

**SUNCOR ENERGY INC.**

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# ANNUAL INFORMATION FORM

Dated February 28, 2014



## ANNUAL INFORMATION FORM DATED FEBRUARY 28, 2014

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## ADVISORIES

In this Annual Information Form (AIF), references to “we”, “our”, “us”, “Suncor” or “the company” mean Suncor Energy Inc., its subsidiaries, partnerships and joint arrangements, unless the context otherwise requires. References to the “Board of Directors” or the “Board” mean the Board of Directors of Suncor Energy Inc.

All financial information is reported in Canadian dollars, unless otherwise noted. Production volumes are presented on a working-interest basis, before royalties, unless otherwise noted. Certain amounts in prior years may have been reclassified to conform to the current year’s presentation.

References to our 2013 audited Consolidated Financial Statements mean Suncor’s audited Consolidated Financial Statements prepared in accordance with Canadian generally accepted accounting principles (GAAP), which is within the framework of International Financial Reporting Standards (IFRS), the notes and the auditors’ report, as at

and for each year in the two-year period ended December 31, 2013. References to our MD&A mean Suncor’s Management’s Discussion and Analysis, dated February 24, 2014.

This AIF contains forward-looking information based on Suncor’s current expectations, estimates, projections and assumptions. This information is subject to a number of risks and uncertainties, including those discussed in this document in the Risk Factors section, many of which are beyond the company’s control. Users of this information are cautioned that actual results may differ materially. Refer to the Advisory – Forward-Looking Information section of this AIF for information on other risk factors and material assumptions underlying our forward-looking information.

Information contained in or otherwise accessible through Suncor’s website [www.suncor.com](http://www.suncor.com) does not form a part of this AIF and is not incorporated into the AIF by reference.

## GLOSSARY OF TERMS AND ABBREVIATIONS

### Common Industry Terms

#### Products

**Hydrocarbons** are solids, liquids or gas made up of compounds of carbon and hydrogen, in varying proportions.

**Crude oil** is a mixture of pentanes (lighter hydrocarbons) and heavier hydrocarbons that exists in the liquid phase in reservoirs and remains liquid at atmospheric pressure and temperature. Crude oil may contain small amounts of sulphur and other non-hydrocarbons, but does not include liquids obtained in the processing of natural gas.

**Bitumen or heavy crude oil** is a naturally occurring viscous mixture, consisting mainly of pentanes and heavier hydrocarbons, which may not be recoverable at a commercial rate in its naturally occurring viscous state through a well without using enhanced recovery methods. After it is extracted, bitumen or heavy crude oil may be upgraded into crude oil and other petroleum products.

**Brent** is a blend of light, sweet crudes sourced from the North Sea used as a global price benchmark for internationally traded crude oil.

**Conventional crude oil** is crude oil produced through wells by standard industry recovery methods.

**Oil sands** are naturally occurring deposits of sand or sandstone, or other sedimentary rocks that contain bitumen.

**Synthetic crude oil (SCO)** is a mixture of hydrocarbons derived by upgrading bitumen from oil sands. Yields of SCO from Suncor's upgrading processes are approximately 80% of bitumen feedstock input, and may vary depending on the source of bitumen. SCO may contain sulphur or other non-hydrocarbon compounds and has many similarities to crude oil. SCO with lower sulphur content is referred to as **sweet synthetic crude oil**, while SCO with higher sulphur content is referred to as **sour synthetic crude oil**.

**Unconventional crude oil** is crude oil produced using techniques other than by standard industry recovery methods.

**Western Canadian Select (WCS)** is a heavy blended crude oil comprised primarily of conventional heavy oil or bitumen blended with diluent that is traded out of Hardisty, Alberta.

**West Texas Intermediate (WTI)** is a type of crude oil used as a benchmark in oil pricing, and is the

underlying commodity of futures contracts on the New York Mercantile Exchange (NYMEX).

**Natural gas** is a mixture of lighter hydrocarbons, which, at atmospheric conditions of temperature and pressure, is in a gaseous state.

**Associated gas** is the gas cap that overlays a crude oil accumulation in a reservoir.

**Conventional natural gas** is natural gas produced from all geological strata, including associated, non-associated and solution gas, but excluding production from unconventional natural gas formations, such as coal bed methane and shale gas.

**Non-associated gas** is an accumulation of natural gas in a reservoir where there is no crude oil.

**Solution gas** is natural gas that is dissolved in crude oil in the reservoir at original reservoir conditions and that is normally produced with the crude oil.

**Natural gas liquids (NGLs)** are hydrocarbon components that can be recovered from natural gas as liquids, including, but not limited to, ethane, propane, butanes, pentanes, plus condensate and small quantities of non-hydrocarbons. **Liquefied petroleum gas (LPG)** includes propane and/or butane.

#### Oil and gas exploration and development processes

**Development costs** are costs incurred to obtain access to reserves and to provide facilities for extracting, treating, gathering and storing the oil and gas from reserves.

**Exploration costs** are costs incurred in identifying areas that may warrant examination and in examining specific areas that are considered to have prospects that may contain oil and gas reserves.

**Field** is a defined geographical area consisting of one or more pools containing hydrocarbons.

**Reservoir** is a porous and permeable subsurface rock formation that contains a separate accumulation of petroleum that is confined by impermeable rock or water barriers and is characterized by a single pressure system.

#### Wells:

**Development wells** are drilled inside the established limits of an oil or gas reservoir, or in close proximity to the edge of the reservoir, to the depth of a stratigraphic horizon known to be productive.

**Dry holes** are exploratory or development wells found to be incapable of producing either oil or gas in sufficient quantities to justify the completion as an oil or gas well.

**Exploratory wells** are drilled in a territory without existing proved reserves, with the intention to discover commercial reservoirs or deposits of crude oil and/or natural gas.

**Infill wells** are drilled between existing development wells to target regions of the reservoir containing bypassed hydrocarbon or to accelerate production.

**Observation wells** are used to monitor changes in a producing field. Parameters being monitored include fluid saturations and reservoir pressure.

**Service wells** are development wells drilled or completed for the purpose of supporting production in an existing field, such as wells drilled for the injection of gas or water.

**Sidetrack wells** are secondary wellbores drilled away from an original wellbore. These enable the bypass of an unusable section of the original wellbore or allow for exploration of a nearby geological feature.

**Stratigraphic wells** are usually drilled without the intention of being completed for production, which are geologically directed to obtain information pertaining to a specific geologic condition, such as **core hole drilling** or **delineation wells** on oil sands leases, or to measure the commercial potential (i.e. size and quality) of a discovery, such as **appraisal wells** for offshore discoveries.

### Production processes

**Capacity** is the annual average output that may be achieved from a processing facility, such as an upgrader, refinery or natural gas processing plant, under ideal operating conditions and in accordance with current design specifications.

**Debottleneck** refers to the process of increasing the production capacity of existing facilities through modification of existing equipment to remove throughput restrictions or inefficiencies.

**Downstream** refers to the refining of crude oil and the selling and distribution of refined products in retail and wholesale channels.

**Feedstock** generally refers either to i) the bitumen required in the production of SCO for the company's oil sands operations, or ii) crude oil and/or other components

required in the production of refined petroleum product for the company's downstream operations.

**In situ** refers to methods of extracting bitumen or heavy crude oil from deep deposits of oil sands by means other than surface mining.

**Overburden** is the material overlying oil sands that must be removed before mining, which consists of muskeg, glacial deposits and sand. Overburden is removed before mining and on an ongoing basis to expose ore.

**Production sharing contracts (PSC)** are a common type of contract, outside North America, signed between a government and a resource extraction company that states how much of the resource produced each party will receive and which parties are responsible for the development and operation of the resource. The resource extraction company does not obtain title to the product; however, the company is subject to the upstream risks and rewards. An **exploration and production sharing agreement (EPSA)** is a form of PSC, which also states which parties are responsible for exploration activities.

**Steam-assisted gravity drainage (SAGD)** is an enhanced oil recovery technology for producing heavy crude oil and bitumen. It is an advanced form of steam stimulation in which a pair of horizontal wells are drilled into the oil reservoir, a few metres above the other. Low pressure steam is continuously injected into the upper wellbore to heat the oil in the reservoir and reduce its viscosity, causing the heated oil to drain into the lower wellbore, from which it is extracted.

**Steam-to-oil ratio (SOR)** is a metric used to quantify the efficiency of an in situ oil recovery process, which measures the cubic metres of water (converted to steam) required to produce one cubic metre of oil. A lower ratio indicates more efficient use of steam.

**Tailings Reduction Operations (TRO<sub>TM</sub>)** is a process involving rapidly converting fluid fine tailings into a solid landscape suitable for reclamation. In this process, mature fine tailings are mixed with a polymer flocculent and deposited in thin layers over sand beaches with shallow slopes. The resulting product is a dry material that is capable of being reclaimed in place or moved to another location for final reclamation.

**Utilization** is the average use of capacity, and includes the impact of planned and unplanned facility outages and maintenance. More specifically, **refinery utilization** is the amount of crude oil and natural gas plant liquids that are run through crude distillation units, expressed as a percentage of the capacity of these units.

**Upgrading** is the two-stage process by which bitumen or heavy crude oil is converted into SCO.

**Primary upgrading**, also referred to as coking or thermal cracking, heats the bitumen in coke drums to remove excess carbon. The superheated hydrocarbon vapours are sent to fractionators where they condense into naphtha, kerosene and gas oil. Carbon residue, or coke, is removed from the coke drums on short intervals and later sold as a byproduct.

**Secondary upgrading**, a purification process also referred to as hydrotreating, adds hydrogen to, and

reduces the sulphur and nitrogen of, primary upgrading output to create sweet SCO and diesel.

**Upstream** refers to the exploration, development and production of conventional crude oil, bitumen or natural gas.

**Reserves and resources**

Please refer to the Definitions for Reserves Data Tables section of the Statement of Reserves Data and Other Oil and Gas Information in this AIF.

## Common Abbreviations

The following is a list of abbreviations that may be used in this AIF:

<u>Measurement</u>		<u>Places and Currencies</u>	
bbl(s)	barrel(s)	U.S.	United States
bbls/d	barrels per day	U.K.	United Kingdom
mbbls/d	thousands of barrels per day	B.C.	British Columbia
mmbbls	millions of barrels	\$ or Cdn\$	Canadian dollars
boe	barrels of oil equivalent	US\$	United States dollars
boe/d	barrels of oil equivalent per day	£	Pounds sterling
mboe	thousands of barrels of oil equivalent	€	Euros
mboe/d	thousands of barrels of oil equivalent per day		
mmboe	millions of barrels of oil equivalent		
mcf	thousands of cubic feet of natural gas	<u>Products, Markets and Processes</u>	
mcf/d	thousands of cubic feet of natural gas per day	WTI	West Texas Intermediate
mcfe	thousands of cubic feet of natural gas equivalent	WCS	Western Canadian Select
mmcf	millions of cubic feet of natural gas	NGL(s)	natural gas liquid(s)
mmcf/d	millions of cubic feet of natural gas per day	LPG	liquefied petroleum gas
mmcfe	millions of cubic feet of natural gas equivalent	SCO	synthetic crude oil
mmcfe/d	millions of cubic feet of natural gas equivalent per day	NYMEX	New York Mercantile Exchange
bcf	billions of cubic feet of natural gas	TSX	Toronto Stock Exchange
GJ	gigajoules	NYSE	New York Stock Exchange
mmbtu	millions of British thermal units	SAGD	steam-assisted gravity drainage
m <sup>3</sup>	cubic metres	PSC	production sharing contract
m <sup>3</sup> /d	cubic metres per day	EPSA	exploration and production sharing agreement
km	kilometres		
MW	megawatts		

Suncor converts certain natural gas volumes to boe, boe/d, mboe, mmboe or mboe/d on the basis of six mcf to one boe. Any figure presented in boe, mboe, mmboe or mboe/d may be misleading, particularly if used in isolation. A conversion ratio of one bbl of crude oil or NGL to six mcf of natural gas is based on an energy equivalency conversion method primarily applicable at the burner tip and does not necessarily represent value equivalency at the wellhead. Given that the value ratio based on the current price of crude oil as compared to natural gas is significantly different from the energy equivalency of 6:1, utilizing a conversion on a 6:1 basis may be misleading as an indication of value.

### Conversion Table<sup>(1)(2)</sup>

1 m <sup>3</sup> liquids = 6.29 barrels	1 tonne = 0.984 tons (long)
1 m <sup>3</sup> natural gas = 35.49 cubic feet	1 tonne = 1.102 tons (short)
1 m <sup>3</sup> overburden = 1.31 cubic yards	1 kilometre = 0.62 miles
	1 hectare = 2.5 acres

(1) Conversion using the above factors on rounded numbers appearing in this AIF may produce small differences from reported amounts.

(2) Some information in this AIF is set forth in metric units and some in imperial units.

## CORPORATE STRUCTURE

### Name and Incorporation

Suncor Energy Inc. (formerly Suncor Inc.) was originally formed by the amalgamation under the *Canada Business Corporations Act* on August 22, 1979, of Sun Oil Company Limited, incorporated in 1923, and Great Canadian Oil Sands Limited, incorporated in 1953. On January 1, 1989, we further amalgamated with a wholly owned subsidiary under the *Canada Business Corporations Act*. We amended our articles in 1995 to move our registered office from Toronto, Ontario, to Calgary, Alberta, and again in April 1997 to adopt our current name, "Suncor Energy Inc.". In April 1997, May 2000, May 2002, and

May 2008 we amended our article to divide the issued and outstanding shares on a two-for-one basis.

Pursuant to an arrangement which was completed effective August 1, 2009, Suncor amalgamated with Petro-Canada to form a single corporation continuing under the name "Suncor Energy Inc.", referred to in this document as the "merger". The arrangement was effected pursuant to the *Canada Business Corporations Act*.

Our registered and head office is located at 150 – 6<sup>th</sup> Avenue S.W., Calgary, Alberta, T2P 3E3.

### Intercorporate Relationships

Material subsidiaries, each of which was owned 100%, directly or indirectly, by the company as at December 31, 2013 are as follows:

Name	Jurisdiction Where Organized	Description
<b>Canadian operations</b>		
Suncor Energy Oil Sands Limited Partnership	Canada	This partnership holds most of the company's oil sands assets.
Suncor Energy Ventures Partnership	Canada	This partnership holds the company's interest in the Syncrude joint arrangement.
Suncor Energy Products Inc.	Canada	A subsidiary of Suncor Energy Inc. that holds interests in the company's energy marketing and renewable energy businesses, and which is a partner of Suncor Energy Products Partnership.
Suncor Energy Products Partnership	Canada	This partnership holds substantially all of the company's Canadian refining and marketing assets.
Suncor Energy Marketing Inc.	Canada	A subsidiary of Suncor Energy Products Inc. through which production from our upstream North American businesses is marketed. Through this subsidiary, we also administer Suncor's energy trading activities, market certain third-party products, procure crude oil feedstock and natural gas for our downstream business, and procure and market NGLs and LPG for our downstream business.
<b>U.S. operations</b>		
Suncor Energy (U.S.A.) Holdings Inc.	U.S.	A subsidiary of Suncor Energy Inc. that holds the majority of our U.S. interests.
Suncor Energy (U.S.A.) Marketing Inc.	U.S.	A subsidiary of Suncor Energy (U.S.A.) Holdings Inc. that procures and markets third-party crude oil, in addition to procuring crude oil feedstock for the company's refining operations.
Suncor Energy (U.S.A.) Inc.	U.S.	A subsidiary of Suncor Energy (U.S.A.) Holdings Inc. through which our U.S. refining and marketing operations are conducted.

Name	Jurisdiction Where Organized	Description
<b>International operations</b>		
3908968 Canada Inc.	Canada	A subsidiary of Suncor Energy Inc. that holds certain of our international interests.
Suncor Energy UK Holdings Ltd.	U.K.	A subsidiary of 3908968 Canada Inc. that holds certain of our U.K. interests.
Suncor Energy UK Limited	U.K.	A subsidiary of Suncor Energy UK Holdings Ltd. through which certain of our operations are conducted in the U.K.
Petro-Canada Cooperative Holding U.A.	The Netherlands	A subsidiary of 3908968 Canada Inc. that holds certain of our international interests.
Petro-Canada (International) Holdings B.V.	The Netherlands	A subsidiary of Petro-Canada Cooperative Holding U.A. that holds certain of our international interests.
Suncor Energy Germany GmbH	Germany	A subsidiary of Petro-Canada (International) Holdings B.V. that holds the majority of our interests in Libya.
Suncor Energy Oil (North Africa) GmbH	Germany	A subsidiary of Suncor Energy Germany GmbH through which the majority of our Libya operations are conducted.

The company's remaining subsidiaries each accounted for (i) less than 10% of the company's consolidated assets as at December 31, 2013, and (ii) less than 10% of the company's consolidated operating revenues for the fiscal year ended December 31, 2013. In aggregate, the remaining subsidiaries accounted for less than 20% of each of (i) and (ii) described above.

## GENERAL DEVELOPMENT OF THE BUSINESS

### Overview

Suncor is an integrated energy company headquartered in Calgary, Alberta, Canada. We are strategically focused on developing one of the world's largest petroleum resource basins – Canada's Athabasca oil sands. In addition, we explore for, acquire, develop, produce and market crude oil and natural gas in Canada and internationally; we transport and refine crude oil, and we market petroleum and petrochemical products primarily in Canada. Periodically, we market third-party petroleum products. We also conduct energy trading activities focused principally on the marketing and trading of crude oil, natural gas and byproducts.

Suncor has classified its operations into the following segments:

### OIL SANDS

Suncor's Oil Sands segment, with assets located in the Wood Buffalo region of northeast Alberta, recovers bitumen from mining and in situ operations and either upgrades this production into SCO for refinery feedstock and diesel fuel, or blends the bitumen with diluent for direct sale to market. The Oil Sands segment includes:

- **Oil Sands Operations** refer to Suncor's wholly-owned and operated mining, extraction, upgrading, in situ and related logistics and storage assets in the Athabasca oil sands. Oil Sands Operations consist of:
  - **Oil Sands Base** operations include the Millennium and North Steepbank mining and extraction operations, integrated upgrading facilities known as Upgrader 1 and Upgrader 2, and the associated infrastructure for these assets – including utilities, energy and reclamation facilities, such as Suncor's tailings management (TRO<sub>TM</sub>) assets.
  - **In Situ** operations include oil sands bitumen production from Firebag and MacKay River and supporting infrastructure, such as central processing facilities, cogeneration units and hot bitumen infrastructure, including an insulated pipeline, diluent import capabilities and a cooling and blending facility, and related storage assets. In Situ production is either upgraded by Oil Sands Base or blended with diluent and marketed directly to customers.
- The Oil Sands segment also includes the company's interests in significant growth projects, including its 40.8% interest in the **Fort Hills** mining project where Suncor is the operator and its 36.8% interest in the **Joslyn** North mining project. The company also holds a 12.0% interest in the **Syncrude** oil sands mining and upgrading operation (these assets were formerly known as Oil Sands Ventures prior to an internal reorganization effective January 1, 2014).

### EXPLORATION AND PRODUCTION

Suncor's Exploration and Production segment consists of offshore operations off the east coast of Canada and in the North Sea, and onshore operations in North America, Libya and Syria.

- **East Coast Canada** operations include Suncor's 37.675% working interest in Terra Nova, which Suncor operates. Suncor also holds a 20% interest in the Hibernia base project and a 19.5% interest in the Hibernia Southern Extension Unit (HSEU), a 27.5% interest in the White Rose base project and a 26.125% interest in the White Rose Extensions, and a 22.729% interest in Hebron, all of which are operated by other companies.
- **International** operations include Suncor's 29.89% working interest in Buzzard and its 26.69% interest in Golden Eagle. Both projects are located in the U.K. sector of the North Sea and are not operated by Suncor. Suncor also holds interests in several exploration licences offshore the U.K. and Norway. Suncor owns, pursuant to Exploration and Production Sharing Agreements (EPSAs), working interests in the exploration and development of oilfields in the Sirte Basin in Libya. As at the date hereof, production in Libya is shut-in due to political unrest. Suncor also owns, pursuant to a Production Sharing Contract (PSC), an interest in the Ebla gas development in the Ash Shaer and Cherrife areas in Syria. Due to political unrest in Syria, the company has declared force majeure under its contractual obligations, and Suncor's operations in Syria have been suspended indefinitely.
- **North America Onshore** operations include Suncor's working interests in unconventional natural gas and crude oil assets in Western Canada, including unconventional oil and natural gas properties in central Alberta and northeast B.C.

## REFINING AND MARKETING

Suncor's Refining and Marketing segment consists of two primary operations:

- **Refining and Supply** operations refine crude oil into a broad range of petroleum and petrochemical products. Eastern North America operations include refineries located in Montreal, Québec and Sarnia, Ontario, and a lubricants business located in Mississauga, Ontario that manufactures, blends and markets products worldwide. Western North America operations include refineries located in Edmonton, Alberta and Commerce City, Colorado. Other Refining and Supply assets include interests in a petrochemical plant, pipelines and product terminals in Canada and the U.S.
- **Downstream Marketing** operations sell refined petroleum products and lubricants to retail, commercial and industrial customers through a combination of company-owned, branded-dealer and other retail stations in Canada and Colorado, a nationwide commercial road transport network in Canada, and a bulk sales channel in Canada.

## CORPORATE, ENERGY TRADING AND ELIMINATIONS

The grouping **Corporate, Energy Trading and Eliminations** includes the company's investments in renewable energy projects, results related to energy marketing, supply and trading activities, and other activities not directly attributable to any other operating segment.

- **Renewable Energy** interests include six operating wind power projects across Canada, two wind power projects under development in Ontario, and the St. Clair ethanol plant in Ontario.
- **Energy Trading** activities primarily involve the marketing, supply and trading of crude oil, natural gas and byproducts, and the use of midstream infrastructure and financial derivatives to optimize related trading strategies.
- **Corporate** activities include stewardship of Suncor's debt and borrowing costs, expenses not allocated to the company's businesses, and the company's captive insurance activities that self-insure a portion of the company's asset base.
- Intersegment revenues and expenses are removed from consolidated results in **Group Eliminations**. Intersegment activity includes the sale of product between the company's segments and the provision of insurance for a portion of the company's operations by the Corporate captive insurance entity.

### Three-Year History

#### 2011

- **Exploration and Production segment created.** In January, Suncor announced organizational changes that included the former International and Offshore and Natural Gas business divisions merging into a single organization primarily focused on conventional production, which includes both onshore and offshore operations.
- **Ethanol plant expansion completed.** In January, Suncor completed the expansion of its ethanol plant in Ontario that doubled production capacity to 400 million litres per year, making it the largest biofuels production facility in Canada.
- **Operations in Libya temporarily suspended.** In response to political unrest and sanctions in Libya in the first quarter of 2011, the operator of the company's joint operations in Libya shut in production. As a result, Suncor suspended all exploration activities and declared force majeure under its EPSAs. Sanctions in Libya were eventually lifted when the country transitioned to a new government, and the operator was able to restart production from all major producing fields in the first quarter of 2012. Production has since been suspended again due to the closure of export terminal operations at eastern Libyan seaports as a result of political unrest that began earlier in 2013.
- **Successful completion of the Upgrader 2 turnaround.** During the second quarter, the company completed the largest turnaround at its Upgrader 2 facilities in the company's history.
- **New wind farms commissioned.** In May, Suncor commissioned the eight-turbine, 20-MW Kent Breeze wind power project in southwest Ontario. In November, Suncor commissioned the 55-turbine, 88-MW Wintering Hills wind power project in southern Alberta.
- **Development of Golden Eagle approved.** In the third quarter, the field development plan for Golden Eagle in the U.K. sector of the North Sea was approved. The company anticipates first production late in 2014 or early 2015.
- **North Steepbank extension.** In December, the company started mining ore from the North Steepbank area at its Oil Sands Base operations. The opening of this new area enabled Suncor to access additional oil sands ore, decrease overall haul distances and decrease mine congestion.
- **Operations in Syria suspended.** In December, sanctions were introduced that resulted in Suncor declaring force majeure under its contractual obligations and suspending its operations in Syria.

Consequently, the company ceased recording all production and revenue associated with its Syrian assets. During 2012, the company received proceeds from risk mitigation instruments related to its Syrian assets, which are subject to a provisional repayment should operations in Syria resume.

#### 2012

- **Steve Williams appointed as Chief Executive Officer.** In December 2011, Steve Williams, formerly Suncor's Chief Operating Officer (COO), was appointed president and a member of the company's Board of Directors, and assumed the role of Chief Executive Officer (CEO) in May 2012. Prior to becoming COO, Mr. Williams served as Executive Vice President, Oil Sands for four years where he was responsible for leading Suncor's Oil Sands Operations through a significant period of growth. Mr. Williams replaced Suncor's long-standing CEO, Rick George, who retired in May after more than 20 years leading the company.
- **TRO™ operations commissioned.** Suncor completed installation of its tailings management assets. Infrastructure included pipes, pumphouses and fluid transfer barges that (a) pump tailings water from extraction plants to a sand placement area, (b) pump mature fine tailings from the sand placement area to a tailings pond for TRO™ treatment, and (c) pump treated water from tailings ponds back to extraction plants for use in production processes. Through the TRO™ process, mature fine tailings are converted more rapidly into a solid material suitable for reclamation. As a result of this new technology and the company's capital investment to reconfigure its tailing operations, Suncor has cancelled plans for five additional tailings ponds.
- **Off-station maintenance at East Coast Canada assets.** The Floating Production, Storage and Offloading (FPSO) vessels for both Terra Nova and White Rose were disconnected and transported to docking facilities for planned maintenance. The water injection swivel was replaced on the Terra Nova FPSO, while the propulsion system was repaired on the White Rose FPSO. The off-station maintenance program for Terra Nova also allowed the company to replace subsea infrastructure to help mitigate hydrogen sulphide (H<sub>2</sub>S) issues.
- **Growth at Firebag.** Production from Firebag increased to 104 mbbbls/d, approximately 75% higher than the 2011 production level. In 2012, Firebag Stage 3 central processing facilities commissioned in the previous year reached design capacity approximately one year after first oil was brought on-stream. Stage 4 central processing facilities were commissioned in 2012, with

first oil from Stage 4 wells brought on-stream in December.

- **MNU commences operations.** The Millennium Naphtha Unit (MNU), which consists of a hydrogen plant and a naphtha hydrotreating unit, began operating at design rates. The MNU has increased sweet SCO production capacity, primarily through a naphtha hydrotreating unit, and stabilized secondary upgrading processes by providing flexibility with respect to hydrogen production during planned or unplanned maintenance.
- **Oil Sands logistics infrastructure brought into service.** The company brought into service the Wood Buffalo pipeline, which connects the company's Athabasca terminal at the base plant in Fort McMurray to other third-party pipeline infrastructure in Cheecham, Alberta, and four storage tanks in Hardisty, Alberta, which are connected to the Enbridge mainline pipeline.
- **Hebron project receives sanction.** In December, the co-owners of the Hebron project located offshore Newfoundland and Labrador sanctioned a development plan that includes a concrete gravity-based structure (GBS) supporting an integrated topsides deck to be used for production, drilling and accommodations. Suncor has a 22.729% interest in the Hebron project. The estimated gross oil production capacity for Hebron is 150 mbbls/d.

## 2013

- **Voyageur oil sands upgrader project not proceeding.** In March, Suncor announced its intention not to proceed with the Voyageur upgrader project in response to changed market conditions that challenged the project economics. Suncor acquired Total E&P Canada Ltd's (Total E&P) interest in the Voyageur Upgrader Limited Partnership (VULP) for \$515 million to gain full control of the partnership's assets, including a hot bitumen blending facility and tankage used to support the company's growing Oil Sands Operations.
- **Majority of conventional natural gas business in Western Canada sold.** Suncor sold its conventional natural gas business in Western Canada with an effective date of January 1, 2013. The transaction closed September 26, 2013 for gross proceeds of \$1 billion, before closing adjustments and other closing costs. The sale included properties situated across multiple regions in Alberta, northeast British Columbia and southern Saskatchewan but excluded the majority of Suncor's unconventional natural gas properties in the Kobes region (Montney formation) of northeast British Columbia and unconventional oil properties in the

Wilson Creek area (Cardium formation) of central Alberta.

- **Suncor constructs wetland.** A reclamation milestone was reached with the planting of a fen wetland at Oil Sands Base. A fen is a specific type of peat-accumulating wetland. Suncor is one of the first companies in the world to attempt reconstruction of this type of wetland. Construction of the fen's underlying watershed was completed in January 2013, and vegetation was planted during the spring and summer.
- **Firebag ramp-up completed.** Firebag production in 2013 increased by approximately 40% over 2012 production levels as Stage 4 ramp-up was completed. The complex ended 2013 achieving daily production rates of approximately 95% of nameplate capacity of 180 mbbls/d.
- **Hot bitumen infrastructure commissioned.** Suncor initiated a number of debottlenecking projects across Oil Sands Operations, including the completion of an insulated bitumen pipeline from Firebag to the Athabasca terminal. Combined with blending facilities at the Athabasca terminal and diluent import capabilities, Suncor increased the takeaway capacity of bitumen and unlocked production in mining.
- **Fort Hills project sanctioned.** In October, Suncor and project co-owners agreed unanimously to proceed with the Fort Hills oil sands mining project. The project is scheduled to produce first oil by the fourth quarter of 2017 and is expected to achieve 90% of its planned production capacity of 180 mbbls/d (73 mbbls/d net to Suncor) within its first year.
- **Libya production shut in.** Export terminal operations at Libyan seaports were closed during the latter half of 2013 due to political unrest in the country. Production was shut in during this period; however, Suncor was able to continue progress on its exploration program.
- **Rail offloading facility complete.** Construction of a rail offloading facility to enable receipt of inland crudes at the Montreal refinery was completed in the fourth quarter of 2013. The Montreal refinery received its first shipment in early December with volumes expected to increase to approximately 35 mbbls/d in the first quarter of 2014.
- **Successful completion of Upgrader 1 turnaround.** Suncor successfully executed planned maintenance across its operations, including a seven-week turnaround at Upgrader 1, which was the largest turnaround in the company's history. The next scheduled turnaround at Oil Sands Operations is not until 2016.

## NARRATIVE DESCRIPTION OF SUNCOR'S BUSINESSES

### Oil Sands

For a discussion of the environmental and other regulatory conditions, and competitive conditions and seasonal impacts affecting our Oil Sands segment, refer to the Industry Conditions and Risk Factors sections of this AIF.

### Oil Sands Base Operations

Our integrated Oil Sands Base operations, located in the Wood Buffalo region of northeast Alberta, involve numerous activities:

- **Mining and Extraction**

After overburden is removed, open-pit mining operations use shovels to excavate oil sands bitumen ore, which is trucked to sizers and breaker units that reduce the size of the ore. Next, a slurry of hot water, sand and bitumen is created and delivered via a pipeline to extraction plants. The raw bitumen is separated from the slurry using a hot water process that creates a bitumen froth. Naphtha is added to the bitumen froth to form a diluted bitumen, which is subsequently sent to a centrifuge plant that removes most of the remaining impurities and minerals. Coarse tailings produced in this process are placed directly into mine sand dump areas.

- **Upgrading**

After the diluted bitumen is transferred to upgrading facilities, the naphtha is removed and recycled to be used again as diluent in extraction processes. Bitumen is upgraded through a coking and distillation process. The upgraded product, referred to as sour SCO, is either sold or upgraded further into sweet SCO by removing sulphur and nitrogen using a hydrotreating process. In addition to sweet and sour SCO, upgrading processes also produce diesel and other byproducts.

- **Utilities**

Process water is used in extraction processes and then recycled. Steam and electricity are generated through facilities on site. Steam required for operations is generated by a cogeneration unit or coke-fired boilers. Electricity is generated by turbine generators, some of which are part of the Oil Sands Base cogeneration unit, or provided by cogeneration units at Firebag.

- **Maintenance**

In the normal course of operations, Suncor regularly conducts planned maintenance events at its facilities. Large, planned maintenance events, which require units to be taken offline to be completed, are often referred to as turnarounds. Turnaround maintenance provides opportunities for both preventive maintenance and

capital replacement, which are expected to improve reliability and operational efficiency. Production however, is impacted during the turnaround cycle. Planned maintenance events generally occur on routine cycles, determined by historical operating performance, recommended usage factors or regulatory requirements. A turnaround typically involves shutting down the unit, inspecting it for wear or other damage, repairing or replacing components, and then restarting the unit.

- **Reclamation**

Mining processes disturb areas of land that must be reclaimed. Land reclamation activities involve soil salvage and replacement, wetlands research, the protection of fish, waterfowl and other wildlife and re-vegetation.

The extraction process produces tailings that are a mixture of water, clay, sand and residual bitumen. Suncor has developed a tailings management approach, known as TRO™. TRO™ is expected to accelerate and improve the company's tailings management processes, eliminate the need for new tailings ponds at existing mining operations, and, in the years ahead, reduce the number of tailings ponds presently in operation.

### Oil Sands Base Assets

#### Mining and Extraction

Suncor pioneered the commercial development of the Athabasca oil sands beginning in 1962, achieving first production in 1967. The original mining area is essentially depleted, and, for several years, bitumen was mined almost exclusively from the Millennium area, which began production in 2001. The company began mining from the North Steepbank area in 2011. During 2013, the company mined approximately 151 million tonnes of bitumen ore (2012 – 151 million tonnes). During 2013, Suncor processed an average of 270 mbbls/d of mined bitumen in its extraction facilities (2012 – 266 mbbls/d).

#### Upgrading

Suncor's upgrading facilities consist of two upgraders – Upgrader 1, which has a primary upgrading capacity of approximately 110 mbbls/d of SCO, and Upgrader 2, which has a primary upgrading capacity of approximately 240 mbbls/d of SCO. Suncor's secondary upgrading facilities consist of three hydrogen plants, three naphtha hydrotreaters, two gas oil hydrotreaters, one diesel hydrotreater and one kero hydrotreater.

During 2013, Suncor averaged 283 mbbls/d of upgraded (SCO and diesel) production, sourced from bitumen

provided by both mining and extraction and in situ operations.

#### Other Mining Leases

Suncor owns several other oil sands leases, including those known as Voyageur South and Audet, which it believes can be developed using mining techniques. Suncor undertakes exploratory drilling programs on such leases from time-to-time, as part of its mine replacement projects. Suncor holds a 100% working interest in both Voyageur South and Audet.

The Voyageur South project is in the early stages of planning and the development timing for the project is currently under assessment. Development options are currently being prepared for review in 2014.

#### **In Situ Operations**

Suncor's In Situ operations, Firebag and MacKay River, use SAGD technology to produce bitumen from oil sands deposits that are too deep to be mined economically.

- **The SAGD process**

The SAGD process requires drilling pairs of horizontal wells with one located above the other. To help reduce land disturbance and improve cost efficiency, well pairs are drilled from multi-well pads. Steam is injected into the upper well to create a high-temperature steam chamber underground. This process reduces the viscosity of the bitumen, allowing heated bitumen and condensed steam to drain into the bottom well and flow up to the surface aided by subsurface pumps or circulating gas.

- **Central processing facilities**

The bitumen and water mixture is pumped to separation units at central processing facilities, where the water is removed from the bitumen, treated and recycled for use in steam generation. To facilitate shipment, In Situ operations blend diluent with the bitumen, or transport it on an insulated pipeline as hot bitumen. The bitumen is either upgraded at Oil Sands Base upgrading facilities or blended with internally produced or imported diluent, and sold directly to market.

- **Power and steam generation**

Once Through Steam Generators (OTSGs) are powered by both natural gas and gas vapours recovered at central processing facilities. Cogeneration units are energy-efficient systems, which use natural gas combustion to power turbines that generate electricity and steam used in SAGD operations. Excess electricity

generation from cogeneration units is used at Oil Sands Base facilities or sold to the power grid.

- **Maintenance and feedstock supply**

Central processing facilities, steam generation units and well pads are all subject to routine inspection and maintenance cycles.

SAGD production volumes are impacted by reservoir quality and the capacity of central processing facilities and steam generation units to process liquids and generate steam. As with conventional oil and gas properties, SAGD wells will experience natural production declines after several years. In an effort to maintain bitumen supply, Suncor drills new wells from existing well pads or develops and constructs new well pads.

#### **In Situ Assets**

##### Firebag

Production from Suncor's Firebag operations commenced in 2004. Suncor's Firebag complex consists of four central processing facilities with total bitumen processing capacity of approximately 180 mbbbls/d. Actual production from Firebag varies based on steaming and ramp-up periods for new wells, planned and unplanned maintenance, reservoir conditions and other factors.

As at December 31, 2013, Firebag had nine well pads in operation with 119 SAGD well pairs and 18 infill wells either producing or on initial steam injection. Central processing facilities have been designed to be flexible as to which well pads supply bitumen. Steam generated at the various facilities can be used at multiple well pads. In addition, Firebag includes five cogeneration units that generate steam, which are capable of producing 425 MW of electricity made up of Firebag site power load of 110 MW and exports of 315 MW. There are also 13 OTSGs at the site for additional steam generation.

As of December 31, 2013, the cumulative SOR at Firebag was 3.3 (2012 – 3.4).

##### MacKay River

Production from MacKay River commenced in 2002. As at December 31, 2013, MacKay River included six well pads with 74 well pairs either producing or on initial steam injection. The MacKay River central processing facilities have bitumen processing capacity of approximately 30 mbbbls/d. A third party owns the on-site cogeneration unit that is used to generate steam and electricity which Suncor operates under a commercial agreement. There are also four OTSGs at the site for additional steam generation. The company has commenced a debottlenecking project of existing central processing facilities that is expected to

increase existing bitumen processing capacity to approximately 38 mbbbls/d by 2015.

As at December 31, 2013, the cumulative SOR at MacKay River was 2.6 (2012 – 2.5).

Suncor has regulatory approval for additional bitumen production from MacKay River and adjacent Dover lands, and is currently evaluating an expansion to increase bitumen processing capacity through an additional central processing facility. Suncor continues to work towards a 2014 sanction decision of an additional central processing facility at MacKay River, which is targeted to have an initial design capacity of approximately 20 mbbbls/d and first oil in 2017.

#### **Other In Situ Leases**

Suncor owns several other oil sands leases, including those known as Meadow Creek, Lewis, Chard and Kirby. Suncor believes these leases can be developed using in situ techniques on which it may undertake exploratory drilling. In 2013, Suncor drilled 50 core holes at Lewis and 66 gross core holes at Meadow Creek. Plans for winter 2014 drilling include an additional 55 core holes at Lewis and 37 core holes at Meadow Creek. Suncor holds a 100% working interest in Lewis and a 75% working interest in Meadow Creek.

Starting with Meadow Creek, Suncor is commencing a greenfield growth plan with a concept to grow new In Situ reservoirs using a replication strategy to build standardized surface facilities, well pads and infrastructure on a program basis. The winter exploratory drilling programs are designed to identify sufficient resources to fill facilities associated with the replication strategy.

#### **Oil Sands Joint Arrangements**

##### **Syncrude**

Suncor holds a 12% interest in the Syncrude joint arrangement, located near Fort McMurray, which includes mining operations at Mildred Lake North and Aurora North. Syncrude also has regulatory approval to develop the Aurora South oil sands mining leases. In 2012, the Syncrude co-owners announced a plan to develop two mining areas adjacent to the current mine, subject to final sanctioning and regulatory approvals, which would consequently extend the life of Mildred Lake by approximately ten years. The plan proposes to use existing mining and extraction facilities. Syncrude expects to make regulatory applications for these areas in 2014.

Syncrude began producing in 1978 and is operated by Syncrude Canada Ltd. (SCL). In 2006, SCL entered into a comprehensive management services agreement with Imperial Oil Resources (Imperial Oil) to provide operational, technical and business management services. This

agreement has an initial term of ten years and includes renewal provisions.

Syncrude mining operations use truck, shovel and pipeline systems, similar to those at Oil Sands Base. Extraction and upgrading technologies at Syncrude are similar to those used at Oil Sands Base, with the exception that Syncrude uses a fluid coking process that involves the continuous thermal cracking of the heaviest hydrocarbons. At Mildred Lake, electricity is provided by a utility plant fuelled by off-gas from upgrading operations and natural gas. At Aurora North, Syncrude operates two 80-MW gas turbine power plants.

Syncrude produces a single sweet synthetic light crude product. Marketing of this product is the responsibility of the individual co-owners.

Land reclamation activities are similar to those at Oil Sands Base; however, certain aspects of the tailings management processes are different. Syncrude's tailings plan uses the following: freshwater capping, a composite tails mixture of fine tails and gypsum, and plans for centrifuge technology that separates water from tailings.

In 2013, Suncor's share of Syncrude production averaged 32 mbbbls/d (2012 – 34 mbbbls/d).

##### **Fort Hills**

Fort Hills is an oil sands mining area comprising leases on the east side of the Athabasca River, north of Oil Sands Base operations. Designs for the Fort Hills mining project plan for 180 mbbbls/d of bitumen production (gross). Suncor originally acquired a 60% working interest in Fort Hills through the merger with Petro-Canada, but disposed of 19.2% as part of transactions with Total E&P. Suncor now holds a 40.8% working interest in the Fort Hills project. Suncor is the contract operator for the Fort Hills project. The company's share of the post-sanction project costs are estimated to be \$5.5 billion. Approximately 15% of the company's 2014 capital budget has been allocated to this project. Project activities in 2014 are expected to focus on detailed engineering, procurement and ramp-up of field construction activities.

##### **Other Assets**

Joslyn is the oil sands mining area comprising leases southwest of Fort Hills and on the west side of the Athabasca River. Total E&P is the operator. Preliminary designs for the Joslyn North mining project plan for 157 mbbbls/d of bitumen production (gross). Suncor acquired a 36.75% working interest in this asset as a result of transactions with Total E&P. Suncor plans to provide an update on the targeted timing for a sanction decision on the Joslyn project when available.

## New Technology

Technology is a fundamental component to Suncor's business. Suncor has pioneered commercial oil sands development and continues to advance technology through innovation and collaboration to improve efficiencies, lower costs and increase environmental performance.

Suncor is working on several new in situ technology projects that are proceeding with the next phase of field testing. Examples of Suncor's new technology projects include:

- Electric Submersible Pumps (ESPs) – Suncor is working with vendors on technology to improve equipment performance in SAGD.
- N-SOLV<sup>TM</sup> – Evolving toward waterless recovery by using a warm solvent to extract bitumen efficiently, sustainably and economically.
- Steam Assisted Gravity Drainage Less Intensive Technology Enhanced (SAGD LITE) – Field trials are underway to evaluate technologies such as solvent addition, surfactant addition, flow control devices and injection control devices to improve cost, SORs, and timely recovery and productivity.

Suncor is a member of Canada's Oil Sands Innovation Alliance (COSIA) which is a group of oil sands producers

brought together to accelerate environmental performance improvement through collaboration.

## Sales of Principal Products

Primary markets for SCO and bitumen production from Suncor's Oil Sands segment, which is sold to and subsequently marketed by Suncor's Energy Trading business, include refining operations in Alberta, Ontario, the U.S. Midwest and the U.S. Rocky Mountain regions. Commencing in 2014, production is also being sold to markets in the U.S. Gulf Coast. Diesel production from upgrading operations is sold primarily in Western Canada, marketed by Suncor's Refining and Marketing business.

For bitumen production from In Situ operations, Suncor's marketing strategy allows it to take advantage of changes in market conditions by either: a) upgrading the bitumen directly at our Oil Sands Base facilities; b) upgrading bitumen at Suncor's Edmonton refinery; or c) selling diluted bitumen directly to third parties. Increased bitumen sales may also be required during outages of upgrading facilities. During 2013, approximately 55% or 94 mbbls/d (2012 – 63% or 83 mbbls/d) of In Situ bitumen production was processed by Oil Sands Base upgrading facilities.

Sales Volumes and Operating Revenues – Principal Products	2013		2012	
	mbbls/d	% operating revenues	mbbls/d	% operating revenues
Sweet – Light sweet SCO and diesel (including Syncrude)	147.9	43	152.7	47
Sour – Light sour SCO and bitumen	241.9	51	205.6	48
Non-proprietary, byproducts and other operating revenues <sup>(1)</sup>	n/a	6	n/a	5
	389.8		358.3	

(1) Operating revenues include sales of non-proprietary volumes, primarily third-party diluent purchased to support sales of bitumen that is required when the company is unable to meet diluent demands internally, as well as revenues associated with excess power from cogeneration units.

In the normal course of business, Suncor enters into long-term strategic sales agreements for its proprietary sour SCO, which contain varying terms with respect to pricing, volume, expiry and terminations.

### Distribution of Products

Production from Oil Sands Operations is gathered into Suncor's Fort McMurray facilities at the Athabasca Terminal, which is operated by Enbridge Inc. (Enbridge). Suncor has various arrangements with Enbridge at this facility to store SCO, diluted bitumen and diesel. Product moves from the Athabasca Terminal in the following ways:

- To Edmonton via the Oil Sands pipeline, which is owned by Suncor and operated by the Refining and Marketing segment. At Edmonton, the product is sold to local refiners, including Suncor, or transferred onto the Enbridge Mainline system or the TransMountain Pipeline system.
- To Cheecham, Alberta, on the Enbridge Athabasca Pipeline or the Enbridge Wood Buffalo Pipeline. From Cheecham, the Enbridge Athabasca Pipeline continues to Hardisty, Alberta.
- To Edmonton via the Enbridge Waupisoo Pipeline, originating at Cheecham.

From Hardisty, where Suncor owns storage capacity with additional capacity under contract, Suncor has various options for delivering product to customers:

- To Suncor's Commerce City refinery via the Express and Platte pipelines. Suncor owns and operates a pipeline that is connected to the Commerce City refinery, which originates from the Guernsey, Wyoming station that is part of the Platte pipeline.
- To Suncor's Sarnia refinery on the Enbridge Mainline and Lakehead systems.
- Through the Enbridge Mainline system, crude can reach most major refining hubs via the Enbridge Mainline, Express/Platte and Keystone pipeline systems.

Commencing in 2014, Suncor has begun shipping heavy crude on TransCanada's Gulf Coast Pipeline, providing the company with more than 50 mbbbls/d of heavy crude shipping capacity to the U.S. Gulf Coast and another outlet for the growing bitumen production at Firebag.

Natural gas is used in the production of SCO and bitumen. Natural gas is delivered to Oil Sands Base and In Situ facilities via the Nova Gas Transmission Limited (NGTL) pipeline system. Suncor also transports natural gas to Oil Sands Base facilities on the company-owned and operated Albersun Pipeline, which extends approximately 300 km south of Oil Sands Base facilities and is connected to the NGTL.

Oil Sands Base facilities are readily accessible by public road. MacKay River facilities are accessible by a combination of public and private roads. Firebag facilities are accessible by air and private road.

### Royalty Agreements

#### Oil Sands Base and Syncrude

New oil sands projects are subject to the New Royalty Framework issued by the Government of Alberta, and regulated by the *Oil Sands Royalty Regulation 2009* (OSRR 2009), and supporting regulations, which were approved in 2008.

As part of the New Royalty Framework, Suncor entered into the Suncor Royalty Amending Agreement (Suncor RAA) with the Government of Alberta in January 2008 for royalties pertaining to its Oil Sands Base operations. For the period from January 1, 2010 to December 31, 2015, royalty rates are based on a sliding scale (depending on the Canadian dollar equivalent for WTI) from 25% to 30% of R – C (Revenue–Cost), where R is gross revenues, net of bitumen quality adjustments and transportation costs, and C is allowable costs including allowable capital expenditures, which excludes substantially all operating and capital expenditures associated with upgrading facilities. The minimum royalty rate is 1.0% to 1.2% of R. In 2013, Suncor incurred royalties at Oil Sands Base mining operations at a rate of 30% of R – C (2012 – 30% of R – C).

In 2008, the Alberta government and the co-owners of Syncrude reached an agreement for the implementation of the New Royalty Framework for the Syncrude project (similar to the Suncor RAA). Under the new terms, Syncrude will continue paying the greater of 1% gross revenue, or 25% of net revenue, until the end of 2015. For 2013, the royalty rate was 25% of net revenue (2012 – 25%). As part of its agreement, Syncrude also exercised its option to transition to a bitumen-based royalty from an SCO-based royalty. In addition, the co-owners of Syncrude agreed to pay an additional royalty of \$975 million over a six-year period starting in 2010, which is contingent on achieving certain production levels.

As part of the implementation of the New Royalty Framework, the Alberta government enacted the BVM Regulations effective January 1, 2009 to determine the value of bitumen for royalty purposes. The Crown notified Suncor that the BVM Regulation would apply to Oil Sands base mining operations for purposes of the Suncor RAA (Suncor BVM). In 2009, Suncor provided notice to the Crown that the Suncor BVM was non-compliant with the Suncor RAA. In December 2010, the Alberta Minister of Energy notified Suncor of the modifications to the Suncor BVM, providing for bitumen quality adjustments not previously recognized and adjustments for transportation.

With respect to the bitumen quality adjustments, Suncor filed a Notice of Commencement of Arbitration with the Alberta government on January 29, 2011 pursuant to the dispute resolution provisions of the Suncor RAA. In December 2013, Suncor reached an agreement with the Alberta government to settle all unresolved royalty issues under the Suncor RAA.

The co-owners of Syncrude also filed a non-compliance notice with the Alberta government, citing that reasonable adjustments in the determination of the bitumen value were not considered by the government. In December 2013, the Syncrude co-owners reached an agreement with the Alberta government to settle unresolved royalty issues under the Syncrude RAA.

Under these modified settlement agreements, certain provisions of the BVM Regulation, including the floor price limitations, will apply for the term. A floor price is applied when prices for Canadian heavy oil are discounted relative to heavy oil prices at the U.S. Gulf Coast.

In 2013, Oil Sands royalties (excluding Syncrude) were approximately 7% (2012 – 6%) of Oil Sands operating revenues (excluding Syncrude). In 2013, Suncor incurred royalties on Syncrude operations averaging approximately 5% of Syncrude operating revenues before royalties (2012 – 6%).

Beginning on January 1, 2016, Suncor's Oil Sands Base and Syncrude operations will be subject to the generic royalty regime that is currently in place for all other oil sands royalty projects in Alberta, including Suncor's In Situ operations, as described below.

#### In Situ

Under the New Royalty Framework, royalties on Suncor's Firebag and MacKay River projects are based on a sliding-scale rate of 25% to 40% of R – C, subject to a minimum royalty within a range of 1% to 9% of R. Revenues used in royalty formulas are driven primarily by benchmark prices for WCS, while sliding-scale percentages in royalty formulas depend on prices for WTI from Cdn\$55/bbl to the maximum rate at a WTI price of Cdn\$120/bbl. A project remains subject to the minimum royalty (the pre-payout phase) until the project's cumulative gross revenues exceed its cumulative costs, including an annual investment allowance (the post-payout phase). In 2013, Suncor incurred minimum royalties at a rate of 7% of R for

MacKay River (2012 – 6% of R) and royalties averaging 7% of R for Firebag (2012 – 6%), which continues in the pre-payout phase.

#### **Exploration and Production**

*For a discussion of the environmental and other regulatory conditions, competitive conditions, foreign operations and seasonal impacts affecting our Exploration and Production segment, refer to the Industry Conditions and Risk Factors sections of this AIF.*

#### **East Coast Canada – Assets and Operations**

Based in St. John's, Newfoundland and Labrador, this business includes interests in three producing fields and future developments and extensions. Suncor is also involved in exploration drilling for new opportunities. Suncor is the only company in this region with interests in every field currently in production.

#### Terra Nova

The Terra Nova oilfield is approximately 350 km southeast of St. John's. Terra Nova was discovered in 1984, and was the second oilfield to be developed offshore Newfoundland and Labrador. Operated by Suncor, the production system uses an FPSO vessel that is moored on location, and has gross production capacity of 180 mbbbls/d (net 68 mbbbls/d to Suncor) and oil storage capacity of 960 mbbbls. Terra Nova was the first harsh environment development in North America to use a FPSO vessel. Actual annual production levels are lower than production capacity, reflecting current reservoir capability, including natural declines, gas and water injection and production limits, and asset and facility reliability. Production from Terra Nova began in January 2002. At December 31, 2013, there were 29 wells: 17 oil production wells, nine water injection wells and three gas injection wells. In 2013, Suncor's share of Terra Nova production averaged 14 mbbbls/d compared to 9 mbbbls/d in 2012. The company commenced off-station maintenance of the Terra Nova facility in late September 2013 for ten weeks to repair a mooring chain and perform preventive maintenance on the remaining eight chains. Production was reinstated in early December 2013. In comparison, the facility was off-line for approximately 27 weeks in 2012 as part of a dockside planned maintenance program.

Current development plans for Terra Nova include a production well and a water injection well that the company anticipates will add production and mitigate natural declines from the reservoir. In addition, in 2014, the company plans to perform maintenance on several production wells and to reinstate a second flowline to a subsea drill centre.

Field production is transported by shuttle tanker from the FPSO and either delivered directly to customers (if tanker schedules permit) or to the Newfoundland transshipment terminal in Placentia Bay, where it is subsequently loaded onto tankers for transport to markets in Eastern Canada or the U.S. Suncor has a 14% ownership interest in the transshipment facility and is part of a group of companies that share the operation of marine transportation assets for East Coast Canada.

#### **Hibernia and the Hibernia Southern Extension Unit (HSEU)**

The Hibernia oilfield, encompassing the Hibernia and Ben Nevis Avalon reservoirs, is approximately 315 km southeast of St. John's and was the first field to be developed in the Jeanne d'Arc Basin. Operated by Hibernia Management and Development Company Ltd., an ExxonMobil-managed company, the production system is a fixed GBS that sits on the ocean floor, and has gross production capacity of 230 mbbbls/d (net 46 mbbbls/d to Suncor) and oil storage capacity of 1,300 mbbbls. Actual production levels are lower, reflecting current reservoir capability, including natural declines, gas and water injection and production limits, and asset and facility reliability. Hibernia commenced production in November 1997. At December 31, 2013, there were 62 wells in operation: 37 oil production wells, 14 single-zone water injection wells, six dual-zone water injection wells and five gas injection wells. In 2013, Suncor's share of Hibernia production averaged 27 mbbbls/d (2012 – 26 mbbbls/d). Hibernia uses the same transshipment terminal and similar system of shuttle tankers that are used for Terra Nova.

In 2010, final agreements were signed between the Hibernia co-venturers and the Government of Newfoundland and Labrador that established the fiscal, equity and operational principles for the development of the HSEU. During 2011, the first two development wells were completed from the GBS platform and are producing oil. The third production well has been drilled and will commence oil production in the first quarter of 2014. Current development plans include drilling up to two additional production wells from the GBS platform and six water injection wells in a subsea, excavated drill centre. Subsea infrastructure was installed in late 2013 and drilling of the first subsea water injection well began in early 2014. The number of production and injection wells required may be revised as the development proceeds and uncertainties

regarding reservoir capability are resolved. Production from the HSEU is not expected to reach higher rates until 2015 when several planned water injection wells are completed.

#### **White Rose and the White Rose Extensions**

White Rose is approximately 350 km southeast of St. John's. Operated by Husky Oil Operations Limited, White Rose uses a FPSO vessel and has gross production capacity of 140 mbbbls/d (net 39 mbbbls/d to Suncor) and oil storage capacity of 940 mbbbls. Actual annual production levels are lower than production capacity, reflecting current reservoir capability, including natural declines, gas and water injection and production limits, and asset and facility reliability. Production from White Rose began in November 2005. At December 31, 2013, there were 33 wells in operation: 15 oil production wells, 15 water injection wells and three gas storage wells. In 2013, Suncor's share of White Rose production averaged 15 mbbbls/d (2012 – 12 mbbbls/d). White Rose uses the same transshipment terminal and the same system of shuttle tankers that are used for Hibernia and Terra Nova.

In 2007, the White Rose co-venturers signed an agreement with the Province of Newfoundland and Labrador for the development of the White Rose Extensions, which include the South White Rose Extension, North Amethyst and West White Rose satellite fields. In May 2010, first oil was achieved in North Amethyst, and development drilling is ongoing. Development of the West White Rose field has been divided into two stages. The first stage was approved in 2010 and first oil was achieved in 2011.

In October 2013, the co-owners reached an agreement with the Government of Newfoundland and Labrador which resulted in amendments to the terms of the 2007 White Rose Expansion Project Framework Agreement, enabling the second stage development of West White Rose using a Wellhead Platform. Detailed engineering design for this project is currently underway and sanction is planned for the second half of 2014. Development of the South White Rose Extension began in 2013 with the installation of subsea gas injection infrastructure. Oil production and water injection infrastructure will be installed in 2014, and first oil for the South White Rose Extension is expected in late 2014 or early 2015.

#### **Hebron**

Discovered in 1980, the Hebron oilfield is located 340 km southeast of St. John's. The project is operated by ExxonMobil Canada Properties. On December 31, 2012, the Hebron co-owners announced project sanction. Development of the Hebron project includes the construction of a concrete GBS that supports an integrated topsides deck to be used for production, drilling and accommodations. Development plans include 1,200 mbbbls of oil storage capacity and 52 well slots with a gross oil

production capacity of 150 mbbls/d (net 34 mbbls/d to Suncor). Detailed engineering and construction of the gravity-based structure and topsides fabrication progressed according to plan during 2013. First oil is expected in 2017. Suncor's share of the post-sanction project cost estimate provided by the project operator is approximately \$2.8 billion.

#### **Other Assets**

The Ballicatters discovery, located 22 km northeast of Hibernia, was completed in 2011 and is comprised of gas and oil. The licence is operated by Suncor. In September 2013, the Canada-Newfoundland and Labrador Offshore Petroleum Board issued two Significant Discovery Licences (SDL 1051 and SDL 1052) for the Ballicatters discovery. Potential options to commercialize the discovery are currently being evaluated.

Suncor continues to pursue opportunities offshore Newfoundland and Labrador. The company holds interests in 50 other significant discovery licences and six other exploration licences offshore Newfoundland and Labrador.

#### **International – Assets and Operations**

##### **Buzzard – North Sea**

The Buzzard oilfield is located in the Outer Moray Firth, 95 km northeast of Aberdeen, Scotland. Operated by Nexen Petroleum U.K. Limited, a subsidiary of China National Offshore Oil Corporation Limited (CNOOC), the Buzzard facilities have gross installed production capacity of approximately 220 mbbls/d (net 66 mbbls/d to Suncor) of oil and 80 mmcf/d (net 24 mmcf/d to Suncor) of natural gas. Actual annual production levels are lower than production capacity, reflecting current reservoir capability, including natural declines, water injection limits, gas and water production limits, and asset and infrastructure reliability. Buzzard commenced production in January 2007. Buzzard consists of four bridge-linked platforms supporting wellhead facilities, production facilities, living quarters and utilities, and sulphur handling. At December 31, 2013, there were 45 wells: 33 oil and gas production wells and 12 water injection wells. In 2013, Suncor's share of Buzzard production averaged 56 mboe/d (2012 – 48 mboe/d).

In 2013, Buzzard completed three oil and gas development wells, which are intended to mitigate natural declines from the reservoir.

Crude oil is transported via the third-party operated Forties Pipeline System to the Kinneil terminal in Scotland. Natural gas is transported via the third-party operated Frigg Pipeline to the St. Fergus gas terminal in Scotland.

##### **Golden Eagle – North Sea**

During 2011, Golden Eagle received regulatory approval from the U.K. Department of Energy and Climate Change and sanction from the project's co-owners. This development is approximately 20 km north of the Buzzard oilfield and consists of the unitization of the Peregrine, Hobby, Golden Eagle and Solitaire areas. The development plan incorporates a combined production, utilities and accommodation platform, linked to a separate wellhead platform, with an initial gross production capacity of 70 mboe/d (net 19 mboe/d to Suncor) from 21 development wells. In 2013, activities at Golden Eagle included the installation of two platform jackets and the wellhead topside, and the start of development drilling. The operator, Nexen Petroleum U.K. Ltd., estimates that the gross development cost will be £2 billion (Cdn\$3.5 billion) and £0.6 billion (Cdn\$1.0 billion) net to Suncor. First production is expected late in 2014 or early 2015. The Golden Eagle co-owners also hold adjacent exploration licences and continue to explore the region.

##### **Other Assets – North Sea**

Other Suncor exploration and appraisal initiatives in the North Sea include:

- Beta discovery (Norway) – Suncor is the operator for the PL375, PL375b and PL375c licences, in which it has a 70% interest. The company drilled the first exploration well in early 2010, encountering hydrocarbons. An appraisal well was drilled and tested later in 2010 with positive results. However, a third well drilled into a separate fault block did not encounter hydrocarbons. The company will continue to evaluate the Beta discovery by interpreting 3D seismic data acquired in 2013 and with further drilling starting in 2014. The Beta licences also contain other exploration opportunities.
- Butch discovery (Norway) – In 2011, Centrica plc, the operator for the PL405 licence in which Suncor has a 30% interest, drilled an exploration well resulting in a discovery, followed by a sidetrack well to assess the lateral extent of the hydrocarbons. Early in 2012, a second sidetrack well was attempted but abandoned, due to well instability, before reaching its intended depth. In December 2013, the operator, began drilling the first of two additional wells on the licence to explore for oil in separate fault blocks from the discovery.
- Myrhaug prospect (Norway) – Suncor has a 20% interest in the PL539 licence, operated by Premier Oil plc. The operator has planned an exploration well for late 2014.
- Romeo discovery (U.K.) – During the second half of 2012 and into early 2013, the company was the

operator for an exploration well drilled in Block 30/11c, in which Suncor has a 57.857% interest. Drilling was completed early in 2013 and following evaluation, the well was determined to be non-commercial. No further work on this discovery has been planned.

- Scotney prospect (U.K.) – In 2013, Suncor, as operator, drilled a well in Block 20/05b to comply with a work commitment for the licence, in which it has a 32.86% interest. This well was completed in late April 2013 with no hydrocarbons encountered.
- Lily prospect (U.K.) – During the fourth quarter of 2013, the operator for the P928 20/1S licence, in which Suncor has a 29.89% interest, drilled an exploration well but did not encounter hydrocarbons.
- Blackjack prospect (U.K.) – During the second half of 2013, the operator of the P300 14/26a licence, in which Suncor has a 26.69% interest, conducted a site survey for a planned exploration well, which is scheduled to commence drilling during the first quarter of 2014.

Suncor continues to pursue other opportunities in the North Sea, the Norwegian Sea and the Barents Sea. The company holds interests in 30 exploration licences in the U.K. and Norwegian sectors of these areas.

### Libya

In Libya, Suncor is signatory to seven EPSAs with the Libya National Oil Corporation (NOC). Five of the seven EPSAs contain producing fields and exploration prospects; the remaining two are exploration EPSAs that do not contain producing fields, one of which is being relinquished because the exploration program was not successful. Together, Suncor and the NOC jointly design and implement the development and redevelopment of existing fields in the Sirte Basin. Existing reserves are associated with five separate agreements which contain five primary producing fields. Under the EPSAs, the company pays 100% of the exploration costs, 50% of the development costs and 12% of the operating costs, and recovers these costs through a 12% share of a production cost recovery mechanism. Any petroleum remaining after cost recovery is referred to as excess petroleum, and is shared between Suncor and the NOC based on several factors. Suncor's share of the excess petroleum can range from 4% to 85%. The EPSAs expire on December 31, 2032, but include an initial five-year extension through the end of 2037. In 2013, Suncor's share of production in Libya averaged 21 mbbbls/d, (2012 – 42 mbbbls/d). Libya is a member of the Organization of Petroleum Exporting Countries (OPEC) and is subject to quotas that can affect the company's production in Libya.

For the period from March to September 2011, the operator for the joint operation, Harouge Oil

Operations BV (Harouge), shut in production as a result of political unrest that began in February 2011. In March 2011, Suncor declared force majeure under its EPSAs. Suncor exited development force majeure in December 2011 and exploration force majeure in June 2012, and production resumed to previous rates.

In July 2013, operations in Libya were again disrupted as political unrest resulted in the closure of seaport terminals. Production has been shut in since July 2013 and Suncor has not lifted production or recognized a sale since May 2013. Some seaports, largely on the country's western coast, were reopened in late December 2013, but eastern seaports, including the Ras Lanuf and Es Sider terminals through which Suncor's crude is exported, are still closed. As a result of this extended loss of production and uncertainty on timing of return to operations in Libya, Suncor recorded an after-tax impairment charge of \$101 million against these assets in the fourth quarter of 2013.

Despite the seaport closures, Suncor continued exploration activities in 2013. During the year, two suspended wells and four additional exploration and appraisal wells were completed. Hydrocarbons were discovered in three of the wells, while the other three wells were assessed as dry holes.

During 2013, exploration force majeure extension agreements were signed by NOC and Suncor, relating to the 2011 force majeure situation, extending the exploration period from December 31, 2012 until April 12, 2014. In early 2014, an additional one-year extension to April 12, 2015, was approved by the NOC, with the formal extension agreements to follow later in 2014. The terms of the EPSAs allow for further extensions to be negotiated. The estimated cost of Suncor's remaining exploration work program commitment at December 31, 2013 is US\$349 million.

At December 31, 2013, the company had an outstanding obligation of US\$74 million for a signature bonus relating to Petro-Canada's ratification of the Libyan EPSAs in 2008.

### Syria

In December 2011, amid continuing unrest in Syria, sanctions were introduced and Suncor declared force majeure under its contractual obligations and suspended its operations in the country. Suncor withdrew its expatriate staff and undertook measures to maintain support for its Syrian employees. Consequently, the company has ceased recording all production and revenue associated with its Syrian assets. Since 2011, Suncor has not been able to monitor the status of any of its assets in the country, including whether certain facilities have suffered damages.

Located in the Central Syrian Gas Basin, the Ebla project includes all hydrocarbons in the Ash Shaer and Cherrife

development areas, which cover more than 300,000 acres. Suncor conducts its Syrian operations pursuant to a PSC, under which the company is a co-owner of the Ebla project with the General Petroleum Corporation (GPC). Under the PSC, the company pays 100% of the development costs and recovers these costs from a 40% share of production after deduction for royalties of 12.5%. This petroleum revenue is referred to as Cost Recovery petroleum. The amount by which Cost Recovery petroleum exceeds recoverable cost is referred to as Excess Cost Recovery petroleum; 50% of this amount is due to the GPC and the remaining 50% is shared between Suncor and the GPC according to a profit-sharing schedule. The Ebla PSC expires in April 2035, but includes a five-year extension subject to GPC approval. First commercial gas production from Ebla was achieved in April 2010 and first oil was achieved in December 2010.

The Ebla project comprised six natural gas wells in the Ash Shaer field, a gas gathering and compression station, approximately 80 km of pipeline, and a gas treatment plant. The facility is designed to produce 97 mmcf/d of natural gas, along with related LPG and condensate volumes. The company has a contracted volume of 80 mmcf/d. Natural gas was delivered into the Syrian national gas grid for domestic electrical power generation. The Ebla project also included three crude oil wells.

In 2012, the company recorded an impairment charge against its Syrian assets as a result of the uncertainty about the company's future in the country. Later in the year, the company received proceeds from risk mitigation instruments related to its Syrian assets, which are subject to a provisional repayment should operations in Syria resume and loss of value is determined not to be permanent.

Suncor impaired the remaining carrying value of its Syrian assets in the fourth quarter of 2013, resulting in an after-tax impairment charge of \$422 million, as there has been no resolution of the political situation resulting in rising uncertainty with respect to the company's return to operations. Concurrently, the company recognized risk mitigation proceeds, received in 2012, of \$300 million (\$223 million after-tax) in net earnings. These were previously recorded as a long-term provision.

#### **North America Onshore – Assets and Operations**

The North America Onshore business explores for, develops and produces natural gas, NGLs, crude oil and byproducts in Western Canada. After the merger with Petro-Canada, the strategy for this business focused on liquids-rich and unconventional sources. As a result, the company divested a number of non-core assets in this business area throughout 2010 and early 2011 and, in 2013, sold the

majority of its remaining conventional natural gas business for \$1 billion prior to closing adjustments and other closing costs. Following these disposals, the retained assets produce approximately 3 mboe/d of gas and 2 mbbbl/d of liquids.

Natural gas extracted from the wellhead requires further processing. Suncor currently operates one natural gas processing plant at Wilson Creek (52.17% working interest ownership), with total licensed capacity of 34.6 mmcf/d, (18.1 mmcf/d net). Capacity not utilized by the company's own production is optimized through processing agreements with third-party producers.

Natural gas production from Alberta is typically sold at the Nova Inventory Transfer point (NIT), which is one of the largest natural gas trading hubs in North America. Natural gas at NIT generally receives a daily or monthly average AECO (Alberta) spot price. Natural gas production from B.C. is typically sold at Station 2, part of the Spectra B.C. transmission system, and receives the Station 2 Gas Daily Index price. Suncor holds firm capacity on the TransCanada Pipelines Gas Transmission Northwest Pipeline (GTN). The GTN firm capacity enables Suncor to deliver natural gas to the Pacific Northwest and California markets.

Crude oil production from North America Onshore assets is shipped on pipelines operated by independent pipeline companies. In most sales arrangements, Suncor is responsible for transportation to the point of sale.

In addition, Suncor holds assets that allow the company to explore long-term supply opportunities in northern frontier areas, such as the Arctic Islands.

#### **Sales of Principal Products**

Oil and gas production from East Coast Canada, the North Sea, and from North America Onshore is either marketed by our Energy Trading business, acting as a marketing agent or sold to our Energy Trading business, which then markets the products to customers under direct sales arrangements. Suncor does not typically enter into long-term supply arrangements to sell its production from its Exploration and Production segment. Contracts for these direct sales arrangements are of varied terms, with a majority having terms of one year or less, and incorporate pricing that is generally determined on a daily or monthly basis in relation to a specified market reference price.

In Libya, prior to the shut in of production, crude oil was marketed by the NOC on behalf of Suncor. In Syria, prior to the suspension of operations, the company entered into purchase and sale agreements with the Syrian government for all hydrocarbon production from the Ebla project.

## Exploration and Production Sales Summary:

Sales Volumes	2013		2012	
	mboe/d	% operating revenues	mboe/d	% operating revenues
<b>East Coast Canada</b>				
Crude oil	55.9	40	46.7	33
<b>International</b>				
Crude oil and NGLs	75.2	53	88.5	59
Natural gas	1.2	0	1.0	1
<b>North America Onshore</b>				
Crude oil and NGLs	5.3	3	5.6	3
Natural gas	32.0	4	48.3	4
<b>Total Exploration and Production</b>				
Crude oil and NGLs	136.4	96	140.8	95
Natural gas	33.2	4	49.3	5

**Royalties****East Coast Canada**

The Terra Nova royalty consists of a sliding-scale, basic royalty payable throughout the project's life, with two tiers of incremental royalties, which became payable upon the achievement of specified levels of profitability. The basic royalty is now capped at 10% of gross field revenue, based on the project reaching a specified cumulative production level. The tier one royalty is 30% of net revenue, and became payable in 2005. Net revenue is gross revenue adjusted for eligible operating and capital costs. The tier two royalty, equal to 12.5% of net revenue, became payable in 2008. During 2013, Terra Nova royalties averaged 12% of gross revenue (2012 – 36%) and decreased primarily due to higher deductible costs in 2013.

The Hibernia royalty agreement for production from the original oilfields and the AA Block consists of a sliding-scale gross royalty, two tiers of incremental royalty, and an additional net profits interest (NPI). The basic royalty is now capped at 5% of gross revenue, as the project has reached a specified cumulative production level. The tier one royalty, which became payable in 2009, is 30% of net revenue.

The tier two royalty is 12.5% of net revenue, but has not yet been triggered. Production from the AA Block, which commenced in late 2009, attracts an additional tier three royalty of 12.5% of net revenue. The NPI, which also became payable in 2009, is an additional 10% of net revenue. Limited production from the HSEU began in 2011. The HSEU has a similar royalty structure (gross, tier one and tier two) to that described above for Hibernia. Currently, Suncor is subject to a 5% gross royalty. HSEU production will be subject to an additional tier three royalty that ranges between 2.5% and 7.5% of net revenue,

depending on the price for WTI. The HSEU tier three royalty will coincide with the triggering of the tier one net royalty. During 2013, Hibernia (including the HSEU) royalties and NPI combined to average 36% of gross revenue (2012 – 35%).

The White Rose royalty for the base project consists of a sliding-scale basic royalty payable, with two tiers of incremental royalties, which became payable upon the achievement of specified levels of profitability. The basic royalty is now capped at 7.5% of gross field revenue, based on the base project reaching a specified cumulative production level. The tier one royalty is 20% of net revenue, and became payable in 2007. The tier two royalty, equal to 10% of net revenue, became payable in 2008. The royalty for production from the White Rose Extensions is similar to the base project, except that there is an additional tier three royalty, equal to 6.5% of net revenue, which is payable if WTI is greater than Cdn\$50/bbl. Currently, the White Rose Extensions are only subject to a 2.5% gross royalty. During 2013, total White Rose royalties averaged 16% of gross revenue (2012 – 12%).

**International**

There are no royalties on oil and gas production from the North Sea; however, in the U.K., oil and gas profits are subject to a 62% income tax rate. For operations in Libya and Syria, all government interests, except for income taxes, are presented as royalties.

**North America Onshore**

Royalties for Suncor's North America Onshore production in Alberta are regulated primarily by the Natural Gas Royalty Regulation 2009, and by the Petroleum Royalty Regulation

2009. Royalties for natural gas and oil production are set by a sliding-scale formula ranging from 5% to 36% for natural gas, and 0% to 40% for conventional crude oil. Rates are dependent on well depth, production rates, price, and quality of the natural gas and crude oil. New wells receive an initial maximum rate of 5%, subject to volume and credit caps. In Alberta, costs for gathering, compressing, and processing the provincial government share of gas and NGLs are allowable deductions from gross royalties payable. Royalties for NGLs are determined based on the prescribed reference prices multiplied by flat rates of 30% for propane and butane, and 40% for pentanes.

Royalties for Suncor's North America Onshore production in B.C. are regulated primarily by the Petroleum and Natural Gas Royalty and Freehold Production Tax Regulation. Royalty formulas (rates) for natural gas production are different based on the date the well was drilled. Gas rates start as low as 9%, and are subject to a sliding scale with a maximum royalty rate of 27% as prices increase. B.C. provides royalty adjustments for deep drilling, lower production rates, and unique production methods. In B.C., field expenses (gathering, compression and processing) are allowed as cost of services deductions from gross royalties. Plant processing costs are included as adjustments to the provincial government valuation price. Royalties on NGLs are assessed at a flat rate of 20% of revenues.

During 2013, royalties for North America Onshore production averaged 10% of gross revenue (2012 – 7%).

### **Refining and Marketing**

*For a discussion of the environmental and other regulatory conditions, and competitive conditions and seasonal impacts affecting our Refining and Marketing segment, refer to the Industry Conditions and Risk Factors sections of this AIF.*

### **Operations – Refining and Product Supply**

#### **Eastern North America**

The Montreal refinery has a crude oil capacity of 137 mbbls/d, processing primarily foreign conventional crude oil, with a flexible configuration that allows processing of light, sour and heavy grades of crude oil, as well as intermediate feedstock. Crude oil is procured from the market on a spot basis or under contracts that can be terminated on short notice. Crude oil for the refinery is largely supplied via the Portland-Montreal Pipeline and to a lesser extent, by rail and marine transportation. With the commissioning of the rail offloading facility in the fourth quarter of 2013, the Montreal refinery has also started to receive inland crudes. Rail volumes are expected to increase to 35 mbbls/d by the end of the first quarter of 2014.

Production yield from the Montreal refinery includes gasoline, distillate, asphalt and petrochemicals, which are

distributed primarily across Quebec and Ontario. The Montreal refinery also produces feedstock for Suncor's lubricants plant. Refined products are delivered to distribution terminals in Ontario via the Trans-Northern Pipeline and delivered to customers directly by truck, rail and marine vessel.

The Sarnia refinery has a crude oil capacity of 85 mbbls/d, processing both SCO from the company's Oil Sands operations and conventional crude oil purchased from third parties on a spot basis or under contracts that can be terminated on short notice. Crude oil is supplied to the Sarnia refinery primarily via the Enbridge Mainline and Lakehead pipeline systems. Suncor procures conventional crude oil feedstock primarily from Western Canada and has the ability to supplement supply with purchases from the U.S.

Production yield from the Sarnia refinery includes gasoline, distillate and petrochemicals, which are primarily distributed in Ontario. Refined products are delivered to distribution terminals in Ontario via the Sun-Canadian Pipeline, or delivered to customers directly via marine vessel and rail. The Sarnia refinery also has limited access to pipelines delivering refined products into the U.S.

To meet the demands of Suncor's marketing network in Eastern North America, the company also purchases gasoline and distillate from other refiners. Suncor enters into reciprocal exchange arrangements with other refiners in Eastern North America, primarily for gasoline and distillate, as a means of minimizing transportation costs and balancing product availability. Specialty products, such as asphalt and petrochemicals, are also exported to customers in the U.S.

Suncor holds a 51% interest in ParaChem Chemicals L.P. (ParaChem), which owns and operates a petrochemicals plant located adjacent to the Montreal refinery. Feedstock for the plant includes xylene and toluene produced by the Montreal and Sarnia refineries. The plant primarily produces paraxylene, which is used by customers to manufacture polyester textiles and plastic bottles. Paraxylene production was approximately 355,000 metric tonnes in 2013 (2012 – 362,000 metric tonnes). ParaChem also produces benzene, hydrogen and heavy aromatics. Benzene production is delivered back to the Montreal refinery to be marketed with production from that facility.

Suncor's lubricants plant produces specialty lubricants and waxes that are marketed in Canada and internationally. The facility is the largest producer of lubricant base stocks in Canada. In 2013, the plant produced approximately 804 million litres of lubricant base stocks. Feedstock for the lubricants facility comes from Suncor's Montreal refinery and other purchase contracts.

**Western North America**

Effective January 1, 2014, Suncor increased the nameplate capacity of the Edmonton refinery to 142 mbbls/d from 140 mbbls/d, due to demonstrated reliability and continuous improvement in operating efficiency. The Edmonton refinery has the potential to run entirely on feedstock sourced from oil sands and heavy crude oil from Alberta. Crude oil is supplied to the refinery via company-owned and third-party pipelines.

Feedstock is supplied from Suncor's Oil Sands Operations, Syncrude operations (including volumes purchased by Suncor from other co-owners' share of production) and other producers from the Athabasca and Cold Lake regions of Alberta. The refinery can process approximately 41 mbbls/d of blended feedstock (comprised of 29 mbbls/d of bitumen and 12 mbbls/d of diluent) and process approximately 44 mbbls/d of sour SCO. The refinery can also process approximately 57 mbbls/d of sweet SCO through its synthetic train.

Production yield from the Edmonton refinery includes primarily gasoline and distillate, which are delivered to distribution terminals across Western Canada via the Alberta Products Pipeline, the TransMountain Pipeline and the Enbridge pipeline system, as well as via truck and rail.

The Commerce City refinery has a crude oil capacity of 98 mbbls/d. The refinery processes primarily conventional crude oil, but also has the capability of processing up to 15 mbbls/d of sour SCO from Suncor's Oil Sands Base

operations. A majority of crude feedstock is supplied from sources in the U.S., primarily the Rocky Mountain region, while the remainder is purchased from Canadian sources. Crude oil purchase contracts have terms ranging from month-to-month to multi-year. Approximately 58% of crude oil supplied to the refinery is transported via pipeline, with the remainder transported via truck.

Production yield from the Commerce City refinery includes primarily gasoline, distillate and asphalt. The majority of the refined products are sold to commercial and wholesale customers in Colorado and Wyoming, and a retail network in Colorado. Refined products are distributed by truck, rail, and pipeline.

To support the supply and demand balance in the Vancouver area, Suncor imports and exports finished products through its Burrard distribution terminal located on the west coast of B.C. Suncor also enters into reciprocal exchange arrangements with other refiners in Western North America as a means of minimizing transportation costs and balancing product availability.

**Refinery Throughputs, Utilizations and Yields**

The following tables summarize the crude feedstock, utilizations and production yield mix for Suncor's refineries for the years ended December 31, 2013 and 2012. Refinery utilizations include the impacts of planned and unplanned maintenance events.

Average Daily Crude Throughput (mbbls/d, except as noted)	Montreal		Sarnia		Edmonton		Commerce City	
	2013	2012	2013	2012	2013	2012	2013	2012
Oil Sands Base sweet synthetic	—	—	28.0	14.5	45.5	47.6	—	0.2
Oil Sands Base sour synthetic	—	—	11.3	22.7	59.3	49.9	8.0	8.3
Other synthetic	—	—	11.6	8.3	23.6	39.2	8.9	—
East Coast Canada light conventional <sup>(1)</sup>	14.6	21.6	—	—	—	—	—	—
Other light conventional	94.2	84.8	24.8	0.8	0.5	0.6	72.1	60.2
Sour conventional	0.2	4.7	—	22.2	—	—	11.3	—
Heavy conventional	16.7	18.0	—	—	—	0.6	—	27.0
<b>Total</b>	<b>125.7</b>	<b>129.1</b>	<b>75.7</b>	<b>68.5</b>	<b>128.9</b>	<b>137.9</b>	<b>100.3</b>	<b>95.7</b>
Utilization <sup>(2)</sup> (%)	92	94	89	81	92	102	102	98

(1) Includes purchases of Suncor and third-party shares of production from East Coast Canada oilfields.

(2) Refinery utilizations based on crude 2013 processing capacities (in mbbls/d): Montreal – 137; Sarnia – 85; Edmonton – 140; and Commerce City – 98.

Refined Petroleum Production Yield Mix (%)	Montreal		Sarnia		Edmonton		Commerce City	
	2013	2012	2013	2012	2013	2012	2013	2012
Gasoline	41	41	39	39	43	43	49	47
Distillates	37	35	46	46	52	52	35	34
Other	22	24	15	15	5	5	16	19

### Distribution Terminals and Pipelines

Suncor owns and operates 13 major refined product terminals across Canada (including terminals adjacent to refineries) and two product terminals in Colorado. Combined with access to facilities under long-term contractual arrangements with other parties, Suncor's North American assets are sufficient to meet the Refining and Marketing segment's current storage and distribution needs.

Suncor has ownership interests in the following pipelines:

Pipeline	Ownership	Type	Origin	Destinations
Portland-Montreal Pipeline	23.8%	Crude oil	Portland, Maine	Montreal, Quebec
Trans-Northern Pipeline	33.3%	Refined product	Montreal, Quebec	Ontario – Ottawa, Toronto & Oakville
Sun-Canadian Pipeline	55.0%	Refined product	Sarnia, Ontario	Ontario – Toronto, London & Hamilton
Alberta Products Pipeline	35.0%	Refined product	Edmonton, Alberta	Calgary, Alberta
Rocky Mountain Crude Pipeline	100.0%	Crude oil	Guernsey, Wyoming	Denver, Colorado
Centennial Pipeline	100.0%	Crude oil	Guernsey, Wyoming	Cheyenne, Wyoming

### Operations – Marketing

Suncor's retail service station network operates nationally in Canada primarily under the Petro-Canada™ brand. As at December 31, 2013, this retail service station network consisted of 1,454 outlets across Canada. In addition to marketing through proprietary retail outlets, refined products are marketed through independent dealers and joint arrangements. Suncor's Canadian retail network had annual sales of gasoline motor fuels averaging approximately 4.8 million litres per site in 2013 (2012 – 4.8 million litres per site) and attracted an estimated 18% share (2012 – 17% share) of the national retail market.

Suncor's Colorado retail network consists of 44 owned outlets and product supply agreements with a larger

network of Shell®-branded sites and Phillips 66®-branded sites in Colorado.

Marketing activities also generate non-petroleum revenues from convenience stores and car washes.

Suncor's wholesale operations sell refined products into farm, home heating, paving, small industrial, commercial and truck markets. Through its PETRO-PASS network, Suncor is a national marketer to the commercial road transport segment in Canada. Suncor also sells large volumes of refined products directly to large industrial and commercial customers and independent marketers.

### Retail Summary:

Locations	As at December 31	
	2013	2012
<b>Retail Service Stations – Canada</b>		
Petro-Canada™-branded	1 454	1 458
Sunoco™-branded	7	7
	<b>1 461</b>	<b>1 465</b>
<b>Retail Service Stations – Colorado</b>		
Shell®-branded retail service stations	38	38
Phillips 66®-branded retail service stations	6	6
	<b>44</b>	<b>44</b>
<b>Wholesale Cardlock Sites – Canada</b>		
Petro-Canada™-branded cardlock sites (PETRO-PASS)	259	246

Sales Volumes	2013		2012	
	thousands of m <sup>3</sup> /d	% operating revenues	thousands of m <sup>3</sup> /d	% operating revenues
<b>Gasoline (includes motor and aviation gasoline)</b>				
Eastern North America	18.4		19.8	
Western North America	20.9		20.4	
	<b>39.3</b>	<b>46</b>	<b>40.2</b>	<b>47</b>
<b>Distillates (includes diesel and heating oils, and aviation jet fuels)</b>				
Eastern North America	14.2		12.0	
Western North America	19.2		19.0	
	<b>33.4</b>	<b>40</b>	<b>31.0</b>	<b>39</b>
<b>Other (includes heavy fuel oil, asphalts, lubricants, petrochemicals, other)</b>				
Eastern North America	9.1		9.8	
Western North America	4.5		4.6	
	<b>13.6</b>	<b>14</b>	<b>14.4</b>	<b>14</b>
	<b>86.3</b>		<b>85.6</b>	

Sales volumes for specific products are moderately impacted by seasonal cycles: gasoline sales are typically higher during the summer driving season; heating oil sales are typically higher during the winter season; diesel sales are typically higher during the drilling season at the beginning of the year in Western Canada, and during agricultural planting and harvest seasons in early spring and late summer, respectively; and asphalt sales are typically higher during the construction paving period. Suncor has the flexibility to modify refinery inputs and outputs to match production yields with anticipated product demands.

Sales volumes can also be impacted when refineries undergo planned maintenance events, which reduce production. Suncor is able to partially mitigate this impact through its integrated facilities: the Edmonton refinery and Oil Sands Base upgrading facilities, and the Sarnia and Montreal refineries. In addition, Suncor may purchase refined products from third-party suppliers.

### Other Suncor Businesses

#### Energy Trading

Suncor's Energy Trading business is organized around five main commodity groups – crude oil, natural gas, sulphur, petroleum coke and electricity. Energy Trading provides commodity supply, transportation and pricing solutions. Our customers include mid-to large-sized commercial and industrial consumers, utility companies and energy producers.

The Energy Trading business supports the company's Oil Sands production by optimizing price realizations, managing inventory levels during unplanned outages at Suncor's facilities and managing the impacts of external market factors, such as pipeline disruptions or outages at refining customers. The Energy Trading business has entered into arrangements for other midstream infrastructure, such as pipeline, storage capacity and rail access, to optimize delivery of existing and future growth production, while generating trading earnings on select strategies and opportunities.

In the fourth quarter of 2013, following the completion of a rail offloading facility in Montreal, the Energy Trading business commenced rail shipments of non-proprietary crude to the Montreal refinery. This enabled the Montreal refinery to take advantage of the price differentials between inland and global crudes. A second rail offloading facility is planned for Tracy, Québec. It is envisioned that this will enable access to eastern tide waters for Oil Sands product and could commence as early as the second quarter of 2014.

#### Renewable Energy

Since 2006, Suncor has invested in Canada's emerging biofuels industry. Suncor operates Canada's largest ethanol facility, the St. Clair Ethanol plant in the Sarnia-Lambton region of Ontario. The ethanol plant has a production capacity of 400 million litres per year. In 2013, the plant produced 415.0 million litres of ethanol (2012 – 412.5 million litres).

In addition, Suncor's renewable energy interests include six wind power projects in operation. Suncor's wind farms have a gross generating capacity of 255 MW and avoid carbon dioxide (CO<sub>2</sub>) equivalent emissions of approximately 395,000 tonnes each year, compared with traditional power generation sources. Suncor continues to evaluate new opportunities to build its renewable energy portfolio with potential wind power project sites that are in various stages of the evaluation process. In December 2013, the

Adelaide project received regulatory approval and construction is expected to commence in the second quarter of 2014. The Cedar Point project will continue to progress through the regulatory process in 2014. The two projects, based in Ontario, are expected to add 140 MW of gross installed capacity, increasing the gross installed capacity of Suncor's wind projects by 55%.

Suncor's operating wind power projects:

Wind Power Projects		Ownership Interest (%)	Size (MW)	Turbines	Commissioned
Operated by Suncor					
Wintering Hills	Drumheller, Alberta	70.0	88	55	2011
Kent Breeze	Thamesville, Ontario	100.0	20	8	2011
Non-operated					
Ripley	Ripley, Ontario	50.0	76	38	2007
Chin Chute	Taber, Alberta	33.3	30	20	2006
Magrath	Magrath, Alberta	33.3	30	20	2004
SunBridge	Gull Lake, Saskatchewan	50.0	11	17	2002

## SUNCOR EMPLOYEES

The following table shows the distribution of employees among Suncor's business units and corporate office.

As of December 31	2013	2012
Oil Sands	6 310	6 015
Exploration and Production	479	719
Refining and Marketing	3 265	3 175
Corporate, Energy Trading and Renewable Energy	3 892	4 023
<b>Total</b>	<b>13 946</b>	<b>13 932</b>

Corporate includes employees from our Major Projects group, which supports the business units. In addition to our employees, the company also uses independent contractors to supply a range of services.

Approximately 35% of the company's employees were covered by collective agreements at the end of 2013. Unifor, a new union created by the merger of the Communications, Energy and Paperworkers Union and the Canadian Auto Workers Union, represented the majority of these employees. Three-year collective agreements with approximately 4,250 employees in the company's Oil Sands, In Situ, refinery, lubricants and terminal operations were negotiated in 2013. The collective agreement with Unifor

covering approximately 60 employees on Terra Nova expired September 30, 2013 and a renewal is currently being negotiated. A second collective agreement with the Teamsters Union, covering approximately 30 employees for the company's British Columbia terminals and warehouses, expired January 31, 2014 and a renewal is currently being negotiated. Collective agreements with the United Steel Workers representing approximately 250 employees at the Commerce City refinery and with the Sunoco Employees' Bargaining Association representing approximately 200 employees at the Sarnia refinery, will expire January 31, 2015 and February 28, 2015, respectively.

## SIGNIFICANT POLICIES

Suncor has a Standards of Business Conduct Code (the Code), which applies to Suncor's directors, officers, employees and contract workers. The Code requires strict compliance with legal requirements and sets Suncor's standards for the ethical conduct of our business. Topics addressed in the Code include competition, conflict of interest, the protection and proper use of corporate assets and opportunities, confidentiality, disclosure of material information, trading in shares and securities, communications to the public, improper payments, harassment, fair dealing in trade relations, and accounting, reporting and business controls. The Code is supported by detailed policy guidance and standards and a Code compliance program, under which every Suncor director, officer, employee and contract worker is required to annually read a summary of the Code and affirm that he or she has reviewed the summary, affirm that he or she understands the requirements of the Code, and provide confirmation of his or her compliance with the Code during the preceding year. Compliance is then reported to Suncor's Audit Committee.

Suncor has a Human Rights Policy, which affirms Suncor's responsibility to respect human rights and ensures that Suncor is not complicit in human rights abuses. Suncor is subject to the laws of the countries in which it operates and is committed to complying with all such laws while honouring international human rights principles, such as those described in the Universal Declaration of Human Rights and the Voluntary Principles on Security and Human Rights. The policy includes principles committed to a harassment-free and violence-free working environment, which respects the cultures, customs and values of the communities in which we operate. The policy makes it clear that the scope of Suncor's human rights due diligence includes its own operations and, where we can influence our third-party business relationships, the operations of others.

Suncor has a Stakeholder Relations Policy, which reflects Suncor's values. The policy provides that Suncor is committed to developing and maintaining positive, meaningful relationships with stakeholders in all of its operating areas and provides Suncor's principles for guiding the development of stakeholder relations (respect, responsibility, transparency, timeliness and mutual benefit). The policy makes it clear that successful stakeholder engagement fosters informed decision-making, resolving issues with timely, cost-effective and mutually beneficial solutions and supporting shared learning.

Suncor has an Aboriginal Affairs Policy, which affirms Suncor's desire to work in collaboration with Canada's Aboriginal Peoples to develop a thriving energy industry that allows Aboriginal communities to be vibrant, diversified and sustainable. The policy provides a consistent approach to the company's relationships with Canada's

Aboriginal Peoples and outlines Suncor's responsibilities and commitments, and is intended to guide Suncor's business decisions on a day-to-day basis. Suncor is committed to working closely with Canada's Aboriginal Peoples and communities to build and maintain effective, long-term and mutually beneficial relationships. The policy makes it clear that responsible development takes into account Aboriginal issues and concerns about the effects, positive and negative, of energy development on communities and their traditional and current uses of lands and resources.

Suncor remains committed to reducing overall greenhouse gas (GHG) emissions intensity, in addition to other goals related to improving energy efficiency, reducing water use, increasing land reclamation and reducing air emissions. We actively work to mitigate our environmental impact, including taking action to reduce GHG emissions, investing in renewable forms of energy such as wind power and biofuels, accelerating land reclamation, installing new emissions abatement equipment, investing in technology research and development and pursuing other opportunities, both internally as well as through joint initiatives, such as our role in COSIA. The Environment, Health, Safety and Sustainable Development Committee of the Board of Directors meets quarterly to review Suncor's effectiveness in meeting its obligations pertaining to EH&S. The committee also reviews the effectiveness with which Suncor establishes appropriate EH&S policies, including environmental performance, given legal, industry and community standards. Management systems are maintained by this committee to implement such policies and ensure compliance.

Suncor has an Environment, Health and Safety (EH&S) policy, which affirms Suncor's aspirations to be a sustainable energy company by meeting or exceeding the environmental, social and economic expectations of our current and future stakeholders. The policy reflects Suncor's belief that our EH&S efforts are complementary and interdependent with our economic and social performance. The policy makes it clear that Suncor management is responsible for ensuring that employees under their direction are competent to manage their EH&S responsibilities and are knowledgeable of the hazards and risks associated with their jobs, and that all Suncor employees and contractors are accountable for compliance with relevant acts, codes, regulations, standards and procedures, and for their own personal safety and the safety of their co-workers. To support and highlight the goals of the EH&S policy, Suncor holds an Annual President's Operational Excellence Awards, which honour employees and contractors who demonstrate an exceptional commitment to health and safety. The awards ceremony highlights progress on safety initiatives and provides educational opportunities for all employees.

## SIGNIFICANT POLICIES

The aforementioned policies are reviewed annually and are available on the company's intranet and external website. Additional workshops and training sessions are also conducted as warranted throughout the year. In addition, information regarding the policies is provided for employees primarily through feature articles on the

company's intranet or employee newsletter. The Aboriginal Affairs Policy has Cree and Dene audio translations. Regular training is provided for employees and contract workers whose roles require interaction with the respective stakeholder group.

## STATEMENT OF RESERVES DATA AND OTHER OIL AND GAS INFORMATION

### Date of Statement

The Statement of Reserves Data and Other Oil and Gas Information outlined below is dated February 28, 2014, with an effective date of December 31, 2013. The preparation date of the information is as of February 21, 2014.

### Disclosure of Reserves Data

As a Canadian issuer, Suncor is subject to the reporting requirements of Canadian securities regulatory authorities, including the reporting of our reserves data in accordance with National Instrument 51-101 – *Standards of Disclosure for Oil and Gas Activities* (NI 51-101).

The reserves data set forth in this section of the AIF for Suncor's Mining and In Situ operations is based upon evaluations conducted by GLJ Petroleum Consultants Ltd. (GLJ) with an effective date of December 31, 2013, contained in their reports (the GLJ Reports). The reserves data set forth below for all other reserves, which includes Suncor's interests in its conventional assets offshore Newfoundland and Labrador (East Coast Canada), conventional assets offshore the U.K. (North Sea), conventional assets in Libya (Other International), and its natural gas and tight oil assets primarily located in Western Canada (North America Onshore), is based upon evaluations conducted by Sproule Associates Limited or Sproule International Limited (collectively, Sproule) with an effective date of December 31, 2013, contained in their reports (the Sproule Reports). Each of GLJ and Sproule (collectively, the Evaluators) are independent qualified reserves evaluators as defined in NI 51-101. All factual data supplied to the Evaluators was accepted as presented.

The reserves data summarizes Suncor's SCO, bitumen, light and medium oil, natural gas and NGL reserves and the net present values of future net revenues for these reserves using forecast prices and costs (unless otherwise indicated) prior to provision for interest, general and administrative expense, and certain abandonment and reclamation costs. Future net revenues are presented on before-tax and after-tax bases.

### Advisories – Future Net Revenues

It should not be assumed that the estimates of future net revenues presented in the tables below represent the fair market value of the reserves. There is no assurance that the forecast prices and costs assumptions will be attained

and variances could be material. There is no guarantee that the estimates for SCO, bitumen, light and medium oil, natural gas and NGL reserves provided herein will be recovered. Actual SCO, bitumen, light and medium oil, natural gas and NGL reserves may be greater than or less than the estimates provided herein. Readers should review the definitions and information contained in the Notes to Reserves Data Tables, Definitions for Reserves Data Tables and Notes to Future Net Revenues Tables discussion in conjunction with the following notes and tables.

### Significant Factors or Uncertainties Affecting Reserves Data

The evaluation of reserves is a continuous process, one that can be significantly impacted by a variety of internal and external influences. Revisions are often required as a result of newly acquired technical data, technology improvements, or changes in historical performance, pricing, economic conditions, market availability and regulatory requirements. Additional technical information regarding geology, reservoir properties and reservoir fluid properties are obtained through seismic programs, drilling programs, updated reservoir performance studies and analysis, and production history, and may result in revisions to reserves. Pricing, market availability and economic conditions affect the profitability of reserves exploitation. Depending on the current business environment, higher commodity prices may result in higher reserves by making more projects economically viable or extending their economic life, while lower commodity prices may result in lower reserves, although this generally does not result for assets under PSCs. Regulatory changes, including royalty regimes and environmental regulations, cannot be predicted but may have positive or negative effects on reserves. Future technology improvements would be expected to have a favourable impact on the economics of reserves development and exploitation, and therefore result in an increase to reserves.

While the above factors, and many others, can be considered, certain judgments and assumptions are always required. As new information becomes available, these areas are reviewed and revised accordingly.

For more information as to the risks involved when estimating reserves and resources, see the Risk Factors – Uncertainty of Reserves and Resources Estimates section in this AIF.

## Oil and Gas Reserves Tables and Notes

Summary of Oil and Gas Reserves<sup>(1)(2)(3)</sup>

as at December 31, 2013

(forecast prices and costs)

	SCO <sup>(4)</sup>		Bitumen		Light & Medium Oil		Natural Gas <sup>(5)</sup>		NGLs		Total	
	(mmbbls)		(mmbbls)		(mmbbls)		(bcf)		(mmbbls)		(mmeob)	
	Gross	Net	Gross	Net	Gross	Net	Gross	Net	Gross	Net	Gross	Net
<b>Proved Developed Producing</b>												
Mining	1 863	1 670	—	—	—	—	—	—	—	—	1 863	1 670
In Situ	151	143	167	152	—	—	—	—	—	—	318	295
East Coast Canada	—	—	—	—	41	30	—	—	—	—	41	30
North America Onshore	—	—	—	—	2	1	42	35	1	1	10	8
Total Canada	2 014	1 812	167	152	43	32	42	35	1	1	2 232	2 003
North Sea	—	—	—	—	79	79	2	2	—	—	79	79
Other International	—	—	—	—	—	—	—	—	—	—	—	—
<b>Total Proved Developed Producing</b>	<b>2 014</b>	<b>1 812</b>	<b>167</b>	<b>152</b>	<b>121</b>	<b>110</b>	<b>45</b>	<b>38</b>	<b>1</b>	<b>1</b>	<b>2 311</b>	<b>2 082</b>
<b>Proved Developed Non-Producing</b>												
Mining	—	—	—	—	—	—	—	—	—	—	—	—
In Situ	—	—	—	—	—	—	—	—	—	—	—	—
East Coast Canada	—	—	—	—	—	—	—	—	—	—	—	—
North America Onshore	—	—	—	—	—	—	3	3	—	—	1	1
Total Canada	—	—	—	—	—	—	3	3	—	—	1	1
North Sea	—	—	—	—	4	4	—	—	—	—	4	4
Other International	—	—	—	—	149	54	—	—	—	—	149	54
<b>Total Proved Developed Non-Producing</b>	<b>—</b>	<b>—</b>	<b>—</b>	<b>—</b>	<b>152</b>	<b>58</b>	<b>4</b>	<b>4</b>	<b>—</b>	<b>—</b>	<b>153</b>	<b>58</b>
<b>Proved Undeveloped</b>												
Mining	—	—	845	764	—	—	—	—	—	—	845	764
In Situ	564	497	875	749	—	—	—	—	—	—	1 439	1 245
East Coast Canada	—	—	—	—	26	18	—	—	—	—	26	18
North America Onshore	—	—	—	—	2	1	4	4	—	—	2	2
Total Canada	564	497	1 720	1 512	27	20	4	4	—	—	2 312	2 029
North Sea	—	—	—	—	25	25	1	1	—	—	25	25
Other International	—	—	—	—	3	1	—	—	—	—	3	1
<b>Total Proved Undeveloped</b>	<b>564</b>	<b>497</b>	<b>1 720</b>	<b>1 512</b>	<b>55</b>	<b>45</b>	<b>5</b>	<b>5</b>	<b>—</b>	<b>—</b>	<b>2 340</b>	<b>2 055</b>
<b>Proved</b>												
Mining	1 863	1 670	845	764	—	—	—	—	—	—	2 707	2 433
In Situ	715	639	1 043	901	—	—	—	—	—	—	1 758	1 540
East Coast Canada	—	—	—	—	67	48	—	—	—	—	67	48
North America Onshore	—	—	—	—	3	3	50	42	1	1	13	11
Total Canada	2 578	2 309	1 887	1 665	70	51	50	42	1	1	4 544	4 033
North Sea	—	—	—	—	107	107	4	4	—	—	108	108
Other International	—	—	—	—	151	55	—	—	—	—	151	55
<b>Total Proved</b>	<b>2 578</b>	<b>2 309</b>	<b>1 887</b>	<b>1 665</b>	<b>329</b>	<b>213</b>	<b>54</b>	<b>46</b>	<b>1</b>	<b>1</b>	<b>4 804</b>	<b>4 195</b>
<b>Probable</b>												
Mining	520	459	397	339	—	—	—	—	—	—	916	798
In Situ	1 092	901	457	355	—	—	—	—	—	—	1 550	1 256
East Coast Canada	—	—	—	—	279	215	—	—	—	—	279	215
North America Onshore	—	—	—	—	2	2	36	31	1	1	9	7
Total Canada	1 612	1 360	854	694	281	217	36	31	1	1	2 754	2 277
North Sea	—	—	—	—	36	36	2	2	—	—	37	37
Other International	—	—	—	—	112	40	—	—	—	—	112	40
<b>Total Probable</b>	<b>1 612</b>	<b>1 360</b>	<b>854</b>	<b>694</b>	<b>429</b>	<b>293</b>	<b>39</b>	<b>33</b>	<b>1</b>	<b>1</b>	<b>2 902</b>	<b>2 354</b>
<b>Proved Plus Probable</b>												
Mining	2 382	2 129	1 241	1 103	—	—	—	—	—	—	3 624	3 232
In Situ	1 807	1 541	1 500	1 256	—	—	—	—	—	—	3 307	2 797
East Coast Canada	—	—	—	—	346	263	—	—	—	—	346	263
North America Onshore	—	—	—	—	5	4	86	73	2	2	21	18
Total Canada	4 189	3 669	2 741	2 359	351	268	86	73	2	2	7 298	6 310
North Sea	—	—	—	—	144	144	7	7	—	—	145	145
Other International	—	—	—	—	263	95	—	—	—	—	263	95
<b>Total Proved Plus Probable</b>	<b>4 189</b>	<b>3 669</b>	<b>2 741</b>	<b>2 359</b>	<b>758</b>	<b>506</b>	<b>92</b>	<b>80</b>	<b>2</b>	<b>2</b>	<b>7 706</b>	<b>6 549</b>

Please see Notes (1) through (5) at the end of the reserves data section for important information about volumes in this table.

## Summary of Oil and Gas Reserves<sup>(1)(2)(3)</sup>

as at December 31, 2013  
(constant prices and costs)

	SCO <sup>(4)</sup>		Bitumen		Light & Medium Oil		Natural Gas <sup>(5)</sup>		NGLs		Total	
	(mmbbls)		(mmbbls)		(mmbbls)		(bcf)		(mmbbls)		(mmeob)	
	Gross	Net	Gross	Net	Gross	Net	Gross	Net	Gross	Net	Gross	Net
<b>Proved Developed Producing</b>												
Mining	1 863	1 660	—	—	—	—	—	—	—	—	1 863	1 660
In Situ	151	144	167	153	—	—	—	—	—	—	318	297
East Coast Canada	—	—	—	—	41	30	—	—	—	—	41	30
North America Onshore	—	—	—	—	2	1	36	32	1	1	8	7
Total Canada	2 014	1 804	167	153	43	31	36	32	1	1	2 231	1 995
North Sea	—	—	—	—	79	79	2	2	—	—	80	80
Other International	—	—	—	—	—	—	—	—	—	—	—	—
<b>Total Proved Developed Producing</b>	<b>2 014</b>	<b>1 804</b>	<b>167</b>	<b>153</b>	<b>122</b>	<b>111</b>	<b>39</b>	<b>34</b>	<b>1</b>	<b>1</b>	<b>2 311</b>	<b>2 075</b>
<b>Proved Developed Non-Producing</b>												
Mining	—	—	—	—	—	—	—	—	—	—	—	—
In Situ	—	—	—	—	—	—	—	—	—	—	—	—
East Coast Canada	—	—	—	—	—	—	—	—	—	—	—	—
North America Onshore	—	—	—	—	—	—	3	3	—	—	1	1
Total Canada	—	—	—	—	—	—	3	3	—	—	1	1
North Sea	—	—	—	—	4	4	—	—	—	—	4	4
Other International	—	—	—	—	150	55	—	—	—	—	150	55
<b>Total Proved Developed Non-Producing</b>	<b>—</b>	<b>—</b>	<b>—</b>	<b>—</b>	<b>154</b>	<b>59</b>	<b>4</b>	<b>4</b>	<b>—</b>	<b>—</b>	<b>155</b>	<b>60</b>
<b>Proved Undeveloped</b>												
Mining	—	—	845	790	—	—	—	—	—	—	845	790
In Situ	564	516	876	776	—	—	—	—	—	—	1 439	1 292
East Coast Canada	—	—	—	—	26	18	—	—	—	—	26	18
North America Onshore	—	—	—	—	2	2	5	4	—	—	3	3
Total Canada	564	516	1 720	1 566	28	20	5	4	—	—	2 312	2 102
North Sea	—	—	—	—	25	25	1	1	—	—	26	26
Other International	—	—	—	—	3	1	—	—	—	—	3	1
<b>Total Proved Undeveloped</b>	<b>564</b>	<b>516</b>	<b>1 720</b>	<b>1 566</b>	<b>56</b>	<b>46</b>	<b>6</b>	<b>6</b>	<b>—</b>	<b>—</b>	<b>2 340</b>	<b>2 129</b>
<b>Proved</b>												
Mining	1 863	1 660	845	790	—	—	—	—	—	—	2 707	2 450
In Situ	715	660	1 043	929	—	—	—	—	—	—	1 758	1 590
East Coast Canada	—	—	—	—	67	47	—	—	—	—	67	47
North America Onshore	—	—	—	—	4	3	44	39	1	1	12	11
Total Canada	2 577	2 321	1 888	1 719	70	51	44	39	1	1	4 544	4 098
North Sea	—	—	—	—	108	108	4	4	—	—	109	109
Other International	—	—	—	—	153	56	—	—	—	—	153	56
<b>Total Proved</b>	<b>2 577</b>	<b>2 321</b>	<b>1 888</b>	<b>1 719</b>	<b>332</b>	<b>215</b>	<b>48</b>	<b>44</b>	<b>1</b>	<b>1</b>	<b>4 806</b>	<b>4 263</b>
<b>Probable</b>												
Mining	520	462	397	344	—	—	—	—	—	—	916	806
In Situ	1 092	891	457	388	—	—	—	—	—	—	1 550	1 279
East Coast Canada	—	—	—	—	279	211	—	—	—	—	279	211
North America Onshore	—	—	—	—	2	2	32	30	1	1	8	8
Total Canada	1 612	1 353	854	732	281	213	32	30	1	1	2 753	2 303
North Sea	—	—	—	—	36	36	2	2	—	—	36	36
Other International	—	—	—	—	110	33	—	—	—	—	110	33
<b>Total Probable</b>	<b>1 612</b>	<b>1 353</b>	<b>854</b>	<b>732</b>	<b>427</b>	<b>282</b>	<b>34</b>	<b>33</b>	<b>1</b>	<b>1</b>	<b>2 900</b>	<b>2 372</b>
<b>Proved Plus Probable</b>												
Mining	2 382	2 122	1 241	1 133	—	—	—	—	—	—	3 624	3 255
In Situ	1 807	1 551	1 500	1 318	—	—	—	—	—	—	3 307	2 869
East Coast Canada	—	—	—	—	346	258	—	—	—	—	346	258
North America Onshore	—	—	—	—	6	5	76	70	2	1	20	18
Total Canada	4 189	3 673	2 742	2 451	352	264	76	70	2	1	7 297	6 401
North Sea	—	—	—	—	144	144	7	7	—	—	146	145
Other International	—	—	—	—	263	89	—	—	—	—	263	89
<b>Total Proved Plus Probable</b>	<b>4 189</b>	<b>3 673</b>	<b>2 742</b>	<b>2 451</b>	<b>759</b>	<b>497</b>	<b>83</b>	<b>76</b>	<b>2</b>	<b>1</b>	<b>7 705</b>	<b>6 635</b>

Please see Notes (1) through (5) at the end of the reserves data section for important information about volumes in this table.

## STATEMENT OF RESERVES DATA AND OTHER OIL AND GAS INFORMATION

**Reconciliation of Gross Oil Reserves**<sup>(1)(2)(3)</sup>

as at December 31, 2013  
(forecast prices and costs)

	SCO <sup>(4)</sup>			Bitumen			Light & Medium Oil		
	Proved	Probable	Proved Plus Probable	Proved	Probable	Proved Plus Probable	Proved	Probable	Proved Plus Probable
	mmbbls	mmbbls	mmbbls	mmbbls	mmbbls	mmbbls	mmbbls	mmbbls	mmbbls
<b>December 31, 2012</b>									
Mining	1 958	539	2 497	—	—	—	—	—	—
In Situ	665	1 060	1 725	964	695	1 659	—	—	—
East Coast Canada	—	—	—	—	—	—	76	268	344
North America Onshore	—	—	—	—	—	—	11	4	15
Total Canada	2 623	1 599	4 222	964	695	1 659	87	272	359
North Sea	—	—	—	—	—	—	124	43	167
Other International	—	—	—	—	—	—	151	117	268
<b>Total</b>	<b>2 623</b>	<b>1 599</b>	<b>4 222</b>	<b>964</b>	<b>695</b>	<b>1 659</b>	<b>362</b>	<b>432</b>	<b>794</b>
<b>Extensions &amp; Improved Recovery<sup>(6)</sup></b>									
Mining	—	—	—	845	397	1 241	—	—	—
In Situ	76	(66)	10	74	(69)	5	—	—	—
East Coast Canada	—	—	—	—	—	—	—	21	21
North America Onshore	—	—	—	—	—	—	2	1	3
Total Canada	76	(66)	10	919	327	1 246	2	22	24
North Sea	—	—	—	—	—	—	—	—	—
Other International	—	—	—	—	—	—	—	1	1
<b>Total</b>	<b>76</b>	<b>(66)</b>	<b>10</b>	<b>919</b>	<b>327</b>	<b>1 246</b>	<b>3</b>	<b>22</b>	<b>25</b>
<b>Technical Revisions<sup>(7)</sup></b>									
Mining	(7)	(19)	(26)	—	—	—	—	—	—
In Situ	4	98	102	30	(168)	(139)	—	—	—
East Coast Canada	—	—	—	—	—	—	11	(10)	1
North America Onshore	—	—	—	—	—	—	1	—	—
Total Canada	(2)	79	76	30	(168)	(139)	12	(10)	1
North Sea	—	—	—	—	—	—	3	(7)	(3)
Other International	—	—	—	—	—	—	8	(6)	2
<b>Total</b>	<b>(2)</b>	<b>79</b>	<b>76</b>	<b>30</b>	<b>(168)</b>	<b>(139)</b>	<b>23</b>	<b>(23)</b>	<b>—</b>
<b>Discoveries<sup>(8)</sup></b>									
Mining	—	—	—	—	—	—	—	—	—
In Situ	—	—	—	—	—	—	—	—	—
East Coast Canada	—	—	—	—	—	—	—	—	—
North America Onshore	—	—	—	—	—	—	—	—	—
Total Canada	—	—	—	—	—	—	—	—	—
North Sea	—	—	—	—	—	—	—	—	—
Other International	—	—	—	—	—	—	—	—	—
<b>Total</b>	<b>—</b>	<b>—</b>	<b>—</b>	<b>—</b>	<b>—</b>	<b>—</b>	<b>—</b>	<b>—</b>	<b>—</b>

Please see Notes (1) through (8) at the end of the reserves data section for important information about volumes in this table.

**Reconciliation of Gross Oil Reserves<sup>(1)(2)(3)</sup> (continued)**  
as at December 31, 2013  
(forecast prices and costs)

	SCO <sup>(4)</sup>			Bitumen			Light & Medium Oil		
	Proved	Probable	Proved Plus Probable	Proved	Probable	Proved Plus Probable	Proved	Probable	Proved Plus Probable
	mmbbls	mmbbls	mmbbls	mmbbls	mmbbls	mmbbls	mmbbls	mmbbls	mmbbls
<b>Acquisitions</b>									
Mining	—	—	—	—	—	—	—	—	—
In Situ	—	—	—	—	—	—	—	—	—
East Coast Canada	—	—	—	—	—	—	—	—	—
North America Onshore	—	—	—	—	—	—	—	—	—
Total Canada	—	—	—	—	—	—	—	—	—
North Sea	—	—	—	—	—	—	—	—	—
Other International	—	—	—	—	—	—	—	—	—
<b>Total</b>	<b>—</b>	<b>—</b>	<b>—</b>	<b>—</b>	<b>—</b>	<b>—</b>	<b>—</b>	<b>—</b>	<b>—</b>
<b>Dispositions</b>									
Mining	—	—	—	—	—	—	—	—	—
In Situ	—	—	—	—	—	—	—	—	—
East Coast Canada	—	—	—	—	—	—	—	—	—
North America Onshore	—	—	—	—	—	—	(10)	(2)	(12)
Total Canada	—	—	—	—	—	—	(10)	(2)	(12)
North Sea	—	—	—	—	—	—	—	—	—
Other International	—	—	—	—	—	—	—	—	—
<b>Total</b>	<b>—</b>	<b>—</b>	<b>—</b>	<b>—</b>	<b>—</b>	<b>—</b>	<b>(10)</b>	<b>(2)</b>	<b>(12)</b>
<b>Economic Factors<sup>(9)</sup></b>									
Mining	—	—	—	—	—	—	—	—	—
In Situ	—	—	—	—	—	—	—	—	—
East Coast Canada	—	—	—	—	—	—	—	—	—
North America Onshore	—	—	—	—	—	—	—	—	—
Total Canada	—	—	—	—	—	—	—	—	—
North Sea	—	—	—	—	—	—	—	—	—
Other International	—	—	—	—	—	—	—	—	—
<b>Total</b>	<b>—</b>	<b>—</b>	<b>—</b>	<b>—</b>	<b>—</b>	<b>—</b>	<b>—</b>	<b>—</b>	<b>—</b>
<b>Production</b>									
Mining	(89)	—	(89)	—	—	—	—	—	—
In Situ	(30)	—	(30)	(25)	—	(25)	—	—	—
East Coast Canada	—	—	—	—	—	—	(21)	—	(21)
North America Onshore	—	—	—	—	—	—	(1)	—	(1)
Total Canada	(119)	—	(119)	(25)	—	(25)	(22)	—	(22)
North Sea	—	—	—	—	—	—	(20)	—	(20)
Other International	—	—	—	—	—	—	(8)	—	(8)
<b>Total</b>	<b>(119)</b>	<b>—</b>	<b>(119)</b>	<b>(25)</b>	<b>—</b>	<b>(25)</b>	<b>(49)</b>	<b>—</b>	<b>(49)</b>
<b>December 31, 2013</b>									
Mining	1 863	520	2 382	845	397	1 241	—	—	—
In Situ	715	1 092	1 807	1 043	457	1 500	—	—	—
East Coast Canada	—	—	—	—	—	—	67	279	346
North America Onshore	—	—	—	—	—	—	3	2	5
Total Canada	2 577	1 612	4 189	1 887	854	2 741	70	281	351
North Sea	—	—	—	—	—	—	107	36	144
Other International	—	—	—	—	—	—	151	112	263
<b>Total</b>	<b>2 577</b>	<b>1 612</b>	<b>4 189</b>	<b>1 887</b>	<b>854</b>	<b>2 741</b>	<b>329</b>	<b>429</b>	<b>758</b>

Please see Notes (1) through (9) at the end of the reserves data section for important information about volumes in this table.

## STATEMENT OF RESERVES DATA AND OTHER OIL AND GAS INFORMATION

**Reconciliation of Natural Gas and NGL Reserves<sup>(1)(2)</sup>**

as at December 31, 2013

(forecast prices and costs)

	Natural Gas <sup>(5)</sup>			NGLs		
	Proved	Probable	Proved Plus Probable	Proved	Probable	Proved Plus Probable
	bcf	bcf	bcf	mmbbls	mmbbls	mmbbls
<b>December 31, 2012</b>						
Canada – North America Onshore	854	265	1 119	8	3	10
North Sea	5	4	9	—	—	—
<b>Total</b>	<b>859</b>	<b>268</b>	<b>1 128</b>	<b>8</b>	<b>3</b>	<b>11</b>
<b>Extensions &amp; Improved Recovery<sup>(6)</sup></b>						
Canada – North America Onshore	6	13	19	—	—	1
North Sea	—	—	—	—	—	—
<b>Total</b>	<b>6</b>	<b>13</b>	<b>19</b>	<b>—</b>	<b>—</b>	<b>1</b>
<b>Technical Revisions<sup>(7)</sup></b>						
Canada – North America Onshore	6	(2)	4	—	—	—
North Sea	2	(1)	—	—	—	—
<b>Total</b>	<b>8</b>	<b>(3)</b>	<b>4</b>	<b>—</b>	<b>—</b>	<b>—</b>
<b>Discoveries<sup>(8)</sup></b>						
Canada – North America Onshore	—	—	—	—	—	—
North Sea	—	—	—	—	—	—
<b>Total</b>	<b>—</b>	<b>—</b>	<b>—</b>	<b>—</b>	<b>—</b>	<b>—</b>
<b>Acquisitions</b>						
Canada – North America Onshore	—	—	—	—	—	—
North Sea	—	—	—	—	—	—
<b>Total</b>	<b>—</b>	<b>—</b>	<b>—</b>	<b>—</b>	<b>—</b>	<b>—</b>
<b>Dispositions</b>						
Canada – North America Onshore	(748)	(244)	(992)	(6)	(2)	(9)
North Sea	—	—	—	—	—	—
<b>Total</b>	<b>(748)</b>	<b>(244)</b>	<b>(992)</b>	<b>(6)</b>	<b>(2)</b>	<b>(9)</b>
<b>Economic Factors<sup>(9)</sup></b>						
Canada – North America Onshore	—	4	5	—	—	—
North Sea	—	—	—	—	—	—
<b>Total</b>	<b>—</b>	<b>4</b>	<b>5</b>	<b>—</b>	<b>—</b>	<b>—</b>
<b>Production</b>						
Canada – North America Onshore	(69)	—	(69)	(1)	—	(1)
North Sea	(3)	—	(3)	—	—	—
<b>Total</b>	<b>(72)</b>	<b>—</b>	<b>(72)</b>	<b>(1)</b>	<b>—</b>	<b>(1)</b>
<b>December 31, 2013</b>						
Canada – North America Onshore	50	36	86	1	1	2
North Sea	4	2	7	—	—	—
<b>Total</b>	<b>54</b>	<b>39</b>	<b>92</b>	<b>1</b>	<b>1</b>	<b>2</b>

Please see Notes (1) through (9) at the end of the reserves data section for important information about volumes in this table.

## Notes to Reserves Data Tables

as at December 31, 2013

- (1) See the Notes to Future Net Revenues Tables discussion for information on forecast and constant prices and costs.
  - (2) Reserves data tables may not add due to rounding.
  - (3) Other International includes quantities of crude oil in Libya, which are expected to be produced under EPSAs. Under these EPSAs, net proved and probable reserves have been determined using the economic interest method. See the Definitions for Reserves Data Tables.
  - (4) SCO reserves figures include the company's diesel sales volumes.
  - (5) Includes associated and non-associated gas (combined).
  - (6) Extensions and Improved Recovery are additions to the reserves resulting from step-out drilling, infill drilling and implementation of improved recovery schemes. Negative volumes for probable reserves result from the initial recognition of proved reserves for reserves previously assigned as probable reserves.
  - (7) Technical Revisions include changes in previous estimates resulting from new technical data or revised interpretations.
  - (8) Discoveries are additions to reserves in reservoirs where no reserves were previously booked.
  - (9) Economic Factors are changes due primarily to price forecasts, inflation rates or regulatory changes.
- (b) in relation to wells, the number of wells obtained by aggregating Suncor's working interest in each of the company's gross wells; and
  - (c) in relation to Suncor's interest in a property, the total area in which Suncor has an interest multiplied by the working interest owned by Suncor.

### Definitions for Reserves Data Tables

In the tables set forth above and elsewhere in this AIF, the following definitions and other notes are applicable:

**Gross** means:

- (a) in relation to Suncor's interest in production, reserves and contingent resources, Suncor's working interest (operated and non-operated) share before deduction of royalties and without including any royalty interests of Suncor;
- (b) in relation to wells, the total number of wells in which Suncor has a working interest; and
- (c) in relation to properties, the total area of properties in which Suncor has an interest.

**Net** means:

- (a) in relation to Suncor's interest in production, reserves and contingent resources, Suncor's working interest (operated and non-operated) share after deduction of royalty obligations, plus the company's royalty interests in production, reserves or contingent resources;

### Reserves Categories

The oil, NGL and natural gas reserves estimates presented are based on the definitions and guidelines contained in the Canadian Oil and Gas Evaluation (COGE) Handbook. A summary of those definitions is set forth below.

Reserves are estimated remaining quantities of oil and natural gas and related substances anticipated to be recoverable from known accumulations, as of a given date, based on analyses of drilling, geological, geophysical and engineering data, the use of established technology, and specified economic conditions, which are generally accepted as being reasonable.

Reserves are classified according to the degree of certainty associated with the estimates:

**Proved reserves** are those reserves that can be estimated with a high degree of certainty to be recoverable. It is likely that the actual remaining quantities recovered will exceed the estimated proved reserves.

**Probable reserves** are those additional reserves that are less certain to be recovered than proved reserves. It is equally likely that the actual remaining quantities recovered will be greater or less than the sum of the estimated proved plus probable reserves.

Other criteria that must also be met for the categorization of reserves are provided in the COGE Handbook.

Proved and probable reserves categories may be divided into developed and undeveloped categories:

**Developed reserves** are those reserves that are expected to be recovered (i) from existing wells and installed facilities or, if facilities have not been installed, that would involve a low expenditure (for example, when compared to the cost of drilling a well) to put the reserves on production, or (ii) through installed extraction equipment and infrastructure that is operational at the time of the reserves estimate, if the extraction is by means not involving a well. The developed category may be subdivided into producing and non-producing.

- (a) Developed producing reserves are those reserves that are expected to be recovered from completion intervals open at the time of the estimate. These reserves may be currently producing or, if shut in, they must have

previously been on production, and the date of resumption of production must be known with reasonable certainty.

- (b) Developed non-producing reserves are those reserves that either have not been on production, or have previously been on production but are shut in, and the date of resumption of production is unknown.

**Undeveloped reserves** are those reserves expected to be recovered from known accumulations where a significant expenditure (for example, when compared to the cost of drilling a well) is required to render them capable of production. They must fully meet the requirements of the reserves category (proved or probable) to which they are assigned.

In multi-well pools, it may be appropriate to allocate total pool reserves between the developed and undeveloped categories or to subdivide the developed reserves for the pool between developed producing and developed non-producing. This allocation should be based on the evaluator's assessment as to the reserves that will be recovered from specific wells, facilities and completion intervals in the pool and their respective development and production status.

In the **economic interest method** used for PSCs, Suncor's share of profit revenue plus cost recovery revenue is divided by the associated oil or gas price forecast to determine Suncor's net volume entitlement, or **entitlement reserves**. The entitlement reserves are then adjusted to include reserves relating to income taxes payable by the national oil company on behalf of Suncor. Under this method, reported reserves will increase as commodity prices decrease

(and vice versa), since the production barrels necessary to achieve cost recovery change with the prevailing commodity prices.

#### **Levels of Certainty for Reported Reserves**

The qualitative certainty levels referred to in the definitions above are applicable to individual reserves entities (which refers to the lowest level at which reserves calculations are performed) and to reported reserves (which refers to the highest level sum of individual entity estimates for which reserves are presented). Reported reserves should target the following levels of certainty under a specific set of economic conditions:

- (a) at least a 90% probability that the quantities actually recovered will equal or exceed the estimated proved reserves; and
- (b) at least a 50% probability that the quantities actually recovered will equal or exceed the sum of the estimated proved plus probable reserves.

A quantitative measure of the certainty levels pertaining to estimates prepared for the various reserves categories provides a clearer understanding of the associated risks and uncertainties. However, the majority of reserves estimates are prepared using deterministic methods that do not provide a mathematically derived quantitative measure of probability. In principle, there should be no difference between estimates prepared using probabilistic or deterministic methods. Additional clarification of certainty levels associated with reserves estimates and the effect of aggregation is provided in the COGE Handbook.

## Future Net Revenues Tables and Notes<sup>(1)</sup>

### Net Present Value of Future Net Revenues Before Income Taxes

as at December 31, 2013

(forecast prices and costs)

	(in \$ millions, discounted at % per year)					Unit Value
	0%	5%	10%	15%	20%	(\$/boe)
<b>Proved Developed Producing</b>						
Mining	42 653	27 208	19 172	14 594	11 765	11.48
In Situ	8 800	7 600	6 673	5 939	5 347	22.62
East Coast Canada	1 718	1 648	1 565	1 485	1 413	51.82
North America Onshore	179	152	131	115	103	16.59
<b>Total Canada</b>	<b>53 350</b>	<b>36 609</b>	<b>27 541</b>	<b>22 133</b>	<b>18 628</b>	<b>13.75</b>
North Sea	6 077	5 131	4 456	3 958	3 577	56.30
Other International	—	—	—	—	—	—
<b>Total Proved Developed Producing</b>	<b>59 427</b>	<b>41 740</b>	<b>31 997</b>	<b>26 091</b>	<b>22 206</b>	<b>15.37</b>
<b>Proved Developed Non-Producing</b>						
Mining	—	—	—	—	—	—
In Situ	—	—	—	—	—	—
East Coast Canada	—	—	—	—	—	—
North America Onshore	11	8	6	5	4	9.72
<b>Total Canada</b>	<b>11</b>	<b>8</b>	<b>6</b>	<b>5</b>	<b>4</b>	<b>9.72</b>
North Sea	301	246	210	184	165	54.00
Other International	4 940	3 666	2 884	2 365	1 997	53.69
<b>Total Proved Developed Non-Producing</b>	<b>5 252</b>	<b>3 920</b>	<b>3 101</b>	<b>2 554</b>	<b>2 166</b>	<b>53.23</b>
<b>Proved Undeveloped</b>						
Mining	10 603	1 085	(1 751)	(2 709)	(3 036)	(2.29)
In Situ	30 387	13 972	7 064	3 814	2 127	5.67
East Coast Canada	1 127	920	781	681	606	43.30
North America Onshore	67	41	25	15	8	11.35
<b>Total Canada</b>	<b>42 184</b>	<b>16 018</b>	<b>6 119</b>	<b>1 801</b>	<b>(295)</b>	<b>3.02</b>
North Sea	1 596	1 272	1 023	829	675	40.78
Other International	69	44	28	17	10	30.93
<b>Total Proved Undeveloped</b>	<b>43 849</b>	<b>17 334</b>	<b>7 170</b>	<b>2 647</b>	<b>390</b>	<b>3.49</b>
<b>Proved</b>						
Mining	53 256	28 293	17 421	11 885	8 729	7.16
In Situ	39 187	21 572	13 736	9 753	7 474	8.92
East Coast Canada	2 845	2 569	2 346	2 167	2 019	48.63
North America Onshore	257	201	162	135	115	15.12
<b>Total Canada</b>	<b>95 544</b>	<b>52 635</b>	<b>33 665</b>	<b>23 939</b>	<b>18 338</b>	<b>8.35</b>
North Sea	7 974	6 650	5 689	4 971	4 417	52.62
Other International	5 009	3 710	2 912	2 382	2 007	53.31
<b>Total Proved</b>	<b>108 528</b>	<b>62 994</b>	<b>42 267</b>	<b>31 292</b>	<b>24 762</b>	<b>10.07</b>
<b>Probable</b>						
Mining	33 760	10 492	5 025	3 115	2 234	6.30
In Situ	64 266	16 632	6 407	3 463	2 314	5.10
East Coast Canada	15 373	9 020	5 829	4 013	2 885	27.11
North America Onshore	187	108	66	43	29	8.96
<b>Total Canada</b>	<b>113 587</b>	<b>36 252</b>	<b>17 327</b>	<b>10 634</b>	<b>7 461</b>	<b>7.61</b>
North Sea	3 441	2 424	1 811	1 416	1 146	49.14
Other International	4 593	2 500	1 520	1 009	717	37.70
<b>Total Probable</b>	<b>121 620</b>	<b>41 176</b>	<b>20 658</b>	<b>13 059</b>	<b>9 324</b>	<b>8.78</b>
<b>Proved Plus Probable</b>						
Mining	87 016	38 785	22 446	15 000	10 963	6.95
In Situ	103 452	38 204	20 143	13 216	9 788	7.20
East Coast Canada	18 218	11 588	8 175	6 180	4 904	31.05
North America Onshore	444	309	228	178	144	12.61
<b>Total Canada</b>	<b>209 131</b>	<b>88 886</b>	<b>50 992</b>	<b>34 573</b>	<b>25 799</b>	<b>8.08</b>
North Sea	11 415	9 073	7 500	6 387	5 563	51.73
Other International	9 602	6 210	4 433	3 391	2 724	46.68
<b>Total Proved Plus Probable</b>	<b>230 148</b>	<b>104 170</b>	<b>62 925</b>	<b>44 351</b>	<b>34 086</b>	<b>9.61</b>

Please see Notes (1) and (2) at the end of the Future Net Revenues tables for important information.

## STATEMENT OF RESERVES DATA AND OTHER OIL AND GAS INFORMATION

**Net Present Value of Future Net Revenues After Income Taxes**

as at December 31, 2013

(forecast prices and costs)

	(in \$ millions, discounted at % per year)				
	0%	5%	10%	15%	20%
<b>Proved Developed Producing</b>					
Mining	32 682	20 624	14 426	10 932	8 791
In Situ	7 360	6 349	5 571	4 957	4 464
East Coast Canada	1 414	1 361	1 292	1 225	1 164
North America Onshore	179	152	131	115	103
Total Canada	41 635	28 487	21 420	17 229	14 521
North Sea	1 891	1 602	1 391	1 235	1 116
Other International	—	—	—	—	—
<b>Total Proved Developed Producing</b>	<b>43 526</b>	<b>30 088</b>	<b>22 811</b>	<b>18 464</b>	<b>15 638</b>
<b>Proved Developed Non-Producing</b>					
Mining	—	—	—	—	—
In Situ	—	—	—	—	—
East Coast Canada	—	—	—	—	—
North America Onshore	11	8	6	5	4
Total Canada	11	8	6	5	4
North Sea	114	96	84	75	68
Other International	1 753	1 324	1 059	882	756
<b>Total Proved Developed Non-Producing</b>	<b>1 877</b>	<b>1 428</b>	<b>1 149</b>	<b>962</b>	<b>828</b>
<b>Proved Undeveloped</b>					
Mining	8 725	886	(1 461)	(2 256)	(2 528)
In Situ	22 399	9 872	4 724	2 358	1 157
East Coast Canada	902	716	594	508	445
North America Onshore	67	41	25	15	8
Total Canada	32 093	11 515	3 882	625	(917)
North Sea	611	498	409	337	278
Other International	24	15	10	6	3
<b>Total Proved Undeveloped</b>	<b>32 728</b>	<b>12 028</b>	<b>4 300</b>	<b>968</b>	<b>(636)</b>
<b>Proved</b>					
Mining	41 407	21 510	12 965	8 676	6 263
In Situ	29 759	16 221	10 295	7 315	5 621
East Coast Canada	2 316	2 077	1 886	1 733	1 609
North America Onshore	257	201	162	135	115
Total Canada	73 739	40 009	25 308	17 859	13 608
North Sea	2 615	2 196	1 883	1 646	1 463
Other International	1 776	1 339	1 069	888	759
<b>Total Proved</b>	<b>78 131</b>	<b>43 544</b>	<b>28 260</b>	<b>20 394</b>	<b>15 830</b>
<b>Probable</b>					
Mining	25 171	7 700	3 631	2 228	1 589
In Situ	47 475	12 066	4 626	2 506	1 675
East Coast Canada	11 427	6 610	4 180	2 795	1 937
North America Onshore	187	108	66	43	29
Total Canada	84 260	26 484	12 503	7 572	5 229
North Sea	1 326	961	737	589	487
Other International	1 607	888	547	368	265
<b>Total Probable</b>	<b>87 194</b>	<b>28 333</b>	<b>13 787</b>	<b>8 529</b>	<b>5 980</b>
<b>Proved Plus Probable</b>					
Mining	66 578	29 210	16 596	10 904	7 852
In Situ	77 234	28 287	14 921	9 822	7 296
East Coast Canada	13 743	8 687	6 065	4 528	3 546
North America Onshore	444	309	228	178	144
Total Canada	158 000	66 493	37 810	25 431	18 837
North Sea	3 942	3 157	2 620	2 235	1 949
Other International	3 384	2 227	1 616	1 256	1 024
<b>Total Proved Plus Probable</b>	<b>165 325</b>	<b>71 878</b>	<b>42 046</b>	<b>28 923</b>	<b>21 810</b>

**Total Future Net Revenues**  
as at December 31, 2013  
(forecast prices and costs)

(in \$ millions, undiscounted)	Revenue	Royalties	Operating Costs	Development Costs	Abandonment Expenses	Future Net Revenues Before Deducting Future Income Tax Expenses	Future Income Tax Expenses	Future Net Revenues After Deducting Future Income Tax Expenses
<b>Proved Developed Producing</b>								
Mining	203 321	21 344	101 174	38 150	—	42 653	9 971	32 682
In Situ	25 287	1 704	11 741	2 852	190	8 800	1 440	7 360
East Coast Canada	4 550	1 227	1 077	157	371	1 718	303	1 414
North America Onshore	465	68	188	1	29	179	—	179
<b>Total Canada</b>	<b>233 623</b>	<b>24 343</b>	<b>114 180</b>	<b>41 160</b>	<b>590</b>	<b>53 350</b>	<b>11 714</b>	<b>41 635</b>
North Sea	8 823	—	2 373	223	149	6 077	4 187	1 891
Other International	—	—	—	—	—	—	—	—
<b>Total Proved Developed Producing</b>	<b>242 446</b>	<b>24 343</b>	<b>116 553</b>	<b>41 383</b>	<b>739</b>	<b>59 427</b>	<b>15 901</b>	<b>43 526</b>
<b>Proved Developed Non-Producing</b>								
Mining	—	—	—	—	—	—	—	—
In Situ	—	—	—	—	—	—	—	—
East Coast Canada	—	—	—	—	—	—	—	—
North America Onshore	24	1	9	3	1	10	—	10
<b>Total Canada</b>	<b>24</b>	<b>1</b>	<b>9</b>	<b>3</b>	<b>1</b>	<b>10</b>	<b>—</b>	<b>10</b>
North Sea	435	—	132	—	3	301	187	114
Other International	6 105	—	772	371	22	4 940	3 188	1 753
<b>Total Proved Developed Non-Producing</b>	<b>6 565</b>	<b>1</b>	<b>913</b>	<b>374</b>	<b>26</b>	<b>5 252</b>	<b>3 374</b>	<b>1 877</b>
<b>Proved Undeveloped</b>								
Mining	70 289	6 977	39 752	12 957	—	10 603	1 878	8 725
In Situ	134 949	18 567	53 411	31 817	766	30 387	7 988	22 399
East Coast Canada	2 835	831	527	317	33	1 127	225	902
North America Onshore	208	26	50	61	3	67	—	67
<b>Total Canada</b>	<b>208 280</b>	<b>26 401</b>	<b>93 740</b>	<b>45 152</b>	<b>803</b>	<b>42 184</b>	<b>10 091</b>	<b>32 093</b>
North Sea	2 720	—	518	561	45	1 596	985	611
Other International	102	—	7	25	0	69	45	24
<b>Total Proved Undeveloped</b>	<b>211 102</b>	<b>26 401</b>	<b>94 265</b>	<b>45 738</b>	<b>849</b>	<b>43 849</b>	<b>11 121</b>	<b>32 728</b>
<b>Proved</b>								
Mining	273 610	28 321	140 926	51 107	—	53 256	11 849	41 407
In Situ	160 236	20 271	65 152	34 669	956	39 187	9 428	29 759
East Coast Canada	7 385	2 058	1 604	474	405	2 845	528	2 316
North America Onshore	697	95	247	65	33	257	—	257
<b>Total Canada</b>	<b>441 927</b>	<b>50 745</b>	<b>207 929</b>	<b>86 316</b>	<b>1 394</b>	<b>95 544</b>	<b>21 805</b>	<b>73 739</b>
North Sea	11 978	—	3 023	784	197	7 974	5 359	2 615
Other International	6 207	—	779	395	23	5 009	3 233	1 776
<b>Total Proved</b>	<b>460 113</b>	<b>50 745</b>	<b>211 732</b>	<b>87 495</b>	<b>1 613</b>	<b>108 528</b>	<b>30 397</b>	<b>78 131</b>
<b>Probable</b>								
Mining	124 256	16 094	58 898	15 504	—	33 760	8 588	25 171
In Situ	227 832	40 307	79 246	43 319	694	64 266	16 791	47 475
East Coast Canada	30 811	7 108	4 214	3 916	201	15 373	3 947	11 427
North America Onshore	532	76	205	54	10	187	—	187
<b>Total Canada</b>	<b>383 432</b>	<b>63 585</b>	<b>142 563</b>	<b>62 792</b>	<b>905</b>	<b>113 587</b>	<b>29 325</b>	<b>84 260</b>
North Sea	4 205	—	676	65	24	3 441	2 115	1 326
Other International	4 945	—	281	68	3	4 593	2 985	1 607
<b>Total Probable</b>	<b>392 583</b>	<b>63 585</b>	<b>143 520</b>	<b>62 925</b>	<b>932</b>	<b>121 620</b>	<b>34 425</b>	<b>87 194</b>
<b>Proved Plus Probable</b>								
Mining	397 866	44 415	199 824	66 611	—	87 016	20 437	66 578
In Situ	388 068	60 578	144 399	77 988	1 650	103 452	26 218	77 234
East Coast Canada	38 196	9 165	5 818	4 390	606	18 218	4 475	13 743
North America Onshore	1 229	171	452	119	43	444	—	444
<b>Total Canada</b>	<b>825 359</b>	<b>114 330</b>	<b>350 492</b>	<b>149 108</b>	<b>2 299</b>	<b>209 131</b>	<b>51 130</b>	<b>158 000</b>
North Sea	16 184	—	3 699	849	221	11 415	7 473	3 942
Other International	11 152	—	1 061	464	25	9 602	6 219	3 384
<b>Total Proved Plus Probable</b>	<b>852 695</b>	<b>114 330</b>	<b>355 252</b>	<b>150 420</b>	<b>2 545</b>	<b>230 148</b>	<b>64 822</b>	<b>165 325</b>

**Future Net Revenues by Production Group**

as at December 31, 2013

(forecast prices and costs)

(before income taxes, discounted at 10% per year)	\$ millions	\$/boe <sup>(3)</sup>
<b><i>Proved Developed Producing</i></b>		
Unconventional – Mining	19 172	11.48
Unconventional – In Situ	6 673	22.62
Total Unconventional <sup>(4)</sup>	25 845	13.15
Light & Medium Oil <sup>(5)</sup>	6 083	54.96
Natural Gas <sup>(6)</sup>	69	10.50
<b>Total Proved Developed Producing</b>	<b>31 997</b>	<b>15.37</b>
<b><i>Proved</i></b>		
Unconventional – Mining	17 421	7.16
Unconventional – In Situ	13 736	8.92
Total Unconventional <sup>(4)</sup>	31 157	7.84
Light & Medium Oil <sup>(5)</sup>	11 036	51.62
Natural Gas <sup>(6)</sup>	74	9.27
<b>Total Proved</b>	<b>42 267</b>	<b>10.07</b>
<b><i>Proved Plus Probable</i></b>		
Unconventional – Mining	22 446	6.95
Unconventional – In Situ	20 143	7.20
Total Unconventional <sup>(4)</sup>	42 589	7.07
Light & Medium Oil <sup>(5)</sup>	20 230	39.86
Natural Gas <sup>(6)</sup>	106	7.73
<b>Total Proved Plus Probable</b>	<b>62 925</b>	<b>9.61</b>

(1) Figures may not add due to rounding.

(2) Unit values are future net revenues before deducting estimated cash income taxes payable, discounted at 10%, using net reserves.

(3) Per unit values are based on the company's net reserves.

(4) Total Unconventional includes SCO and bitumen.

(5) Light &amp; Medium Oil includes associated byproducts, including solution gas and NGLs.

(6) Natural gas includes associated byproducts, including oil and NGLs.

## Notes to Future Net Revenues Tables

### In Situ Future Net Revenues

Future net revenues for In Situ properties reflect the flexibility of Suncor's operations which allows production from these properties to be either upgraded to SCO or sold as non-upgraded bitumen. The proportion of upgraded production is based on estimated available upgrading capacity and can vary depending on unplanned maintenance, fluctuations in production from mining and extraction operations, or changes in the company's overall Oil Sands development strategy, including with respect to planned upgrading capacity.

Future net revenues disclosed above include the estimated uplift to the future sales price and the associated upgrader operating and sustaining capital costs of upgrading approximately 35% of Firebag bitumen production to SCO, from 2014 to 2022, approximately 40% to 2033, and escalating thereafter. These factors translate to a \$2.1 billion increase in future net revenues (total proved plus probable reserves, before tax, discounted at 10%) from In Situ production relative to the scenario where none of the bitumen is upgraded.

Revenues associated with excess power generated from our cogeneration facilities are included to the extent that all or a portion of a cogeneration unit is necessary for the operation of the In Situ property. All other revenue related to excess power generation is excluded from the evaluation for In Situ properties, as it does not represent revenues directly generated from oil and gas activities.

### Prices Realized

For prices realized by Suncor during 2013, please see the Production History section contained within this Statement of Reserves Data and Other Oil and Gas Information.

### Forecast Prices and Costs

Crude oil, natural gas and other important benchmark reference pricing, as well as inflation and exchange rates utilized in the GLJ Reports and the Sproule Reports, are as

per GLJ's price forecast dated January 1, 2014, as set out below. To the extent that there are fixed or presently determinable future prices or costs to which Suncor is legally bound by contractual or other obligations to supply a physical product, including those for an extension period of a contract that is likely to be extended, those prices or costs have been incorporated into the forecast prices as applied to the pertinent properties. The forecast cost and price assumptions include increases in wellhead selling prices, take into account inflation with respect to future operating and capital costs, and assume the continuance of current laws and regulations. Price adjustments relating to factors such as product quality and transportation were applied on an individual property basis in cash flow calculations.

Forecast prices included a US\$/Cdn\$ exchange rate of 0.95, a Cdn\$/€ exchange rate of 1.42 in 2014 and 1.40 thereafter, and a Cdn\$/£ exchange rate of 1.67 in 2014 and 1.65 thereafter. Forecast costs included a 2% inflation factor, except for costs for Mining, which included 4% inflation for 2015 to 2016, 3% inflation for 2017 and 2% thereafter.

### Constant Prices and Costs

For purposes of comparison to those issuers who are required to report reserves estimates using constant prices and costs in accordance with the rules and regulations of the U.S. Securities and Exchange Commission (SEC), Suncor also presents reserves estimates using constant prices and costs. Benchmark prices used for the purpose of disclosing supplementary reserves estimates under constant pricing assumptions are also set out in the table below. Prices are based on the arithmetic average of the first-day-of-the-month price for the product for each month of 2013.

Constant prices included a US\$/Cdn\$ exchange rate of 0.97, a Cdn\$/€ exchange rate of 1.36 and a Cdn\$/£ exchange rate of 1.61.

Prices Impacting Reserves Tables<sup>(1)</sup>

Forecast	Brent North Sea <sup>(2)</sup>	WTI Cushing Oklahoma	WCS Hardisty Alberta <sup>(3)</sup>	Light Sweet Edmonton Alberta <sup>(4)</sup>	Pentanes Plus Edmonton Alberta <sup>(5)</sup>	AECO Gas <sup>(6)</sup>	B.C. Gas Westcoast Station 2 <sup>(7)</sup>	National Balancing Point North Sea <sup>(8)</sup>
Year	US\$/bbl	US\$/bbl	Cdn\$/bbl	Cdn\$/bbl	Cdn\$/bbl	Cdn\$/mmbtu	Cdn\$/mmbtu	Cdn\$/mmbtu
2014	107.50	97.50	75.60	92.76	105.20	4.03	3.88	11.32
2015	107.50	97.50	79.36	97.37	107.11	4.26	4.11	11.32
2016	105.00	97.50	81.50	100.00	107.00	4.50	4.35	11.05
2017	102.50	97.50	81.50	100.00	107.00	4.74	4.59	10.79
2018	102.50	97.50	81.50	100.00	107.00	4.97	4.82	10.79
2019	102.50	97.50	81.50	100.00	107.00	5.21	5.06	10.79
2020	102.50	98.54	82.13	100.77	107.82	5.33	5.18	10.79
2021	103.38	100.51	83.76	102.78	109.97	5.44	5.29	10.88
2022	105.45	102.52	85.44	104.83	112.17	5.55	5.40	11.10
2023	107.56	104.57	87.14	106.93	114.41	5.66	5.51	11.32
2024+	+2.0%/year	+2.0%/year	+2.0%/year	+2.0%/year	+2.0%/year	+2.0%/year	+2.0%/year	+2.0%/year
Constant	US\$/bbl	US\$/bbl	Cdn\$/bbl	Cdn\$/bbl	Cdn\$/bbl	Cdn\$/mmbtu	Cdn\$/mmbtu	Cdn\$/mmbtu
All years	109.05	96.90	73.66	91.50	103.39	3.10	3.06	10.74

- (1) Each price from the GLJ forecast was adjusted for quality differentials and transportation costs applicable to the specific product and evaluation area.
- (2) Price used when determining light and medium oil reserves presented as East Coast Canada reserves, North Sea reserves and Other International reserves.
- (3) Price used when determining bitumen reserves presented as In Situ and Mining reserves, as well as for determining bitumen pricing for royalty calculation purposes.
- (4) Price used when determining SCO reserves presented as In Situ and Mining reserves, and light and medium oil reserves presented as North America Onshore reserves.
- (5) Price used when determining the cost of diluent associated with bitumen reserves presented as In Situ and Mining reserves, as well as for determining bitumen pricing for royalty calculation purposes. A bitumen/diluent ratio of approximately two to three barrels of bitumen for one barrel of diluent was used. Price also used when determining certain NGL reserves.
- (6) Price used when determining natural gas reserves in Alberta presented as North America Onshore reserves. Price also used when determining natural gas input costs for the production of SCO and bitumen reserves.
- (7) Price used when determining natural gas reserves in B.C. presented as North America Onshore reserves.
- (8) Price used when determining natural gas reserves presented as North Sea reserves.

### Disclosure of After-Tax Net Present Values of Future Net Revenue

Values presented in the table for Net Present Value of Future Net Revenues After Income Taxes reflect income tax burdens of assets at an individual asset level (for Mining, In Situ and East Coast Canada) or at a business area or legal entity level (for North Sea and North America Onshore) based on tax pools associated with that business area or legal entity. Income taxes for Other International assets are

determined by their respective EPSAs. Suncor's actual corporate legal entity structure for income taxes and income tax planning has not been considered, and, therefore, the total value for income taxes presented in the table may not provide an estimate of the value at the corporate entity level, which may be significantly different. The 2013 audited Consolidated Financial Statements and the MD&A should be consulted for information on income taxes at the corporate entity level.

## Future Development Costs

as at December 31, 2013

(forecast prices and costs)

(\$ millions)	2014	2015	2016	2017	2018	Remainder	Total	Discounted At 10%
<b>Proved</b>								
Mining	3 141	3 785	3 641	2 780	1 927	35 833	51 107	23 816
In Situ	1 333	1 013	926	1 026	1 052	29 319	34 669	12 471
East Coast Canada	241	47	14	50	17	106	475	380
North America Onshore	18	14	22	11	—	—	65	54
Total Canada	4 733	4 859	4 603	3 867	2 996	65 258	86 316	36 721
North Sea	352	210	56	12	10	144	784	661
Other International	64	37	27	20	13	234	395	220
<b>Total Proved</b>	<b>5 149</b>	<b>5 106</b>	<b>4 686</b>	<b>3 899</b>	<b>3 019</b>	<b>65 636</b>	<b>87 495</b>	<b>37 602</b>
<b>Proved Plus Probable</b>								
Mining	3 220	3 869	3 729	2 895	2 046	50 852	66 611	26 119
In Situ	1 418	1 274	1 182	830	1 227	72 056	77 987	15 047
East Coast Canada	1 238	814	667	390	251	1 030	4 390	3 331
North America Onshore	50	18	32	19	—	—	119	102
Total Canada	5 926	5 975	5 610	4 134	3 524	123 938	149 107	44 599
North Sea	386	233	56	13	10	151	849	716
Other International	64	37	31	23	13	296	464	234
<b>Total Proved Plus Probable</b>	<b>6 376</b>	<b>6 245</b>	<b>5 697</b>	<b>4 170</b>	<b>3 547</b>	<b>124 385</b>	<b>150 420</b>	<b>45 549</b>

Development costs include costs associated with both developed and undeveloped reserves. Significant development activities and costs for 2014 are expected to include:

- For Mining, development of tailings management facilities and water management assets for Oil Sands Base and development of tailings management facilities and costs for mine train replacements at Syncrude. Remaining development costs for Oil Sands Base and Syncrude relate to capital investments that maintain the production capacity of existing facilities, including, but not limited to, major maintenance at Syncrude, routine maintenance, truck and shovel replacement, the replenishment of catalysts in hydrotreating units at the upgraders and improvements to utilities, roads and other facilities. Development activities for Fort Hills are expected to focus on detailed engineering, procurement, and ramp-up of field construction activities.
- For both Firebag and MacKay River operations within In Situ, the drilling of new well pairs and the design and construction of new well pads that are expected to maintain existing production levels in future years.

Development activities for Firebag also include infill well drilling. Development activities at MacKay River are also expected to include a facility debottleneck, which is expected to increase production capacity by 20% to 38,000 bbls/d by the end of 2015.

- For East Coast Canada, construction and development drilling activities at Hebron, development drilling at Terra Nova, White Rose, Hibernia, and HSEU, installation of subsea infrastructure for the South White Rose Extension, and continuation of H<sub>2</sub>S remediation activities at Terra Nova.
- For North Sea, at Buzzard, development drilling and facility upgrades, and at Golden Eagle, development drilling and the installation of subsea infrastructure.
- For North America Onshore, the development of the Wilson Creek field in the Cardium oil formation.
- For Other International, development drilling, and upgrades and maintenance to facilities in Libya.

Management currently believes existing cash balances, internally generated cash flows and existing credit facilities are sufficient to fund future development costs. There can be no guarantee that funds will be available or that Suncor

will allocate funding to develop all of the reserves attributed in the GLJ Reports and the Sproule Reports. Failure to develop those reserves would have a negative impact on future cash flow from operating activities.

The interest or other costs of external funding are not included in the reserves and future net revenue estimates and would reduce reserves and future net revenue to some degree depending upon the funding sources utilized. Suncor does not anticipate that interest or other funding costs would make development of any property uneconomic.

#### **Abandonment and Reclamation Costs**

The company completes an annual review of its abandonment and reclamation costs as they relate to its overall operations. This review considers the nature of Suncor's forecasted production and development plans, consistent with that assumed in our long-range planning, where determinable, for liabilities associated with its upstream operations as at December 31, 2013. Where no legal liability or constructive obligation for reclamation exists, potential costs have been excluded from the company's abandonment and reclamation cost estimates. Estimates are based on the anticipated method and extent of restoration, consistent with legal requirements, technological advances and the possible future use of the site.

At December 31, 2013, Suncor estimated its undiscounted, uninflated abandonment and reclamation costs, net of estimated salvage value, for surface leases, wells, facilities

and pipelines pertaining to its upstream assets to be approximately \$7.8 billion (discounted at 10%, approximately \$2.1 billion). Suncor estimates that it will incur \$1.1 billion of its identified abandonment and reclamation costs during the next three years (undiscounted: 2014 – \$0.4 billion, 2015 – \$0.4 billion, 2016 – \$0.4 billion), over 77% of which is associated with Oil Sands mining operations. This cost estimate does not include the company's estimated abandonment and reclamation costs for its Refining and Marketing assets (\$0.2 billion, undiscounted and uninflated).

Approximately \$2.5 billion (undiscounted) has been deducted as abandonment costs in estimating the future net revenues from proved plus probable reserves. This \$2.5 billion represents the abandonment obligation for approximately 2,200 net production wells and approximately 2,000 net service and other wells, including a forecasted number of future wells for undeveloped reserves related to in situ and conventional activities that are not included in Suncor's \$7.8 billion total.

Abandonment and reclamation costs included in Suncor's \$7.8 billion total that are excluded from the determination of future net revenues from reserves include, but are not limited to, costs related to the reclamation of disturbed land from oil sands mining activities, the treatment of oil sands tailings, the decommissioning of oil sands and natural gas processing facilities and well pads, lease sites and the abandonment of wells for which no reserves have been assigned.

### Additional Information Relating to Reserves Data

#### Gross Proved and Probable Undeveloped Reserves

The tables below outline the gross proved and probable undeveloped reserves and represent undeveloped reserves

additions, resulting from acquisitions, discoveries, infill drilling, improved recovery and/or extensions pertaining to the year in which the events first occurred.

#### Gross Proved Undeveloped Reserves

(forecast prices and costs)

	Prior		2011		2012		2013	
	First Attributed	Total at December 31 2010	First Attributed	Total at December 31 2011	First Attributed	Total at December 31 2012	First Attributed	Total at December 31 2013
<b>SCO (mmbbls)</b>								
Mining	—	—	—	—	—	—	—	—
In Situ	651	651	—	502	46	493	75	564
<b>Total SCO</b>	<b>651</b>	<b>651</b>	<b>—</b>	<b>502</b>	<b>46</b>	<b>493</b>	<b>75</b>	<b>564</b>
<b>Bitumen (mmbbls)</b>								
Mining	—	—	—	—	—	—	845	845
In Situ	360	360	315	661	64	785	74	875
<b>Total Bitumen</b>	<b>360</b>	<b>360</b>	<b>315</b>	<b>661</b>	<b>64</b>	<b>785</b>	<b>918</b>	<b>1 720</b>
<b>Light &amp; Medium Oil (mmbbls)</b>								
East Coast Canada	28	28	1	27	4	32	—	26
North America Onshore <sup>(1)</sup>	—	—	—	—	—	—	2	2
<b>Total Canada</b>	<b>28</b>	<b>28</b>	<b>1</b>	<b>27</b>	<b>4</b>	<b>32</b>	<b>2</b>	<b>27</b>
North Sea	19	19	25	43	—	32	—	25
Other International <sup>(2)</sup>	6	6	2	6	4	4	—	5
<b>Total Light &amp; Medium Oil</b>	<b>53</b>	<b>53</b>	<b>28</b>	<b>76</b>	<b>7</b>	<b>67</b>	<b>2</b>	<b>57</b>
<b>Natural Gas (bcf)</b>								
North America Onshore – Canada <sup>(1)</sup>	118	118	2	79	—	80	4	4
North Sea	1	1	2	3	—	2	—	1
Other International <sup>(2)</sup>	—	—	—	—	—	—	—	—
<b>Total Natural Gas</b>	<b>119</b>	<b>119</b>	<b>4</b>	<b>81</b>	<b>—</b>	<b>82</b>	<b>4</b>	<b>5</b>
<b>NGLs (mmbbls)</b>								
North America Onshore – Canada <sup>(1)</sup>	—	—	—	—	—	—	—	—
North Sea	—	—	—	—	—	—	—	—
Other International <sup>(2)</sup>	—	—	—	—	—	—	—	—
<b>Total NGLs</b>	<b>—</b>	<b>—</b>	<b>—</b>	<b>—</b>	<b>—</b>	<b>—</b>	<b>—</b>	<b>—</b>
<b>Total (mmbbls)</b>	<b>1 084</b>	<b>1 084</b>	<b>343</b>	<b>1 253</b>	<b>117</b>	<b>1 359</b>	<b>996</b>	<b>2 342</b>

**Gross Probable Undeveloped Reserves**

(forecast prices and costs)

	Prior		2011		2012		2013	
	First Attributed	Total at December 31 2010	First Attributed	Total at December 31 2011	First Attributed	Total at December 31 2012	First Attributed	Total at December 31 2013
<b>SCO (mmbbls)</b>								
Mining	215	215	—	263	—	260	—	265
In Situ	400	400	916	1 212	—	1 043	—	1 074
<b>Total SCO</b>	<b>615</b>	<b>615</b>	<b>916</b>	<b>1 475</b>	<b>—</b>	<b>1 303</b>	<b>—</b>	<b>1 339</b>
<b>Bitumen (mmbbls)</b>								
Mining	37	37	—	—	—	—	397	397
In Situ	1 835	1 835	38	669	—	594	—	369
<b>Total Bitumen</b>	<b>1 872</b>	<b>1 872</b>	<b>38</b>	<b>669</b>	<b>—</b>	<b>594</b>	<b>397</b>	<b>766</b>
<b>Light &amp; Medium Oil (mmbbls)</b>								
East Coast Canada	85	85	143	217	4	222	21	235
North America Onshore <sup>(1)</sup>	4	4	1	2	—	—	1	1
<b>Total Canada</b>	<b>89</b>	<b>89</b>	<b>144</b>	<b>219</b>	<b>5</b>	<b>222</b>	<b>22</b>	<b>236</b>
North Sea	15	15	14	17	2	33	—	23
Other International <sup>(2)</sup>	11	11	4	14	8	8	—	9
<b>Total Light &amp; Medium Oil</b>	<b>115</b>	<b>115</b>	<b>161</b>	<b>251</b>	<b>14</b>	<b>262</b>	<b>22</b>	<b>267</b>
<b>Natural Gas (bcf)</b>								
North America Onshore – Canada <sup>(1)</sup>	136	136	3	87	1	49	15	19
North Sea	1	1	1	2	—	3	—	2
Other International <sup>(2)</sup>	240	240	221	347	—	—	—	—
<b>Total Natural Gas</b>	<b>377</b>	<b>377</b>	<b>226</b>	<b>436</b>	<b>1</b>	<b>52</b>	<b>15</b>	<b>21</b>
<b>NGLs (mmbbls)</b>								
North America Onshore – Canada <sup>(1)</sup>	1	1	—	1	—	1	—	—
North Sea	—	—	—	—	—	—	—	—
Other International <sup>(2)</sup>	8	8	6	11	—	—	—	—
<b>Total NGLs</b>	<b>9</b>	<b>9</b>	<b>6</b>	<b>12</b>	<b>—</b>	<b>1</b>	<b>—</b>	<b>—</b>
<b>Total (mmboe)</b>	<b>2 673</b>	<b>2 673</b>	<b>1 159</b>	<b>2 480</b>	<b>14</b>	<b>2 170</b>	<b>422</b>	<b>2 376</b>

(1) North America Onshore – Canada includes additional properties previously held by Suncor and subsequently disposed of in 2011 and 2013.

(2) Other International includes additional properties held by Suncor in Syria which were classified as contingent resources in 2012.

(3) Figures above may not add due to rounding.

Undeveloped In Situ reserves, which constitute approximately 61% of Suncor's gross proved undeveloped reserves and 61% of Suncor's gross probable undeveloped reserves, will take several years to develop. Undeveloped In Situ reserves have been assigned to reserves areas which are not classified as developed producing. Where supported by core hole wells, proved undeveloped reserves have been attributed to regions within 1.2 km from currently drilled or near-term planned production wells, where Alberta Energy Regulator (AER) approval is pending, and in the case of Firebag, also within 2.4 km from producing wells. Management uses integrated plans to forecast future development. These detailed plans align current production, processing and pipeline capacities, capital spending commitments and future development for the next ten years, and are reviewed and updated annually for internal and external factors affecting planned activity. The timing associated with developing undeveloped reserves is a function of the forecasts of the declining production from existing In Situ wells. Suncor has delineated In Situ reserves to a high degree of certainty through seismic data and core hole drilling, consistent with COGE Handbook guidelines. In most cases, proved reserves have been drilled to a density of 16 wells per section, which is in excess of the eight wells per section required for regulatory approval. In order to determine the economic cutoffs of undeveloped reserves, geological information is tested against existing production analogues that use established technology.

Undeveloped Mining reserves constitute approximately 36% of Suncor's gross proved undeveloped reserves and

28% of Suncor's gross probable undeveloped reserves, and relate to the Fort Hills mining area and Syncrude Aurora South mining area, which have regulatory approvals substantially in place and are well-delineated by core hole drilling. First oil for the Fort Hills mining area is expected by the fourth quarter of 2017. The co-owners of Syncrude do not expect that the Aurora South mining area will come on-stream before 2024, when production from the Mildred Lake mining area is expected to be complete.

Undeveloped conventional (light and medium oil, natural gas and NGLs) reserves constitute approximately 3% of Suncor's gross proved undeveloped reserves and approximately 11% of Suncor's gross probable undeveloped reserves. Undeveloped conventional reserves primarily relate to the company's offshore assets at East Coast Canada, mainly associated with Hebron which is currently under development (first oil expected in 2017), and underdrilled or undrilled fault blocks related to extension areas in Hibernia, White Rose and Terra Nova. In developing these reserves, Suncor considers existing facility capacity, capital allocation plans and remaining recoverable resources availability. Accordingly, in some cases, it will take longer than two years to develop all of the currently assigned undeveloped conventional reserves. Suncor plans to develop the majority of the conventional proved undeveloped reserves over the next five years and the majority of the conventional probable undeveloped reserves over the next seven years.

#### Properties with no Attributed Reserves

The following table is a summary of properties to which no reserves are attributed as at December 31, 2013. For lands in which Suncor holds interests in different formations under the same surface area pursuant to separate leases, the area has been counted for each lease.

Country	Gross Hectares	Net Hectares
Canada	4 478 244	3 316 732
Libya	2 950 978	1 339 489
U.S. – Alaska	1 106 288	368 726
Norway	648 876	240 847
Syria <sup>(1)</sup>	345 194	345 194
U.K.	127 141	45 454
Australia (overriding royalty interest only)	113 027	—
<b>Total</b>	<b>9 769 748</b>	<b>5 656 442</b>

(1) Does not include hectares for lands associated with reserves that were reclassified to contingent resources in 2012 as a result of the suspension of operations.

Suncor's undeveloped petroleum assets include exploration properties in a very preliminary phase of evaluation, to discovery areas where tenure to the property is held indefinitely on the basis of hydrocarbon test results, but where economic development is not currently possible or has not yet been sanctioned. Certain Mining and In Situ properties may be in a mature phase of evaluation, where a significant amount of development has occurred; however, reserves cannot be attributed due to one or more contingencies, such as project sanction. In many cases where reserves are not attributed to lands containing one or more discovery wells, the key limiting factor is the lack of available production infrastructure. Each year, as part of the company's management process to review the

economic viability of its properties, some properties are selected for further development activities, while others are temporarily deferred, sold, swapped or relinquished back to the mineral rights' owner.

In 2014, Suncor's rights to 135,696 net hectares in Canada, 3,565 net hectares in Alaska and 129,258 net hectares in Norway are scheduled to expire. Substantial portions of expiring lands may have their tenure continued beyond 2014 through the conduct of work programs and/or the payment of prescribed fees to the rights' owner. No land tenure expiries are scheduled to occur for either Mining or In Situ properties for 2014.

### Oil and Gas Properties and Wells

The following table is a summary of oil and gas wells associated with the company's operations as at December 31, 2013.

	Oil Wells				Natural Gas Wells			
	Producing		Non-Producing <sup>(1)(2)</sup>		Producing		Non-Producing <sup>(1)(2)</sup>	
	Gross	Net	Gross	Net	Gross	Net	Gross	Net
Alberta – In Situ <sup>(3)</sup>	213	213.0	58	58.0	—	—	—	—
Alberta – Conventional	50	32.5	3	2.7	55	26.6	7	4.6
British Columbia	—	—	—	—	38	33.2	6	4.9
Newfoundland	63	16.3	5	1.3	—	—	—	—
North Sea	33	9.9	2	0.6	—	—	—	—
Other International <sup>(4)</sup>	—	—	419	211.1	—	—	6	6.0
<b>Total</b>	<b>359</b>	<b>271.7</b>	<b>487</b>	<b>273.7</b>	<b>93</b>	<b>59.8</b>	<b>19</b>	<b>15.5</b>

(1) Non-producing wells include, but are not limited to, wells where there is no near-term plan for abandonment, wells where drilling has finished, but the well has not been completed, wells requiring maintenance or workover where the resumption of production is not known, and wells that have been shut in and the date of resumption of production is not known with reasonable certainty.

(2) Non-producing wells do not necessarily lead to classification of non-producing reserves, which are described subsequently in this description.

(3) SAGD well pairs are counted as one well. Wells where steam injection has commenced are classified as producing.

(4) Other International includes wells associated with the company's suspended operations in Syria. There are no reserves associated with wells in Syria, only contingent resources. The number assumes that no wells have been damaged since Suncor exited the country in December 2011.

There are no producing wells associated with Mining properties. Suncor has no proved developed non-producing reserves or probable developed non-producing reserves in its Mining reserves.

For In Situ properties, proved non-producing reserves and probable non-producing reserves are associated with wells that have been drilled within the last two years, which require further capital for completion and tie in to facilities to bring the wells on-stream. This capital requirement is significant enough that the reserves are not classified as developed.

Proved plus probable developed non-producing reserves for North America Onshore, East Coast and North Sea are

primarily associated with recently drilled development wells to be brought on production in 2014.

For Other International, non-producing reserves are associated with wells in Libya that are suspended due to political unrest in the country, which resulted in the closure of export terminal operations at eastern Libyan seaports. Production in Libya was shut in as at December 31, 2013, and as such, all associated reserves were classified as non-producing with the assumption that production would resume on April 1, 2014.

### Costs Incurred

The table below summarizes the company's capital expenditures related to its oil and gas activities for the year ended December 31, 2013.

(\$ millions)	Exploration Costs	Proved Property Acquisition Costs	Unproved Property Acquisition Costs	Development Costs	Other Costs <sup>(1)</sup>	Total
Canada – Mining and In Situ	196	—	—	3 881	36	4 113
Canada – East Coast Canada and North America Onshore	14	—	2	979	—	995
Total Canada	210	—	2	4 860	36	5 108
North Sea	190	—	—	270	—	460
Other International	104	—	—	45	—	149
Total	504	—	2	5 175	36	5 717

(1) Other Costs includes infrastructure for pipelines and storage tanks to support marketing logistics and flexibility.

**Exploration and Development Activities**

The table below outlines the gross and net exploratory and development wells the company completed during the year ended December 31, 2013.

Total number of wells completed	Exploratory Wells <sup>(1)</sup>		Development Wells	
	Gross	Net	Gross	Net
<b>Canada – Oil Sands</b>				
Oil	—	—	35	35.0
Service <sup>(2)</sup>	10	10.0	52	52.0
Stratigraphic Test <sup>(3)</sup>	187	74.0	539	292.6
<b>Total</b>	<b>197</b>	<b>84.0</b>	<b>626</b>	<b>379.6</b>
<b>Canada – East Coast Canada and North America Onshore</b>				
Oil	2	0.6	9	4.3
Natural Gas <sup>(4)</sup>	—	—	5	5.0
Dry Hole	—	—	2	0.4
Service <sup>(2)</sup>	—	—	3	0.7
<b>Total</b>	<b>2</b>	<b>0.6</b>	<b>19</b>	<b>10.4</b>
<b>North Sea</b>				
Oil	2	0.8	3	0.9
Dry Hole	1	0.3	1	0.3
Stratigraphic Test <sup>(3)</sup>	—	—	—	—
<b>Total</b>	<b>3</b>	<b>1.1</b>	<b>4</b>	<b>1.2</b>
<b>Other International</b>				
Oil	2	1.0	2	1.0
Dry Hole	3	1.5	—	—
<b>Total</b>	<b>5</b>	<b>2.5</b>	<b>2</b>	<b>1.0</b>

(1) Exploratory wells for Oil Sands include activity related to technology pilot projects.

(2) Service wells for Oil Sands include the injection well in a SAGD well pair, in addition to observation and disposal wells. Service wells for East Coast Canada include water injection wells.

(3) Stratigraphic test wells for Oil Sands include core hole drilling wells. Stratigraphic test wells for offshore properties include appraisal wells.

(4) Natural Gas wells do not reflect four wells drilled in properties that were included as part of the sale of the majority of the company's conventional Natural Gas business, which was effective on January 1, 2013.

Significant exploration and development activities in 2013 included:

- For Mining, core hole drilling programs and other survey work at Oil Sands Base and Syncrude to provide additional information on areas the company expects to mine in the near term.
- For In Situ, the drilling of new well pairs and infill wells at Firebag and MacKay River that are expected to assist in maintaining production levels in future years, core hole drilling programs at MacKay River, Meadow Creek, Firebag and Lewis to further delineate resources, and activity to start up pilot technology projects.
- For East Coast Canada, exploration drilling for Terra Nova and White Rose Extensions, and development drilling for Hibernia, White Rose and the White Rose Extensions.
- For North Sea, exploration drilling for the Romeo, Scotney and Lily prospects, and development, including an appraisal well at Buzzard, all of which are in the U.K. sector of the North Sea.
- For Other International, exploration and oil development wells in Libya.
- For North America Onshore, development drilling of the Wilson Creek field in the Cardium oil formation and the Kobes/Altares area in the Montney shale gas formation.

## Production History

The table below outlines the company's historical production information, by product type. Average price realized is net of transportation costs, but before royalties.

	Three months ended in 2013			
	Mar 31	Jun 30	Sept 30	Dec 31
<b>Canada – Oil Sands<sup>(1)</sup></b>				
Total production (mbbls/d)	389.0	309.4	423.6	446.5
Total In Situ bitumen production (mbbls/d)	165.5	157.5	181.9	182.4
(\$/bbl)				
Average price realized	79.76	85.87	99.49	73.34
Royalties	(4.94)	(3.30)	(10.05)	(4.91)
Total cash operating costs	(35.36)	(46.09)	(33.76)	(37.09)
In Situ cash operating costs	(16.80)	(16.70)	(15.15)	(17.50)
<b>Canada – Light &amp; Medium Oil</b>				
Total production (mbbls/d)	58.4	57.8	62.4	46.3
(\$/bbl)				
Average price realized	112.57	103.68	116.94	116.48
Royalties	(26.61)	(23.70)	(30.23)	(32.77)
Production costs	(9.05)	(11.44)	(9.46)	(15.90)
<b>Netback</b>	76.91	68.54	77.25	67.81
<b>Canada – Natural Gas<sup>(2)</sup></b>				
Total production (mmcf/d)	309	289	273	27
(\$/mcf)				
Average price realized	4.66	5.30	4.28	6.92
Royalties	(0.58)	(0.49)	(0.37)	(0.52)
Production costs	(1.43)	(1.82)	(1.84)	(1.75)
<b>Netback</b>	2.65	2.99	2.07	4.65
<b>North Sea – Light &amp; Medium Oil<sup>(3)</sup></b>				
Total production (mboe/d)	55.3	57.8	50.4	59.8
(\$/boe)				
Average price realized	110.94	99.77	111.00	108.53
Royalties	—	—	—	—
Production costs	(5.80)	(6.29)	(7.64)	(4.94)
<b>Netback</b>	105.14	93.48	103.36	103.59
<b>Other International – Light &amp; Medium Oil</b>				
Total production (mboe/d)	41.9	27.0	13.1	1.0
(\$/boe)				
Average price realized	110.36	104.21	—	—
Royalties	(41.81)	(79.56)	—	—
Production costs	(3.34)	(3.47)	—	—
<b>Netback</b>	65.21	21.18	—	—

- (1) Suncor measures cash operating cost on a production volumes basis for its Oil Sands Operations, which includes more expenses than production costs. For this reason, a netback calculation for SCO and bitumen is not presented in this table. Amounts presented include results from the company's share in the Syncrude joint operation.
- (2) Volumes include NGLs and crude oil from North America Onshore operations.
- (3) Volumes include field production for associated gas and NGLs.

## STATEMENT OF RESERVES DATA AND OTHER OIL AND GAS INFORMATION

The following table provides the production volumes for each of Suncor's significant fields for the year ended December 31, 2013.

	SCO	Bitumen	Light & Medium Oil
	mbbls/d	mbbls/d	mbbls/d
Mining – Suncor	209.7	—	—
Mining – Syncrude	32.0	—	—
Firebag	70.1	53.0	—
MacKay River	2.8	24.9	—
Buzzard	—	—	55.8
Hibernia	—	—	27.1
White Rose	—	—	14.9
Terra Nova	—	—	14.2
<b>Total</b>	<b>314.6</b>	<b>77.9</b>	<b>112.0</b>

**Production Estimates**

The table below outlines the production estimates for 2014 that are included in the estimates of gross proved reserves and gross probable reserves as at December 31, 2013. Production estimates for 2014 for proved plus probable reserves, evaluated as at December 31, 2013: from

Suncor's mining operations (excluding Syncrude) are 252.8 mbbls/d of SCO, approximately 40% of total estimated production for 2014; and from Firebag are 155.9 mbbls/d of SCO and bitumen, approximately 25% of total estimated production for 2014.

	SCO (mbbls/d)		Bitumen (mbbls/d)		Light & Medium Oil (mbbls/d)		Natural Gas (mmcf/d)		NGLs (mbbls/d)	
	Gross	Net	Gross	Net	Gross	Net	Gross	Net	Gross	Net
<b>Canada</b>										
Proved	322.9	301.5	113.0	105.2	49.4	35.6	17.3	15.3	0.4	0.3
Probable	16.3	14.3	25.4	23.7	20.1	15.7	7.5	7.2	0.1	0.1
Proved Plus Probable	339.2	315.8	138.4	128.9	69.4	51.3	24.8	22.5	0.5	0.4
<b>North Sea</b>										
Proved	—	—	—	—	38.5	38.5	3.7	3.7	0.3	0.3
Probable	—	—	—	—	4.6	4.6	0.9	0.9	0.1	0.1
Proved Plus Probable	—	—	—	—	43.1	43.1	4.6	4.6	0.4	0.4
<b>Other International</b>										
Proved	—	—	—	—	30.9	5.8	—	—	—	—
Probable	—	—	—	—	—	—	—	—	—	—
Proved Plus Probable	—	—	—	—	30.9	5.8	—	—	—	—
<b>Total</b>										
Proved	322.9	301.5	113.0	105.2	118.7	79.9	21.0	19.0	0.7	0.6
Probable	16.3	14.3	25.4	23.7	24.7	20.3	8.4	8.1	0.2	0.2
Proved Plus Probable	339.2	315.8	138.4	128.9	143.4	100.2	29.4	27.1	0.9	0.8

## Work Commitments

The practice of governments requiring companies to pledge to carry out work commitments in exchange for the right to carry out exploration for and development of hydrocarbons is common, particularly in unexplored or lightly explored regions of the world. The following table

shows the estimated values of work commitments Suncor has made in regard to the lands it holds as at December 31, 2013. These commitments run through 2015 and are primarily for conducting seismic programs and drilling exploration wells.

Country/Area (\$ millions)	2014	Total
Canada	18	24
North Sea	66	176
Other International	67	371

## Forward Contracts and Transportation Obligations

Suncor may use financial derivatives to manage its exposure to fluctuations in commodity prices; however, Suncor did not consider any financial derivative transactions to be material in 2013. A description of Suncor's use of such instruments is provided in the 2013 audited Consolidated Financial Statements and related MD&A for the year ended December 31, 2013.

## Tax Horizon

In 2013, Suncor was subject to cash tax in the majority of the local jurisdictions in which it generates earnings, including earnings related to its Canadian, North Sea and Other International production. Commencing in 2013, the company was cash taxable in Canada on the majority of its Canadian earnings.

## Contingent Resources

Contingent resources are those quantities of petroleum estimated, as of a given date, to be potentially recoverable from known accumulations using established technology or technology under development, but which are not currently considered to be recoverable due to one or more contingencies. Contingencies may include factors such as economic, legal, environmental, political and regulatory matters, or lack of infrastructure or markets. The contingent resource estimates provided herein are best estimates of the quantities that are potentially recoverable. It is equally likely that the actual remaining quantities recovered will be greater or less than the best estimate. The best estimate of potentially recoverable volumes is generally prepared independent of the risks associated with achieving commercial production.

GLJ conducted independent assessments of Best Estimate contingent resources volumes for all of Suncor's Mining properties and its Firebag, Meadow Creek and Steepbank In Situ properties. For remaining In Situ properties, including MacKay River, GLJ audited assessments of Best Estimate contingent resources volumes (approximately 45%

of In Situ contingent resources) prepared by Suncor's internal qualified reserves evaluators. Sproule Unconventional Limited conducted an independent assessment of Suncor's Best Estimate contingent resources contained in the Montney shale formation of northeast B.C., with an effective date of June 30, 2013. Best Estimate contingent resources for remaining conventional properties were prepared by Suncor's internal qualified reserves evaluators without independent audit or review. All contingent resources estimates were conducted in accordance with the COGE Handbook. The effective date of Suncor's best estimate of contingent resources is as of December 31, 2013, except in the case of the contingent resources contained in the Montney shale formation of northeast B.C., which is as at June 30, 2013, and in the case of Syria, which is as at December 31, 2011.

In 2011, the company's assets in Syria were impacted by political unrest and international sanctions. As a result, volumes previously reported as reserves based on an evaluation conducted by Sproule with an effective date of December 31, 2011 were reclassified to contingent resources in 2012. As the situation in Syria has persisted throughout 2013, the company has not been able to update any information used by Sproule since the 2011 evaluation. The contingent resources estimate for Syria assumes that there has been no production subsequent to Sproule's 2011 evaluation and that infrastructure, including wells and pipelines, existing at December 31, 2011, exist at December 31, 2013. Therefore, these contingent resources are subject to uncertainty arising from any new information or change in circumstances, such as production, changes in asset performance or development activities, about which Suncor and Sproule are unaware.

There is no certainty that all or any portion of the contingent resources will be commercially viable to produce, or as to the timing of any such development. The economic viability of the contingent resources is dependent upon pricing and economic conditions. Estimates of contingent resources have not been adjusted for risk based

STATEMENT OF RESERVES DATA AND OTHER OIL AND GAS INFORMATION

on the chance of development. Significant factors that may change contingent resources estimates include further delineation drilling, future technology improvements, and additional processing capacity.

Generally, the contingencies which may currently prevent the classification of the contingent resources as reserves include:

- The need for higher density core hole drilling to improve the certainty of Mining and In Situ resources;
- The need for further facility design and the associated uncertainty in development costs and timelines;
- The preparation of firm development plans and regulatory applications (including associated reservoir studies and delineation drilling);
- Regulatory approvals; and
- Board, management or partner approval, as applicable, to proceed with development.

The additional facility design work, development plans, reservoir studies and delineation drilling are often completed in the course of preparing the company's

application for regulatory approvals. Once there is a high level of certainty of receiving all regulatory, corporate and co-owner approvals, as applicable, and all other contingencies are removed, the resources may then be reclassified as reserves.

Also, the company has assumed that some Mining and In Situ contingent resources will be upgraded and sold as SCO. To the extent that these volumes are not upgraded, but rather sold as bitumen, contingent resources volumes reported would be lower for SCO and higher for bitumen, and total contingent resources volumes would be higher, because of the yield factor applied to bitumen volumes when upgraded into SCO. Conversely, to the extent that more volumes are upgraded, total contingent resources volumes would be lower.

Suncor's Best Estimate of gross contingent resources are set out in the table below. Gross contingent resource means Suncor's working interest (operated and non-operated) share before deduction of royalties and without including any royalty interests of Suncor.

Best Estimate Contingent Resources	SCO	Bitumen	Light & Medium Oil	Natural Gas	NGLs	Total <sup>(5)</sup>
	mmbbls	mmbbls	mmbbls	bcf	mmbbls	mmboe
Mining	4 610	813	—	—	—	5 423
In Situ	6 070	7 309	—	—	—	13 379
East Coast Canada	—	—	222	2 678	—	668
North America Onshore <sup>(1)(2)</sup>	—	—	35	16 620	238	3 043
Total Canada <sup>(5)</sup>	10 680	8 122	256	19 298	238	22 514
North America Onshore – U.S.	—	—	—	449	—	75
North Sea <sup>(3)</sup>	—	—	52	103	—	69
Other International <sup>(4)</sup>	—	—	397	985	27	588
As at December 31, 2013 <sup>(5)</sup>	10 680	8 122	705	20 836	265	23 245
As at December 31, 2012	11 001	8 109	759	20 205	250	23 486

(1) Includes offshore fields in the Arctic Islands.

(2) Includes contingent resources for the Montney shale formation of northeast B.C., with an effective date of June 30, 2013. The contingent resources associated with this formation include 8,075 bcf of Natural Gas and 214 mmbbls of NGLs.

(3) Includes offshore Norway and the U.K.

(4) Includes contingent resources for Syria of approximately 206 mmboe. A portion of these contingent resources were previously classified as reserves as at December 31, 2011, based on a reserves evaluation prepared by Sproule with an effective date of December 31, 2011. These reserves have been reclassified as contingent resources as a result of Suncor's suspension of operations in Syria and the resources have an effective date of December 31, 2011.

(5) Figures may not add due to rounding.

Contingent resources decreased to 23,245 mmboe at December 31, 2013 from 23,486 mmboe at December 31, 2012, due primarily to the transfer of bitumen volumes related to the Fort Hills mining project to proved plus probable reserves in 2013 upon receipt of project sanction,

partially offset by an increase in the company's In Situ contingent resources due to property acquisitions and additional drilling that added bitumen contingent resources primarily at the company's Lewis property.

Generally, the timing for the economic assessments of contingent resources will be determined by Suncor's long-term resource development plan and its forecast for economic conditions. Management uses integrated plans to forecast future development of resources. These plans align current and planned production, current and forecasted market conditions, processing and pipeline capacities, capital spending commitments and related future development plans. These plans are reviewed and updated annually for internal and external factors affecting these planned activities. In particular, as Suncor's Oil Sands reserves base depletes, the company anticipates that it will look to develop its other Mining and In Situ properties, at which time the assessment of the economic viability of specific properties with contingent resources will be made.

Details of Suncor's contingent resources and a categorization of the contingencies ascribed to these resources are provided below.

#### **Mining Contingent Resources**

Mining contingent resources comprise approximately 23% of Suncor's total contingent resources, with 74% of these contingent resources related to properties in which Suncor has a 100% working interest and the remainder forming part of joint arrangements where Suncor has working interests varying from 12% to 40.8%.

#### ***Economic Contingencies***

The economic status of Suncor's Mining contingent resources is currently undetermined and is dependent on the company's long-term resource development plan and its forecast for economic conditions. Prior to reserves being assigned, these contingent resources require the completion of further resource studies and delineation drilling, and the preparation of development plans and facility designs.

#### ***Non-Technical Contingencies***

The reclassification of Mining contingent resources to reserves is largely contingent upon an assessment that development will be sanctioned and commence within a reasonable time frame. The Joslyn North mining project has substantially all regulatory approvals in place. However, the project has recently applied for regulatory approval of an amended project development plan. As a result, it is Suncor's view that the development of these contingent resources in the near term is not sufficiently assured to support reclassification to reserves.

Suncor's remaining Mining contingent resources are primarily contingent upon regulatory permits which must be obtained before project sanction decisions by Suncor's Board of Directors and/or co-owners, as applicable, are considered.

#### **In Situ Contingent Resources**

In Situ contingent resources comprise approximately 58% of Suncor's total contingent resources, with approximately 85% of these contingent resources related to properties in which Suncor has a 100% working interest and the remainder forming part of joint arrangements where Suncor has working interests varying from 10% to 75%. These contingent resources are all in the Athabasca oil sands area. All In Situ contingent resources are associated with clastic or sandstone formations in the Fort McMurray oil sands area, and approximately 85% of the contingent resources are in, or adjacent to, existing Firebag or MacKay River operations.

The primary risk associated with developing In Situ contingent resources relates to actual reservoir performance versus performance estimated based on geological data. The geological data varies substantially as a result of the density of core holes used in the analyses. The density can be as low as one well per section, and as high as 16 wells per section.

Suncor also owns mineral rights in 288 sections of the Grosmont carbonate formation, all at a 100% working interest. Core hole drilling completed on these sections has identified bitumen in the Grosmont, Upper Ireton and Nisku carbonate formations. In addition, Suncor has acquired data from numerous third-party pilots currently in operation in Grosmont carbonates. However, Suncor has not recognized any contingent resources in carbonate formations, as the viability of potential recovery processes in Suncor's carbonate interests has not yet been established.

#### ***Economic Contingencies***

The economic status of In Situ contingent resources is currently undetermined; however, the company anticipates that the contingent resources will be economic to develop under current market conditions. Technical net pay cutoffs are consistent with, and based upon, the same economic conditions as those used in the determination of proved plus probable reserves for Firebag and MacKay River, or are analogous to existing in situ operations successfully developed by other entities in the oil sands industry. Suncor anticipates that its In Situ contingent resources will be recoverable using established SAGD processes.

Contingent resources have been assigned to certain sections associated with Firebag and MacKay River. These volumes have not been classified as reserves in part because drilling density is inadequate for reliable mapping of effective pay intervals. However, the company has two-dimensional and three-dimensional seismic control, minimum mapped effective pay thicknesses of 15 metres for Firebag and 14 metres for MacKay River, and drilling density greater than or equal to one vertical well per

section (except when that section is bound by sections with greater than or equal to one well per section). The company expects that an assessment of the economic viability of these resources will be undertaken when drilling density has increased such that it is adequate for reliable mapping of effective pay intervals and as the company's long-term plans require additional bitumen to keep existing processing capacities associated with Firebag and MacKay River operations full.

Contingent resources for other In Situ properties (Chard, Kirby, Lewis, Meadow Creek and MacKay River) were assigned to sections with core holes, or lands within two legal subdivisions of a delineation well and net continuous bitumen pay greater than ten to 15 metres, depending on the horizon and property. Within the Athabasca oil sands region, economic production has been demonstrated at these thicknesses. Prior to reserves being assigned, these contingent resources require the completion of further reservoir studies and delineation drilling, and the preparation of development plans and facility designs. The company expects that an assessment of the economic viability of these contingent resources will be undertaken as the company's long-term plans for its upgrading facilities require additional bitumen.

#### ***Non-Technical Contingencies***

The reclassification of In Situ contingent resources to reserves is also largely contingent upon an assessment that development will be sanctioned and commence within a reasonable time frame. Certain contingent resources associated with Firebag and MacKay River have regulatory approvals in place, but final investment decisions are subject to detailed assessments of economic viability and approval by Suncor's Board. For remaining In Situ contingent resources, the company must still obtain regulatory approvals and project sanction by Suncor's Board and/or co-owners, as applicable.

#### **Other Contingent Resources**

Other contingent resources are associated with Suncor's Exploration and Production segment. These other contingent resources comprise approximately 19% of Suncor's total contingent resources and are anticipated to be recoverable using established technologies. These other contingent resources primarily include:

- For North America Onshore, resources in the Montney formation in northeast B.C., the Wilson Creek area in Alberta, the Arctic Islands, the Mackenzie Delta and Corridor, and the Alaska Foothills.
- For East Coast Canada, extensions of existing producing oilfields, natural gas resources associated with existing producing oilfields, and other hydrocarbon

accumulations that are not currently producing, including those offshore Newfoundland and Labrador.

- For North Sea, discoveries offshore Norway and the U.K, including the Northern Terrace area, and an extension from Buzzard.
- For Other International, volumes associated with the company's suspended operations in Syria and, in Libya, undeveloped portions within existing producing fields and other discovered hydrocarbon accumulations that are not currently producing.

#### ***Economic Contingencies***

Except as noted below, the economic status of other contingent resources is undetermined. In general, further reservoir studies and delineation drilling, and preparation of development plans and facility designs are required to make a determination as to whether these contingent resources would be economic under current conditions.

For North America Onshore, contingent resources associated with the Wilson Creek Cardium tight oil play have been determined to be economic. The economic viability of contingent resources in the Montney shale gas formation are undetermined and there are currently no near-term plans for development. The economic status of contingent resources associated with certain fields in the Arctic Islands is undetermined, but some may be economic provided the natural gas resources are able to be delivered to markets outside of North America. Remaining North America Onshore contingent resources are primarily in geographically remote areas and are currently sub-economic due to lack of processing and transportation infrastructure in these areas. These remote areas require commitments to identify the existence of sufficient resources for economic development, following which construction of processing facilities and/or transportation infrastructure would be required, which is not anticipated to occur within the next five years.

For East Coast Canada, contingent resources for Hebron and some for Terra Nova have been determined to be economic. The company anticipates that it will assess the economic viability of contingent resources for Hibernia and White Rose within the next five years, and that these contingent resources will be economic to develop under current market conditions. Timing for completion of economic evaluation of remaining contingent resources is not anticipated to occur within the next five years.

For the North Sea, contingent resources are in the appraisal stage. The economic status of these contingent resources is undetermined, but the company anticipates that it will assess their economic viability within the next five years and that these contingent resources will be economic to develop under current market conditions.

For Other International, contingent resources in Libya associated with developed fields are economic, while the economic viability of resources associated with fields that are not developed is undetermined, but the company anticipates that it will complete economic assessments for these fields in the next five years.

***Non-Technical Contingencies***

The reclassification of contingent resources associated with the Exploration and Production segment to reserves is contingent upon the receipt of appropriate regulatory approvals, and an assessment that development will be sanctioned by Suncor's Board and co-owners, as applicable, and commence within a reasonable time frame. Contingent resources for some North America Onshore properties in

geographically remote areas are also contingent upon the development of a suitable regulatory framework.

As a result of the suspension of Suncor's operations in Syria, volumes classified as reserves at December 31, 2011 are classified as contingent resources at December 31, 2013. For these resources to be reclassified as reserves, sanctions that are applicable to Suncor and that were initiated as a result of political unrest in Syria must be lifted, and the overall political environment must improve and stabilize so that the company can resume business in Syria. In addition, if infrastructure such as pipes and wells were damaged as a result of the political unrest, then the infrastructure will potentially need to be repaired or rebuilt in order to reclassify the resources as reserves.

## INDUSTRY CONDITIONS

The oil and natural gas industry is subject to extensive controls and regulations governing its operations (including land tenure, exploration, environmental, development, production, refining, transportation and marketing) imposed by legislation enacted by various levels of government, and, with respect to export and taxation of oil and natural gas, by agreements among the governments of Canada and Alberta, among others, as well as the governments of the United States and other foreign jurisdictions in which we operate, all of which should be carefully considered by investors in the oil and gas industry. All current legislation is a matter of public record, and the company is unable to predict what additional legislation or amendments may be enacted. All governments have the ability to change legislation. Suncor may engage in the discussion on proposed changes to ensure Suncor's interests are recognized. The following discussion outlines some of the principal aspects of legislation, regulations and agreements governing Suncor's operations.

### Pricing, Marketing and Exporting Crude Oil and Natural Gas

The producers of oil are entitled to negotiate sales and purchase agreements directly with oil purchasers. Most agreements are linked to global oil prices. Global oil prices are set by daily, weekly and monthly physical and financial transactions for crude oil around the world. Those prices are primarily based on worldwide fundamentals of supply and demand. Specific prices depend in part on oil quality, prices of competing fuels, distance to the markets, the value of refined products, the supply/demand balance, and other contractual terms. In Canada, oil exporters are also entitled to enter into export contracts. If the term of an export contract exceeds one year for light crude oil or exceeds two years for heavy crude oil (to a maximum of 25 years), the exporter is required to obtain an export licence from the National Energy Board (NEB). If the term of an export contract does not exceed one year for light crude oil or does not exceed two years for heavy crude oil, the exporter is required to obtain an order approving such export from the NEB.

The price of natural gas is also determined by negotiation between buyers and sellers. Natural gas exported from Canada is subject to regulation by the NEB and the Government of Canada. Exporters are free to negotiate prices and other terms with purchasers, provided that the export contracts continue to meet certain other criteria prescribed by the NEB and the Government of Canada. Natural gas export contracts with a term that exceeds two years (to a maximum of 25 years) require the exporter to obtain an export licence from the NEB. Natural gas (other than propane, butane and ethane) export contracts for volumes of more than 30,000 m<sup>3</sup>/d with a term that does not exceed two years, or export contracts for volumes of

30,000 m<sup>3</sup>/d or less for a term of two to 20 years, must be made pursuant to an NEB order. The Government of Alberta also regulates the volume of natural gas that may be removed from the province for consumption elsewhere based on such factors as reserves availability, transportation arrangements, and market considerations.

Internationally, prices for crude oil and natural gas fluctuate in response to changes in the supply of and demand for crude oil and natural gas, market uncertainty and a variety of other factors beyond Suncor's control. These factors include, but are not limited to, the actions of OPEC, world economic conditions, government regulation, political developments, the foreign supply of oil, the price of foreign imports, the availability of alternate fuel sources and weather conditions.

### Pipeline Capacity

Although pipeline expansions are ongoing, the apportionment of capacity on pipeline systems can occur from time-to-time, due to pipeline and downstream operating problems, affecting the ability to market crude oil and natural gas. Most of the current apportionments, however, are due to significant demand which far exceeds current pipeline capacity. Oil and natural gas producers in North America and, particularly in Canada, currently receive discounted prices for their production relative to certain international prices, due to constraints on the ability to transport and sell such products to international markets.

Recently, pipeline capacity to support the growth of the oil and natural gas industry in Canada has been the subject of political and environmental debate. Suncor supports the responsible development of additional pipeline infrastructure that would open access to other markets.

### Royalties, Incentives and Income Taxes

#### Canada

In addition to federal regulation, each province has legislation and regulations governing land tenure, royalties, production rates, environmental protection, and other matters. The royalty regime is a significant factor in the profitability of SCO, bitumen, crude oil, NGL and natural gas production. Royalties on production from lands other than Crown lands are determined by negotiations between the mineral freehold owner and the lessee, although production from such lands may be subject to certain provincial taxes. Crown royalties are determined by governmental regulation, which are subject to change as a result of numerous factors, including political considerations, and are generally calculated as a percentage of revenues received from the value of the gross production. The royalty rate generally depends in part on prescribed reference prices, well productivity, geographical location, field discovery date, method of

recovery, depth of well, and the type or quality of the petroleum product produced. Other royalties and royalty-like interests are, from time-to-time, carved out of the owner's working interest through non-public transactions. These are often referred to as overriding royalties, gross overriding royalties, net profits interests or net carried interests.

Occasionally, the governments of the western Canadian provinces create incentive programs for exploration and development. Such programs provide for royalty rate reductions, royalty holidays and tax credits, and are generally introduced when commodity prices are low. The programs are designed to encourage exploration and development activity by improving earnings and cash flow within the industry. Royalty holidays and reductions would reduce the amount of Crown royalties paid by oil and gas producers to the provincial governments and would increase the net income and funds from operations of such producers.

The Canadian federal corporate income tax rate levied on taxable income was 15% for active business income, including resource income. The average provincial income tax rate for Suncor in 2013 was 10.64%.

#### **Other Jurisdictions**

Operations in the U.S. are subject to the U.S. federal tax rate of 35% and various state-level taxes, primarily 4.63% in Colorado.

There are no royalties on production from the U.K. sector of the North Sea; however, the income tax rate on oil and gas profits is 62%.

Suncor earns refundable tax credits related to eligible exploration spending in Norway at a rate of 78%.

Amounts presented in the 2013 audited Consolidated Financial Statements as royalties for production from our Libya operations are determined pursuant to EPSAs. The amounts calculated reflect the difference between Suncor's working interest in the particular project and the net revenue attributable to Suncor under the terms of the respective EPSAs. All government interests in these operations, except for income taxes, are presented as royalties.

Under our EPSAs in Libya, income taxes are payable. Suncor prepares corporate income tax declarations that are processed by the NOC who, in turn, obtains a tax clearance certificate from tax authorities that is forwarded to Suncor. The NOC remits taxes on Suncor's behalf. Until tax certificates are received, Suncor records both an income tax payable to the taxation authority and an offsetting receivable from the NOC.

#### **Land Tenure**

In Canada, petroleum, bitumen and natural gas located in the western provinces are owned predominantly by the respective provincial governments. Provincial governments grant rights to explore for and produce oil and natural gas pursuant to leases, licences and permits for varying terms, and on conditions set forth in provincial legislation, including requirements to perform specific work or make payments. Oil and natural gas located in such provinces can also be privately owned, and rights to explore for and produce such oil and natural gas are granted by lease on such terms and conditions as negotiated. In frontier areas of Canada, the mineral rights are primarily owned by the Canadian federal government, which, either directly or through shared jurisdiction agreements with the relevant provincial authorities, grants tenure in the form of exploration, significant discovery and production licences.

In many other international jurisdictions, petroleum and natural gas are most commonly owned by national governments that grant rights in the form of exploration licences and permits, production licences, PSCs and other similar forms of tenure. In all cases, Suncor's right to explore, develop and produce petroleum and natural gas is subject to ongoing compliance with the regulatory requirements established by the relevant country.

#### **Environmental Regulation**

The company is subject to environmental regulation under a variety of Canadian, U.S., U.K. and other foreign, federal, provincial, territorial, state and municipal laws and regulations. These regulatory regimes are laws of general application that apply to Suncor and other companies in the energy industry. The regulatory regimes require Suncor to obtain operating licences and permits in order to operate, and impose certain standards and controls on activities relating to mining, oil and gas exploration, development and production, and the refining, distribution and marketing of petroleum products and petrochemicals. Environmental assessments and regulatory approvals are generally required before initiating most new major projects or undertaking significant changes to existing operations. In addition, this legislation requires that the company abandon and reclaim mine, well and facility sites to the satisfaction of regulatory authorities and, in some cases, this burden may remain with the company even after disposition of an asset to a third party. Compliance with such legislation can require significant expenditures, and a breach of these requirements may result in suspension or revocation of necessary licences and authorizations, civil liability for pollution damage, and the imposition of material fines and penalties. In addition to these specific, known requirements, Suncor expects future changes to environmental legislation, including anticipated legislation for air pollution (Criteria Air Contaminants) and GHG

emissions that will impose further requirements on companies operating in the energy industry.

A number of statutes, regulations and frameworks are under development or have been issued by various provincial regulators that oversee oil sands development, including the Joint Canada-Alberta Implementation Plan for Oil Sands Monitoring, and the Lower Athabasca Regional Plan (LARP) that implements a land-use regime in the Athabasca oil sands region. These statutes, regulations and frameworks relate to such issues as tailings management, water use, air emissions and land use. While the financial implications of statutes, regulations and frameworks under development are not yet known, the company is committed to working with the appropriate regulatory bodies as they develop new policies, and to fully complying with all existing and new statutes, regulations and frameworks as they apply to the company's operations.

In general, there remains uncertainty around the outcomes and impacts of climate change and environmental laws and regulations, whether currently in force or enacted in the future. It is not currently possible to predict the nature of any future requirements or the impact on the company and its business, financial condition, results of operations and cash flow. We continue to actively work to mitigate our environmental impact, including taking action to reduce GHG emissions, investing in renewable forms of energy such as wind power and biofuels, continuing land reclamation activities, installing new emissions abatement equipment, investing in research and development and working to advance other environmental technologies such as carbon capture and sequestration.

The scope of recent environmental regulation and initiatives has had an impact on many areas important to Suncor's operations, some of which are summarized in the following subsections:

### **Climate Change**

Suncor operates in many jurisdictions that have regulated, or have proposed to regulate, industrial GHG emissions. Those jurisdictions that have regulated GHG emissions generally support policies based on (i) caps on the intensity of GHG emissions including absolute GHG emissions limits, (ii) a cap-and-trade system, (iii) a tax, (iv) a hybrid of a tax and a cap-and-trade system, and (v) policies including other measures such as low carbon fuel and renewable fuel standards. Suncor participates in the consultation process for the design of proposed regulations and other efforts to harmonize regulations across jurisdictions within North America, both directly with government and indirectly through industry associations.

### **International Climate Change Agreements and Treaties**

In 2012, the Government of Canada announced that it would not sign up for the second Kyoto Commitment Period commencing 2013. However, Canada has committed, pursuant to an agreement at the United Nations Framework Convention on Climate Change Conference of the Parties (UNFCCC COP) held in Copenhagen, Denmark, in 2009 (Copenhagen Accord), to reducing its GHG emissions by 17% below 2005 levels by 2020, in line with the reduction commitment made by the U.S. The Copenhagen Accord does not contain any binding commitments for reducing CO<sub>2</sub> emissions, nor does it include any discussion of compliance mechanisms. The 2013 UNFCCC COP, held in Warsaw, Poland, continued to focus on creating a process and plan for all UN members to get to an agreement on 2020 commitments by the 2015 UNFCCC COP to be held in Paris. Countries were asked to either pledge emissions reductions or contribute financially.

### **Canadian Federal GHG Regulations**

The Government of Canada has already implemented regulation on two of Canada's largest sources of emissions, being transportation and thermal electricity generated from coal (which includes petroleum coke). In line with the U.S., Canada has adopted a renewable fuels standard, mandating that 5% of gasoline supply come from renewable sources such as ethanol and that 2% of diesel supply come from bio-diesel. The Canadian federal government continues to address emissions of specific sectors of the economy and is engaged in negotiations with the Canadian oil and gas industry on proposed regulations for the sector while ensuring the industry remains globally competitive. It is expected that provincial governments will enter into equivalency agreements for their own regulations with regard to a future federal regulation.

### **Canadian Provincial GHG Regulations**

In the absence of a federal GHG emissions policy, various Canadian provinces have responded with their own GHG emissions reduction targets and passed legislation enabling regulation of large GHG emitters. Suncor is committed to fully complying with existing regulations and will continue to constructively engage the appropriate governmental bodies in meaningful dialogue in an effort to develop a harmonized system which focuses on achieving actual reduction goals and sustainable resource development.

In July 2007, pursuant to the *Specified Gas Emitters Regulation (SGER)* enacted under the *Climate Change and Emissions Management Act (Alberta)*, facilities in Alberta, emitting more than 100,000 tonnes of CO<sub>2</sub> equivalent (CO<sub>2e</sub>) per year are subject to intensity limits

(GHG emissions per unit of production) and are required to reduce their intensity limits by 12% from an established baseline. With the divestiture of the Hanlan gas processing plant in 2013, four facilities now operated by Suncor in Alberta (Oil Sands Base plants, MacKay River operations, Firebag operations and the Edmonton refinery) are subject to, and continue to comply with, this legislation. For 2012, the total cost to comply with the SGER was approximately \$20.5 million based on \$15/tonne of CO<sub>2e</sub>. Compliance under the SGER was achieved through reduced emissions per unit of production, and purchase and retirement of offset credits and payments to Alberta's Climate Change and Emissions Management Fund (Alberta Technology Fund). For 2014, the total compliance costs to Suncor are estimated to be between \$20 million and \$25 million, based on a cost of \$15/tonne of CO<sub>2e</sub>. The SGER is set to expire in September 2014. The Alberta government has indicated that the regulation will likely be renewed although any renewal may include changes such as increased intensity limits, decreased emissions thresholds and increased costs to the Alberta Technology Fund beyond the current \$15/tonne of CO<sub>2e</sub>.

Several Canadian provinces (including British Columbia, Ontario and Quebec) are members of the Western Climate Initiative (WCI), a multi-jurisdictional partnership, whose members also include individual U.S. states, created in 2007 to address climate change.

The Province of British Columbia enacted a carbon tax in 2008, which began at \$10/tonne of CO<sub>2e</sub> and escalated by \$5/tonne per year until 2012 when it reached its maximum of \$30/tonne. This carbon tax is revenue neutral, in that revenues are recycled back to taxpayers via tax reductions, and is applied on consumption. Under these regulations, Suncor's natural gas production and gathering facilities in B.C. are classified as one facility, which in aggregate in prior years has exceeded the 25,000 tonne threshold that requires the reporting of emissions to be verified by third parties. As a result of Suncor's divestiture of various natural gas assets in 2013, the threshold for third-party verification is no longer met, but reporting of emission levels on its remaining properties remains a requirement. Similarly, Suncor's refined product distribution terminals in B.C. are required to report emissions, but do not exceed the threshold that requires third-party verification.

In 2007, Quebec introduced a tax on hydrocarbon production and imports, with the revenues going into a Green Fund, to support transit and other emissions-reducing projects. This tax impacts Suncor's refining and marketing activities in the province.

Suncor's Montreal refinery is subject to Quebec's cap-and-trade system for GHG emissions because it produces more than 25,000 tonnes of CO<sub>2e</sub> per year. Emitters must verify their emissions during specified

compliance periods (the first period having commenced January 1, 2013 and ending December 31, 2014), and must either reduce their emissions or purchase eligible compliance mechanisms to cover their emissions above a specified cap. Quebec is responsible for setting the cap for the province and allocating allowances to emitters in its jurisdiction. As of January 1, 2014, Quebec's cap-and-trade system became formally linked to the WCI. Allowances and offsets are fungible across the WCI, such that Quebec-issued allowances and offsets can be bought and sold with the larger trading system, which currently consists solely of Quebec and California. It is anticipated that the Green Fund will eventually be replaced by the cap-and-trade system.

Ontario continues to consult with stakeholders on the development of a GHG reduction program for Ontario's industrial sector, intended to achieve equivalency with federal government regulation. Suncor's assets in Ontario include a refinery, a biofuel plant and a lubricants plant.

#### **U.S. GHG Regulations**

In an effort to build a green economy, the current administration of the United States has supported a clean energy standard that would reduce GHG emissions from the power sector and increase the use of cleaner sources of energy, including natural gas, nuclear power and "clean" coal. It is expected that the President's Administration will work to advance his 2013 Climate Action Plan to reduce GHG emissions. In the absence of other federal legislation on GHG emissions, the current administration of the United States is endorsing the U.S. Environmental Protection Agency (EPA) to regulate GHG emissions under the *Clean Air Act*, starting with the thermal power sector. The implications of the oil and gas industry being regulated under the EPA and the timing of such regulation remain unknown. In the meantime, the EPA has implemented a mandatory GHG reporting rule for all large facilities (emitting greater than 25,000 tonnes of CO<sub>2e</sub> per year), which includes Suncor's Commerce City refinery.

The EPA has also mandated Renewable Fuel Standards 2, which encourages ethanol blending of up to 15% from the current 10% limit. Several factors will impact the ability of refiners and producers to achieve these requirements, including the lead time required for fleet turnover, the ability of retail stations to simultaneously provide both 10% and 15% fuels, and the inherent liability for ensuring consumers use the appropriate fuel for their vehicle.

The State of California has passed AB32, which provides for a Low Carbon Fuel Standard (LCFS). In December 2011, the United States District Court ruled against California's LCFS, stating that it was in violation of the Commerce Clause of the United States Constitution. The State of California successfully appealed the ruling in 2013. The

State of California is now considering different compliance pathways for regulated parties.

#### **International Regulations**

Phase III (2008-2012) of the European Union Emissions Trading Scheme (EU ETS), which is applicable until 2020, impacts Suncor's non-operated offshore assets in the U.K. and Norway sectors of the North Sea. The EU ETS requires that member countries set emissions limits for installations in their country covered by the scheme and assigns such installations an emissions cap. Installations may meet their cap by reducing emissions or by buying allowances from other participants. Phase III will include a transition from gratis allocation to auctioning allowances.

#### **Land Use**

In 2012, the Government of Alberta approved the LARP, which covers land-use restrictions in the Lower Athabasca region of Alberta, which includes leases in Suncor's Oil Sands segment. The LARP, developed as part of the Land-Use Framework (LUF) under the *Alberta Land Stewardship Act*, identifies new conservation areas, as well as management frameworks to ensure the continued regional quality of air, surface water and groundwater. The new conservation areas do not overlap any of Suncor's leases. The management frameworks formalize a number of regulatory tools that are already used by the government to manage environmental aspects of oil sands development, including the use of environmental cumulative effects management on a regional scale, and may require Suncor to have greater participation in the evaluation of environmental issues. The frameworks include the following:

- **Air quality.** The framework is designed to maintain flexibility and to manage cumulative effects of development on air quality within the region, setting triggers and limits for nitrogen dioxide (NO<sub>2</sub>) and sulphur dioxide (SO<sub>2</sub>). The framework includes ambient air quality triggers and limits. Regulatory actions will occur when triggers or limits are reached or exceeded.
- **Surface water quality.** The framework builds on, but does not replace, existing provincial legislation and policy on water quality, and provides a framework in which to monitor and manage long-term, cumulative changes in water quality within the Lower Athabasca River. The framework includes quality limits and triggers for various indicators, based on existing Alberta, Canadian Council of Ministers of the Environment, Health Canada and U.S. EPA guidelines. Regulatory actions will occur when triggers or limits are reached or exceeded.
- **Groundwater.** The framework aims to manage non-saline groundwater resources in a sustainable

manner and protect resources from contamination and over-use. The framework aims to ensure timely detection of key changes to indicators and describes the management response that will be initiated if triggers or limits, including site-specific measures, are reached or exceeded.

#### **Reclamation and Tailings**

In February 2009, the Energy Resources Conservation Board (ERCB), now the Alberta Energy Regulator or AER, of Alberta released Directive 74 *Tailings Performance Criteria and Requirements for Oil Sands Mining Schemes*. The directive establishes performance criteria for tailings operations and requirements for the approval, monitoring and reporting of tailings ponds and plans. Suncor's new tailings management strategy – TRO™ – was approved by the ERCB in June 2010. Suncor's mine plan is designed to facilitate the implementation of TRO™ by providing space for the drying of tailings and ensuring adequate storage capacity for tailings from the Millennium and North Steepbank areas. Syncrude's tailings management plan was approved by the ERCB in 2010 and incorporates a multi-pronged approach that includes freshwater capping, composite tailings technology (accelerates water from tailings with additives), and the separation of water and tailings through the use of centrifuges.

The Government of Alberta also has in place the Mine Financial Security Program (MFSP), which holds oil sands miners responsible for all aspects of the remediation and surface reclamation work at their mine sites, and for the custody of the site until a reclamation certificate has been issued by the government. The MFSP requires a base amount of security for each project in the form of letters of credit, which would provide the funds necessary to safely secure the site. Suncor is in compliance with the MFSP. Additional security may be required under other conditions, such as failure to meet current reclamation plans, or when the estimated remaining production life of the mine reaches certain levels; however, Suncor has not been required to provide any additional security. The MFSP has been designed by the Government of Alberta to include a periodic review of the program to ensure it is functioning properly and provide early warning of any potential risks.

#### **Hydraulic Fracturing**

Hydraulic fracturing is the process of pumping a fluid or a gas under pressure down a well, which causes the surrounding rock to crack or fracture. The fluid, typically consisting of water, sand, chemicals and other additives, flows into the cracks where the sand remains to keep the cracks open and allow natural gas or liquids to be recovered. Fracturing fluids are produced back to the surface through the wellbore and are stored for reuse or

future disposal in accordance with regional regulations, which may include injection into underground wells.

The Government of Canada manages the use of chemicals through its Chemical Management Plan and New Substances Program. Some provinces require the details of fracturing fluids to be submitted to regulators. In Alberta, the AER requires that all fracturing operations submit information regarding the quantity of fluids and additives, and other Provinces of Canada have, or have indicated that they will in the future, apply similar reporting requirements.

While hydraulic fracturing has been in use for some time, the proliferation of fracturing in recent years to access hydrocarbons in unconventional reservoirs, such as shale formations, has raised concerns about the interaction of fracturing fluids with the water supply, and the possibility of seismic events.

#### **Joint Controls/Alberta Implementation Plan for Oil Sands Monitoring**

Canada and Alberta recently adopted the Joint Controls/Alberta Implementation Plan for Oil Sands Monitoring (Monitoring Plan). The intent of the Monitoring Plan is to provide a scientifically credible, integrated approach to environmental monitoring, including an improved understanding of the cumulative environmental impact of oil sands development. The total costs to the industry of enhanced monitoring under the Monitoring Plan have been estimated at approximately \$50 million per year. The cost to Suncor under the Monitoring Plan are estimated at approximately \$10 million per year.

#### **Industry Collaboration Initiatives**

For areas of environmental concern, the need for energy companies to increase collaboration with each other, and with their respective stakeholders, is a particularly critical issue for the oil sands industry.

As part of the Oil Sands Leadership Initiative (OSLI), Suncor worked closely with other companies in an effort to make tangible improvements to environmental, social and economic performance in the oil sands industry. These companies came together to pool financial resources and expertise. OSLI focused on land stewardship, water use, technology innovation and sustainable communities. OSLI has been superseded by the Canadian Oil Sands Innovation Alliance (COSIA). COSIA has 13 oil sands member companies and is committed to collaborative action to accelerate improvements in environmental performance, including tailings, water, land and GHG emissions. COSIA will build on the work of OSLI and other collaborative networks to share knowledge and expertise about new technologies and innovation related to environmental performance.

In addition, Suncor and six other oil sands mining companies announced the creation of the Oil Sands Tailings Consortium in December 2010, and agreed to work together in a unified effort to advance tailings management. This initiative is now part of the COSIA. Each company has pledged to share its existing tailings research and technology, and to remove barriers to collaborating on future tailings research and development. In turn, the companies are committing to future research investments to further accelerate tailings technology advances.

## RISK FACTORS

Suncor is committed to a proactive program of enterprise risk management intended to enable decision-making through consistent identification of risks inherent to its assets, activities and operations. Some of these risks are common to operations in the oil and gas industry as a whole, while some are unique to Suncor. The company's enterprise risk committee (ERC), comprised of senior representatives from business and functional groups across Suncor, oversees entity-wide processes to identify, assess and report on the company's principal risks. A principal risk is an exposure that has the potential to materially impact the ability of one of our businesses or functions to meet or support a Suncor objective. The realization of any of the following risks, including Suncor's principle risk factors could have a material adverse effect on our business, financial condition, results of operations and cash flow:

### **Volatility of Commodity Prices**

Our financial performance is closely linked to prices for crude oil in our upstream business and prices for refined petroleum products in our downstream business, and, to a lesser extent, to natural gas prices in our upstream business, where natural gas is both an input and output of production processes. The prices for all of these commodities can be influenced by global and regional supply and demand factors, which are factors that are beyond our control and can result in a high degree of price volatility.

Crude oil prices are also affected by, among other things, global economic health and global economic growth (particularly in emerging markets), pipeline constraints, regional and international supply and demand imbalances, political developments, compliance or non-compliance with quotas imposed on OPEC members, access to markets for crude oil, and weather. These factors impact the various types of crude oil and refined products differently and can impact differentials between light and heavy grades of crude oil (including blended bitumen), and between conventional and synthetic crude oil.

Refined petroleum products prices and refining margins are also affected by, among other things, crude oil prices, the availability of crude oil and other feedstock, levels of refined product inventories, regional refinery availability, marketplace competitiveness, and other local market factors.

Natural gas prices in North America are affected primarily by supply and demand, and by prices for alternative energy sources.

Commodity prices and refining margins have fluctuated widely in recent years. Given the recent global economic uncertainty, we expect continued volatility and uncertainty in commodity prices in the near term. A prolonged period of low prices could affect the value of our upstream and downstream assets and the level of spending on growth

projects, and could result in the curtailment of production from some properties and/or the impairment of that property's carrying value. Accordingly, low commodity prices, particularly for crude oil, could have a material adverse effect on Suncor's business, financial condition, results of operations and cash flow, and may also lead to impairments or writeoffs of the values of Suncor's assets or projects in development.

### **Operational Outages and Major Environmental or Safety Incidents**

Each of Suncor's primary operating businesses – Oil Sands, Exploration and Production, and Refining and Marketing – demand significant levels of investment in the design, operation and maintenance of facilities, and, therefore, carry the additional economic risk associated with operating reliably or enduring a protracted operational outage. These businesses also carry the risks associated with environmental and safety performance, which is closely scrutinized by governments, the public and the media, and could result in a suspension of or inability to obtain regulatory approvals and permits, or, in the case of a major environmental or safety incident, civil suits or charges against the company.

Generally, Suncor's operations are subject to operational hazards and risks such as fires, explosions, blow-outs, power outages, severe winter climate conditions and the migration of harmful substances such as oil spills, gaseous leaks or a release of tailings into water systems, any of which can interrupt operations or cause personal injury or death, or damage to property, equipment, the environment, and information technology systems and related data and control systems.

The reliable operation of production and processing facilities at planned levels and Suncor's ability to produce higher value products can also be impacted by failure to follow operating procedures or operate within established operating parameters, equipment failure through inadequate maintenance, unanticipated erosion or corrosion of facilities, manufacturing and engineering flaws, and labour shortage or interruption. The company is also subject to operational risks such as sabotage, terrorism, trespass, theft and malicious software or network attacks.

The efficient operation of Suncor's business is dependent on computer hardware and software systems. Information systems are vulnerable to security breaches by computer hackers and cyberterrorists. We rely on industry-accepted security measures and technology to securely maintain confidential and proprietary information stored on our information systems. However, these measures and technology may not adequately prevent security breaches. In addition, the unavailability of the information systems or the failure of these systems to perform as anticipated for

any reason could disrupt our business and could result in decreased performance and increased costs, causing our business and results of operations to suffer. Any significant interruption or failure of our information systems or any significant breach of security could adversely affect our business, financial condition, results of operations and cash flow.

For Suncor's Oil Sands operations, mining oil sands ore, extracting bitumen from mined ore, producing bitumen through in situ methods, and upgrading bitumen into SCO and other products involve particular risks and uncertainties. Oil Sands operations are susceptible to loss of production, slowdowns, shutdowns or restrictions on our ability to produce higher value products, due to the interdependence of its component systems.

For Suncor's upstream businesses, there are risks and uncertainties associated with drilling for oil and natural gas, the operation and development of such properties and wells (including encountering unexpected formations, pressures, ore grade qualities, or the presence of H<sub>2</sub>S), premature declines of reservoirs, sour gas releases, uncontrollable flows of crude oil, natural gas or well fluids, other accidents, and pollution and other environmental risks.

Suncor's Exploration and Production operations include drilling offshore of Newfoundland and Labrador and in the North Sea offshore of the U.K. and Norway, which are areas subject to hurricanes and other extreme weather conditions. Drilling rigs in these regions may be exposed to damage or total loss by these storms, some of which may not be covered by insurance. The consequence of catastrophic events, such as blow-outs, occurring in offshore operations can be more difficult and time-consuming to remedy. The occurrence of these events could result in the suspension of drilling operations, damage to or destruction of the equipment involved and injury or death of rig personnel. Successful remediation of these events may be adversely affected by the water depths, pressures and cold temperatures encountered in the ocean, shortages of equipment and specialists required to work in these conditions, or the absence of appropriate technology to resolve the event. Damage to the environment, particularly through oil spillage or extensive, uncontrolled fires, or death, could result from these offshore operations. Suncor's offshore operations could also be affected by the actions of Suncor's contractors and agents that could result in similar catastrophic events at their facilities, or could be indirectly affected by catastrophic events occurring at other third-party offshore operations. In either case, this could give rise to liability, damage to the company's equipment, harm to individuals, force a shutdown of our facilities or operations, or result in a shortage of appropriate equipment or specialists required to perform our planned operations.

In particular, East Coast Canada operations can be impacted by winter storms, pack ice, icebergs and fog. During the winter storm season (October to March), the company may have to reduce production rates at its offshore facilities as a result of limited storage capacity and the inability to offload to shuttle tankers due to wave height restrictions. During the spring, pack ice and icebergs drifting in the area of our offshore facilities have resulted in precautionary shut in of FPSO production and drilling delays. In late spring and early summer, fog also impacts our ability to transfer personnel to the offshore facilities by helicopter.

Suncor's Refining and Marketing operations are subject to all of the risks normally inherent in the operation of refineries, terminals, pipelines and other distribution facilities and service stations, including loss of product, slowdowns due to equipment failures, unavailability of feedstock, price and quality of feedstock or other incidents.

Losses resulting from the occurrence of any of these risks identified above could have a material adverse effect on Suncor's business, financial condition, results of operations and cash flow. Although the company maintains a risk management program, which includes an insurance component, such insurance may not provide adequate coverage in all circumstances, nor are all such risks insurable. It is possible that our insurance coverage will not be sufficient to address the costs arising out of the allocation of liabilities and risk of loss arising from offshore operations.

### **Project Execution**

There are certain risks associated with the execution of our major projects and the commissioning and integration of new facilities within our existing asset base, the occurrence of which could have a material adverse effect on Suncor's business, financial condition, results of operations and cash flow.

Project execution risk consists of three related primary risks:

- Engineering – a failure in the specification, design or technology selection;
- Construction – a failure to build the project in the approved time and at the agreed cost; and
- Commissioning and startup – a failure of the facility to meet agreed performance targets, including operating costs, efficiency, yield and maintenance costs.

Management believes the execution of major projects presents issues that require prudent risk management. Suncor may provide cost estimates for major projects at the conceptual stage, prior to commencement or completion of the final scope design and detailed engineering necessary to reduce the margin of error of such cost estimates. Accordingly, actual costs can vary from

## RISK FACTORS

estimates, and these differences can be material. Project execution can also be impacted by:

- Failure to comply with Suncor's project implementation model;
- The availability, scheduling and cost of materials, equipment and qualified personnel;
- The complexities associated with integrating and managing contractor staff and suppliers in a confined construction area;
- Our ability to obtain the necessary environmental and other regulatory approvals;
- The impact of general economic, business and market conditions;
- The impact of weather conditions;
- Our ability to finance growth if commodity prices were to decline and stay at low levels for an extended period;
- Risks relating to restarting projects placed in safe mode, including increased capital costs;
- The effect of changing government regulation and public expectations in relation to the impact of oil sands development on the environment; and
- Risk associated with offshore fabrication and logistics.

In addition, there are certain risks associated with the execution of our exploration, production and refining projects. These risks include, but are not limited to:

- Our ability to obtain the necessary environmental and regulatory approvals;
- Risks relating to scheduling, resources and costs, including the availability and cost of materials, equipment and qualified personnel;
- The impact of general economic, business and market conditions;
- The impact of weather conditions;
- The accuracy of project cost estimates;
- Our ability to finance growth;
- Our ability to source or complete strategic transactions;
- The effect of changing government regulation and public expectations in relation to the impact of oil sands development on the environment; and
- The commissioning and integration of new facilities within our existing asset base could cause delays in achieving guidance, targets and objectives.

The failure to sanction or build a project could result in additional costs, including abandonment and reclamation costs, to shut down the project, and such costs could be material to Suncor.

### Cost Management

Production from oil sands through mining, upgrading and in situ recovery is, relative to most major conventional hydrocarbon reserves, a higher cost resource to develop and produce. Suncor is exposed to the risk of escalating operating costs in both its oil sands business and other businesses, which could reduce profitability and cash flow, and materially adversely affect Suncor's business, financial condition and results of operations, and may reduce cash flow available for growth or dividends and major project capital costs. This may constrain Suncor's ability to execute high-quality projects that deliver lower operating costs. Factors contributing to these risks include, but are not limited to, the skills and resource shortage, the long-term success of existing and new in situ technologies, and the geology and reserves characterization of in situ reserves that can lead to higher SORs and lower production.

### Government Policy

Suncor operates under federal, provincial, state and municipal legislation in numerous countries. The company is also subject to regulation and intervention by governments in oil and gas industry matters, such as land tenure, royalties, taxes (including income taxes), government fees, production rates, environmental protection controls, safety performance, the reduction of GHG and other emissions, the export of crude oil, natural gas and other products, the company's interactions with foreign governments, the awarding or acquisition of exploration and production rights, oil sands leases or other interests, the imposition of specific drilling obligations, control over the development and abandonment of fields and mine sites (including restrictions on production) and possibly expropriation or cancellation of contract rights.

Changes in government policy or regulation, or interpretation thereof, have a direct impact on Suncor's business, financial condition, results of operations and cash flow, as evidenced by such initiatives as the Alberta government's royalty review program in 2007, and, more recently, by trade sanctions in Libya (which have since been lifted) and Syria imposed by Canadian and other international governments, and increased production taxes in the U.K. Changes in government policy or regulation can also have an indirect impact on Suncor, including opposition to new North American pipeline systems, such as the Keystone XL or the Northern Gateway proposals, or, incrementally over time, through increasingly stringent environmental regulations or unfavourable income tax and royalty regimes. The result of such changes can also lead to additional compliance costs and staffing and resource levels, and also increase exposure to other principal risks of Suncor, including environmental or safety non-compliance and permit approvals.

### **Environmental Regulation**

Changes in environmental regulation could have a material adverse effect on our business, financial condition, results of operations and cash flow by impacting the demand, formulation or quality of our products, or by requiring increased capital expenditures or distribution costs, which may or may not be recoverable in the marketplace. The complexity and breadth of changes in environmental regulation make it extremely difficult to predict the potential impact to Suncor. Suncor positions itself to be ahead of proposed changes or engages in the discussion on proposed changes to ensure Suncor's interests are recognized.

The company anticipates capital expenditures and operating expenses could increase in the future as a result of the implementation of new and increasingly stringent environmental regulations. Failure to comply with environmental regulation may result in the imposition of significant fines and penalties, liability for cleanup costs and damages, and the loss of important licences and permits, which may, in turn, have a material adverse effect on our business, financial condition, results of operations and cash flow. Through industry associations, Suncor participates, both directly and indirectly, in the consultation process for the design of proposed regulations and other efforts to harmonize regulations across jurisdictions within North America.

Some of the issues that are or may in the future be subject to environmental regulation include:

- The possible cumulative regional impacts of oil sands development;
- The manufacture, import, storage, treatment and disposal of hazardous or industrial waste and substances;
- The need to reduce or stabilize various emissions to air;
- Withdrawals, use of, and discharges to water;
- The use of hydraulic fracturing to assist in the recovery and production of oil and natural gas;
- Issues relating to land reclamation, restoration and wildlife habitat protection;
- Issues related to offset requirements for various land disturbances;
- Reformulated gasoline to support lower vehicle emissions;
- U.S. state or federal calculation and regulation of fuel life-cycle carbon content; and
- Regulation or policy by foreign governments or other organizations to limit purchases of oil produced from unconventional sources, such as the oil sands.

### **Climate Change Regulation**

Future laws and regulations may impose significant liabilities on a failure to comply with their requirements; however, Suncor expects the cost of meeting new environmental and climate change regulations will not be so high as to cause material disadvantage to the company or material damage to its competitive positioning. While it currently appears that GHG regulations and targets will continue to become more stringent, and while Suncor will continue efforts to reduce the intensity of its GHG emissions, the absolute GHG emissions of our company will continue to rise as we pursue a prudent and planned growth strategy.

As part of its ongoing business planning, Suncor assesses potential costs associated with CO<sub>2</sub> emissions in its evaluation of future projects, based on the company's current understanding of pending and possible GHG regulations. Both the U.S. and Canada have indicated that climate change policies that may be implemented will attempt to balance economic, environmental and energy security concerns. In the future, the company expects that regulation will evolve with a moderate carbon price signal, and that the price regime will progress cautiously. Suncor will continue to review the impact of future carbon constrained scenarios on its strategy, using a price range of \$15 to \$60/tonne of CO<sub>2e</sub> as a base case, applied against a range of regulatory policy options and price sensitivities.

The Canadian federal government has indicated a preference for a sector-specific approach to climate change regulation; however, it is unclear what form any regulation will take for the oil and gas sector, and what type of compliance mechanisms will be available to large emitters. At this time, the company does not believe it is possible to predict the nature of any requirements or the impact on Suncor's business, financial condition, results of operations and cash flow. The impact of developing regulations cannot be quantified at this time in the absence of detail on how systems will operate.

Although Suncor does not actively market into California, the implications of other states or countries adopting similar LCFS legislation could pose a significant barrier to Suncor's exports of oil sands crude if the importing jurisdictions do not acknowledge efforts undertaken by the oil sands industry to meet the emissions intensity reductions legislated by the Government of Alberta.

### **Land Reclamation**

There are risks associated specifically with the company's ability to reclaim tailings ponds containing mature fine tailings, with TRO™ or other methods and technologies. Suncor expects that TRO™ will help the company reclaim existing tailings ponds by reducing the volumes of fluid fine tailings. The success of TRO™ or any other methods of technology and the time to reclaim tailings ponds could

increase or decrease Suncor's decommissioning and restoration cost estimates. The company's failure or inability to adequately implement its reclamation plans could have a material adverse effect on Suncor's business, financial condition, results of operations and cash flow.

#### **Alberta's Land-Use Framework**

Alberta's LUF has been implemented under the *Alberta Land Stewardship Act* (ALSA), which sets out the Government of Alberta's approach to managing Alberta's land and natural resources to achieve long-term economic, environmental and social goals. ALSA contemplates the amendment or extinguishment of previously issued consents such as regulatory permits, licences, approvals and authorizations in order to achieve or maintain an objective or policy resulting from the implementation of a regional plan.

On August 22, 2012, the Government of Alberta approved the LARP, the first regional plan under the LUF. The LARP includes management frameworks for air, land, and water quality that incorporate cumulative limits and triggers. As well, the LARP identifies areas related to conservation, tourism and recreation.

A management framework for water quantity (water withdrawals from the Athabasca River) has recently been announced. A management framework for biodiversity is under development.

The implementation of, and compliance with, the terms of the LARP may adversely impact our current properties and projects in northern Alberta due to, among other things, environmental limits and thresholds. Due to the cumulative nature of the plan, the impact of the LARP on Suncor's operations may be outside of the control of the company, as Suncor's operations could be impacted as a result of restrictions imposed due to the cumulative impact of development, by the operators in the area and not solely in relation to Suncor's direct impact.

#### **Alberta Environment Water Licences**

We currently rely on fresh water, which is obtained under licences from Alberta Environment to provide domestic and utility water at our Oil Sands operations. Water licences, like all regulatory approvals, contain conditions to be met in order to maintain compliance with the licence. Although there can be no assurance that the licences to withdraw water will not be rescinded or that additional conditions will not be added to these licences, without evidence of an environmental impact associated with the licence and providing compliance is maintained, this is not likely to occur. There can be no assurance that the company will not have to pay a fee for the use of water in the future or that any such fees will be reasonable, although there is currently no evidence that governments are contemplating such a fee at this time. In addition, the expansion of the

company's projects may rely on securing licences for additional water withdrawal, and there can be no assurance that these licences will be granted or that they will be granted on terms favourable to Suncor.

#### **Income Taxes**

In January 2013, the company received a proposal letter from the Canada Revenue Agency (CRA) relating to the income tax treatment of realized losses in 2007 on the settlement of certain derivative contracts. Following Suncor's response to a number of information requests in 2013, the CRA informed the company that it has not changed its original proposed position.

In the event that the CRA issues a formal Notice of Reassessment (NOR), Suncor plans to file a Notice of Objection to dispute this matter. However, notwithstanding the filing of an objection, the company would be required to make a minimum payment of 50% of the amount payable under the NOR, estimated to be \$600 million, which would remain on account until the dispute is resolved.

Suncor strongly disagrees with the CRA's position and firmly believes it will be able to successfully defend its original filing position so that, ultimately, no increased income tax payable will result from the CRA's actions. If the company is unsuccessful in defending its tax filing position, it could be subject to an earnings impact of up to \$1.2 billion.

#### **Skills and Resource Shortage**

The successful operation of Suncor's businesses and our ability to expand operations will depend upon the availability of, and competition for, skilled labour and materials supply. There is a risk that we may have difficulty sourcing the required labour for current and future operations. The risk could manifest itself primarily through an inability to recruit new staff without a dilution of talent, to train, develop and retain high-quality and experienced staff without unacceptably high attrition, and to satisfy an employee's work/life balance and desire for competitive compensation. The labour market in Alberta is particularly tight due to the growth of the oil sands industry. The increasing age of our existing workforce adds further pressure to this situation. Materials may also be in short supply due to smaller labour forces in many manufacturing operations. Our ability to operate safely and effectively and complete all our projects on time and on budget has the potential to be significantly impacted by these risks.

#### **Change Capacity**

In order to achieve Suncor's business objectives, the company must operate efficiently, reliably and safely, and, at the same time, deliver growth and sustaining projects safely, on budget and on schedule. The ability to balance

these two sets of objectives is critically important to Suncor to deliver value to shareholders and stakeholders. These objectives also demand a large number of improvement initiatives that compete for resources, and may negatively impact the company should there be inadequate consideration of the cumulative impacts of prior and parallel initiatives on people, processes and systems. There is a risk that these objectives may exceed Suncor's capacity to adopt and implement change.

### Market Access

Suncor anticipates higher production of bitumen in future years, due mainly to production growth from debottlenecking at both MacKay River and Firebag operations as well as MacKay River Stage 2. Due to its high viscosity, bitumen is blended with a light diluent or SCO and sold as a heavy crude oil. The markets for heavy crude are more limited than those for light crude, making them more susceptible to supply and demand changes and imbalances (whether as a result of pipeline constraints or otherwise). Heavy crude oil generally receives lower market prices than light crude, due principally to the lower quality and value of the refined product yield, and the higher cost to transport the more viscous product on pipelines, and this price differential can be amplified due to supply and demand imbalances, as has been experienced in recent years with pipeline constraints and the inability to efficiently bring products to market. The price differential between light crude and WCS is particularly important for Suncor. The market price for WCS is influenced by regional supply and demand factors, including the availability and price of diluent, and by the availability and cost of accessing primary markets through pipeline systems.

Constrained market access for oil sands production due to insufficient pipeline takeaway capacity, growing inland production and refinery outages create risk of widening differentials or shut-in of production that could have a material adverse effect on our business, financial condition, results of operations and cash flow. In addition, oil and natural gas producers in North America, and particularly in Canada, currently receive discounted prices for their production relative to certain international prices, due to constraints on the ability to transport and sell such products to international markets. A failure to resolve such constraints may result in continued discounted or reduced commodity prices realized by oil and natural gas producers such as Suncor.

### Third-Party Service Providers

Suncor is reliant on the operational integrity of a large number of third-party service providers, including input and output commodity transport (pipelines, rail, trucking, marine) and utilities associated with various Suncor facilities. Recent incidents around commodity transportation

in North America have highlighted the nature of this risk generally; a disruption in service by one of these third parties can also have a dramatic impact on Suncor's operations. Pipeline constraints that affect takeaway capacity or supply of inputs could impact our ability to produce at capacity levels. Disruptions in pipeline service could adversely affect commodity prices, Suncor's price realizations, refining operations and sales volumes, or limit our ability to deliver production. These interruptions may be caused by the inability of the pipeline to operate or by the oversupply of feedstock into the system that exceeds pipeline capacity. There can be no certainty that short-term operational constraints on pipeline systems arising from pipeline interruption and/or increased supply of crude oil will not occur. In addition, planned or unplanned shutdowns or closures of our refinery customers may limit our availability to deliver feedstock. All of these events could have negative implications on Suncor's business, financial condition, results of operations and cash flow.

### Foreign Operations

The company has operations in a number of countries with different political, economic and social systems. As a result, the company's operations and related assets are subject to a number of risks and other uncertainties arising from foreign government sovereignty over the company's international operations, which may include, among other things:

- Currency restrictions and exchange rate fluctuations;
- Loss of revenue, property and equipment as a result of expropriation, nationalization, war, insurrection and geopolitical and other political risks;
- Increases in taxes and government royalties;
- Compliance with existing and emerging anti-corruption laws, including the *Foreign Corrupt Practices Act (United States)*, the *Corruption of Foreign Officials Act (Canada)* and the *United Kingdom Bribery Act*;
- Renegotiation of contracts with government entities and quasi-government agencies, including risks around ongoing negotiations in Libya with the NOC related to the periods in which Suncor was in force majeure under its EPSAs;
- Changes in laws and policies governing operations of foreign-based companies; and
- Economic and legal sanctions (such as restrictions against countries experiencing political violence, or countries that other governments may deem to sponsor terrorism).

If a dispute arises in the company's foreign operations, the company may be subject to the exclusive jurisdiction of foreign courts or may not be able to subject foreign persons to the jurisdiction of a court in Canada or the

U.S. In addition, as a result of activities in these areas and a continuing evolution of an international framework for corporate responsibility and accountability for international crimes, the company could also be exposed to potential claims for alleged breaches of international law.

In response to international sanctions and escalating political unrest in Syria, Suncor declared force majeure in December 2011, withdrew its expatriate staff and stopped recording production from Syria. Since this time, the company's prospects for resuming operations in Syria have not improved. As a result, Suncor recorded impairment charges against its assets in Syria in 2012 and then completely impaired the assets in 2013. In 2013, the company also recorded an after-tax impairment charge of \$101 million against its assets in Libya due to an extended loss of production, and uncertainty around return to operations arising from continued political unrest which began in mid-2013. There is no assurance as to if or when Suncor's operations in either Syria or Libya will resume or return to previous levels. Further, Suncor has not received signed agreements for the exploration period extension to April 12, 2015 under its Libyan EPSAs. Until these signed agreements are received, there remains a risk that Suncor's exploration period is not extended.

The impact that future potential terrorist attacks, regional hostilities or political violence may have on the oil and gas industry, and on our operations in particular, is not known at this time. This uncertainty may affect operations in unpredictable ways, including disruptions of fuel supplies and markets, particularly crude oil, and the possibility that infrastructure facilities, including pipelines, production facilities, processing plants and refineries, could be direct targets of, or collateral damage of, an act of terror, political violence or war. Suncor may be required to incur significant costs in the future to safeguard our assets against terrorist activities or to remediate potential damage to our facilities. There can be no assurance that Suncor will be successful in protecting itself against these risks and the related financial consequences.

#### **Co-owner Management**

Suncor has entered into joint arrangements and other contractual arrangements with third parties with respect to certain of its projects where other entities operate assets in which Suncor has ownership or other interests. Suncor's dependence on its co-owners and its constrained ability to influence operations and associated costs could materially adversely affect Suncor's business, financial condition, results of operations and cash flow. The success and timing of Suncor's activities on assets and projects operated by others, or developed jointly with others, depend upon a number of factors that are outside of Suncor's control, including the timing and amount of capital expenditures, the timing and amount of operational and maintenance

expenditures, the operator's expertise, financial resources and risk management practices, the approval of other participants, and the selection of technology.

These co-owners may have objectives and interests that do not coincide with and may conflict with Suncor's interests. Major capital decisions affecting joint arrangements may require agreement among the co-owners, while certain operational decisions may be made solely at the discretion of the operator of the applicable assets. While the partners generally seek consensus with respect to major decisions concerning the direction and operation of the assets and the development of projects, no assurance can be provided that the future demands or expectations of the parties relating to such assets and projects will be met satisfactorily or in a timely manner. Failure to satisfactorily meet demands or expectations by all of the parties may affect our participation in the operation of such assets or in the development of such projects, our ability to obtain or maintain necessary licences or approvals, or the timing for undertaking various activities. In addition, disputes may arise pertaining to the timing and/or capital commitments with respect to projects that are being jointly developed, which could materially adversely affect the development of such projects and Suncor's business and operations.

#### **EH&S Regulatory Non-Compliance**

The company is required to comply with a large number of EH&S regulations under a variety of Canadian, U.S., U.K. and other foreign, federal, provincial, territorial, state and municipal laws and regulations, some of which are described in the Industry Conditions – Environmental Regulation section of this AIF. Failure to comply with these regulations may result in the imposition of fines and penalties, production constraints, reputational damage, operating and growth permit applications, censure, liability for cleanup costs and damages, and the loss of important licences and permits, which could also have a material adverse effect on Suncor's business, financial condition, results of operations and cash flow. Compliance can be affected by the loss of skilled staff, inadequate internal processes and compliance auditing.

#### **Permit Approvals**

Before proceeding with most major projects, including significant changes to existing operations, Suncor must obtain various federal, provincial or state permits and regulatory approvals. Suncor must also obtain licences to operate certain assets. These processes can involve, among other things, stakeholder consultation, environmental impact assessments and public hearings, and may be subject to conditions, including security deposit obligations and other commitments. Suncor can also be indirectly impacted by a third party's inability to obtain regulatory approval for a shared infrastructure project.

Failure to obtain or maintain regulatory approvals, or failure to obtain them on a timely basis or on satisfactory terms, could result in delays, abandonment or restructuring of projects and increased costs, all of which could have a material adverse effect on Suncor's business, financial condition, results of operations and cash flow.

### **Energy Trading and Risk Management Activities and the Exposure to Counterparties**

The nature of Suncor's energy trading and risk management activities, which may make use of derivative financial instruments to hedge its commodity price and other market risks, creates exposure to significant financial risks, which include, but are not limited to, the following:

- Movements in prices or values could result in a financial loss to the company;
- A lack of counterparties, due to market conditions or other circumstances, could leave us unable to liquidate or offset a position, or unable to do so at or near the previous market price;
- We may not receive funds or instruments from our counterparty at the expected time;
- The counterparty could fail to perform an obligation owed to us;
- Loss as a result of human error or deficiency in our systems or controls; and
- Loss as a result of contracts being unenforceable or transactions being inadequately documented.

In the normal course of business, the company enters into contractual relationships with counterparties in the energy industry and other industries, including counterparties for interest rate, foreign exchange and commodity hedging arrangements. If such counterparties do not fulfil their contractual obligations, the company may suffer losses, may have to proceed on a sole risk basis, may have to forego opportunities or may have to relinquish leases or blocks.

Suncor has adopted a Trading Risk Management Policy (the Trading Policy), which requires all trading activities to occur in the group responsible for trading, so that trading risks can be properly monitored, controlled and reported. The Board has set the trading commodities, trading term limits, value-at-risk limits and stop-loss limits under the Trading Policy. Any changes to the foregoing require Board approval. The Board reviews and monitors Suncor's compliance with the Trading Policy through the Audit Committee, which receives a quarterly report that summarizes Suncor's trading activities and provides an assessment of Suncor's financial exposure to risk from these activities.

The terms of derivative financial instruments may also limit the benefit of favourable changes in commodity prices,

interest rates and currency values and may result in financial or opportunity loss due to delivery commitments, royalty rates and counterparty risks associated with the contracts.

While the company limits its exposure to any one counterparty to a level that management deems to be reasonable, losses due to counterparties failing to fulfil their contractual obligations may have a material adverse effect on Suncor's business, financial condition, results of operations and cash flow.

### **Royalties**

Royalties can be impacted by changes in crude oil and natural gas pricing, production volumes, foreign exchange rates, and capital and operating costs by changes to existing legislation or PSCs, and by results of regulatory audits of prior year filings and other unexpected events. The final determination of these events may have a material impact on royalties payable to provincial and local governments and on the company's royalties expense.

### **Technology Risk**

There are risks associated with growth and other capital projects that rely largely or partly on new technologies and the incorporation of such technologies into new or existing operations, particularly as the results of the application of new technologies may differ from simulated or test environments. The success of projects incorporating new technologies cannot be assured. Advantages accrue to companies that can develop and adopt emerging technologies in advance of competitors. The inability to develop and monitor new technologies may impact the company's ability to develop its new or existing operations in a competitive or profitable manner.

Current SAGD technologies for in situ recovery of heavy oil and bitumen are energy intensive, requiring significant consumption of natural gas and other fuels in the production of the steam used in the recovery process. The amount of steam required in the production process can also vary and impact costs. The performance of the reservoir can also impact the timing and levels of production using this technology.

### **Exchange Rate Fluctuations**

Our Consolidated Financial Statements are presented in Canadian dollars. The majority of Suncor's revenues from the sale of oil and natural gas are based on prices that are determined by, or referenced to, U.S. dollar benchmark prices, while the majority of Suncor's expenditures are realized in Canadian dollars. The company also holds substantial amounts of U.S. dollar debt. Suncor's results, therefore, can be affected significantly by the exchange rates between the Canadian dollar and the U.S. dollar. The company also undertakes operations administered through

international subsidiaries and, so, to a lesser extent, Suncor's results can be affected by the exchange rates between the Canadian dollar and the euro, and the Canadian dollar and the British pound. These exchange rates may vary substantially and may give rise to favourable or unfavourable foreign currency exposure, which could have a material adverse effect on Suncor's business, financial condition, results of operations and cash flow.

#### **Labour Relations**

Hourly employees at our Oil Sands facilities near Fort McMurray, Alberta, all of our refineries, certain of our lubricants operations, certain of our terminalling and distribution operations, and our Terra Nova FPSO are represented by labour unions or employee associations. Approximately 30% of our employees are members of Unifor. Any work interruptions involving our employees, contract trades utilized in our projects or operations, or any jointly owned facilities operated by another entity could have a material adverse effect on Suncor's business, financial condition, results of operations and cash flow.

#### **Reliance on Key Personnel**

Our success, in a large measure, is dependent on certain key personnel. The loss of services from such key personnel could have a material adverse effect on the company. The contributions of the existing management team to the immediate and near-term operations of the company are likely to continue to be of central importance for the foreseeable future. In addition, the competition for qualified personnel in the oil and natural gas industry is intense, and there can be no assurance that we will be able to continue to attract and retain all personnel necessary for the development and operation of our business.

#### **Uncertainty of Reserves and Resources Estimates**

The reserves and contingent resources estimates included in this AIF represent estimates only. There are numerous uncertainties inherent in estimating quantities and quality of these proved and probable reserves and contingent resources, including many factors beyond our control. In general, estimates of economically recoverable reserves and the future net cash flow from these assets are based upon a number of variable factors and assumptions, such as historical production from the properties, the assumed effect of regulation by governmental agencies, pricing assumptions, the timing and amount of capital expenditures, future royalties, future operating costs, and yield rates for upgraded production of synthetic crude oil from bitumen – all of which may vary considerably from actual results. The accuracy of any reserves and resources estimates is a matter of interpretation and judgment and is

a function of the quality and quantity of available data, which may have been gathered over time.

Reserves and resources estimates are based upon a geological assessment, including drilling and laboratory tests. Mining reserves and resources estimates also consider production capacity and upgrading yields, mine plans, operating life and regulatory constraints. In Situ reserves and resources estimates are also based upon the testing of core samples and seismic operations and demonstrated commercial success of in situ processes. Our actual production, revenues, royalties, taxes, and development and operating expenditures with respect to our reserves will vary from such estimates, and such variances could be material. Production performance subsequent to the date of the estimate may justify revision, either upward or downward, if material.

The reserves evaluations are based in part on the assumed success of activities we intend to undertake in future years. The reserves and estimated cash flow to be derived from the reserves contained in the reserves evaluations will be reduced to the extent that such activities do not achieve the level of success assumed in the reserves evaluations. The reserves evaluations are effective as of a specific effective date and have not been updated, and thus do not reflect changes in our reserves since that date.

For these reasons, estimates of the economically recoverable reserves and resources attributable to any particular group of properties, and classification of such reserves and resources based on the risk of recovery, prepared by different engineers or by the same engineers at different times, may vary.

#### **Interest Rate Risk**

We are exposed to fluctuations in short-term Canadian and U.S. interest rates as Suncor maintains a portion of its debt capacity in revolving and floating rate bank facilities and commercial paper, and invests surplus cash in short-term debt instruments. We are also exposed to interest rate risk when debt instruments are maturing and require refinancing, or when new debt capital needs to be raised.

#### **Capital Markets**

Suncor expects that future capital expenditures will be financed out of cash generated from operations and borrowings. This ability is dependent on, among other factors, commodity prices, the overall state of the capital markets and investor appetite for investments in the energy industry generally and our securities in particular.

The market events and conditions witnessed over the past several years, including disruptions in international credit markets and other financial systems and the deterioration of global economic conditions, have caused significant volatility in commodity prices and increases in the rates at

which we are able to borrow funds for our capital programs. The continued uncertainty in the global economic situation means that the company, along with all other oil and gas entities, may continue to face restricted access to capital and increased borrowing costs. To the extent that external sources of capital become limited or unavailable or available on unfavourable terms, our ability to make capital investments and maintain existing properties may be constrained, and, as a result, Suncor's business, financial condition, results of operations and cash flow may be materially adversely affected.

We believe that we have sufficient funds available to fund our planned capital expenditures for 2014. If cash flow from operations is lower than expected, if capital expenditures in 2014 exceed current estimates, or if we incur major unanticipated expenses related to the development or maintenance of our existing assets, Suncor may need to re-evaluate its capital program or seek additional capital. Choosing not to obtain the financing necessary for our capital expenditure plans may result in a delay in the planned development of production from our operations and strand significant capital, while increasing costs to keep projects in safe mode. Choosing to seek additional capital might adversely affect our credit ratings. Either of these events could have a material adverse effect on Suncor's business, financial condition, results of operations and cash flow.

#### **Issuance of Debt and Debt Covenants**

From time-to-time, we may finance capital expenditures in whole or in part with debt, which may increase our debt levels above industry standards for oil and gas companies of similar size. Depending on future development plans, we may require additional debt financing that may not be available or, if available, may not be available on favourable terms, including higher interest rates and fees. Neither the Articles of Suncor (the Articles) nor its bylaws limit the amount of indebtedness that we may incur; however, we are subject to covenants in our existing bank facilities and seek to avoid an unfavourable cost of debt. The level of our indebtedness, from time-to-time, could impair our ability to obtain additional financing on a timely basis to take advantage of business opportunities that may arise and could negatively affect our credit ratings, which could have a material adverse effect on Suncor's business, financial condition, results of operations and cash flow.

We are required to comply with financial and operating covenants under these credit facilities and debt securities. We routinely review the covenants based on actual and forecast results and have the ability to make changes to our development plans, capital structure and/or dividend policy to comply with covenants under the credit facilities. If Suncor does not comply with the covenants under its credit facilities and debt securities, repayment could be

required and/or the company's access to capital could be restricted or only be available on unfavourable terms, all of which could have a material adverse effect on Suncor's business, financial condition, results of operations and cash flow.

Suncor's debt instruments are rated by various credit rating agencies. These ratings affect Suncor's ability to gain access to reasonably priced debt financing. If any of Suncor's credit rating agencies downgrade Suncor's debt instruments, it may restrict Suncor's ability to issue debt and may also increase the cost of borrowing, including under existing credit facilities.

Rating agencies regularly evaluate the company and our subsidiaries. Their ratings of our long-term and short-term debt are based on a number of factors, including our financial strength, as well as factors not entirely within our control, including conditions affecting the oil and gas industry generally, and the wider state of the economy. We cannot be assured that one or more of our credit ratings will not be downgraded. Our borrowing costs and ability to raise funds are directly impacted by our credit ratings. In addition, credit ratings may be important to customers or counterparties when we compete in certain markets and when we seek to engage in certain transactions, including transactions involving over-the-counter derivatives.

A credit-rating downgrade could potentially limit our access to private and public credit markets and increase the costs of borrowing under existing facilities. A reduction in our credit ratings also could have a significant impact on certain trading revenues, particularly in those businesses where counterparty creditworthiness is critical. It could trigger collateralization requirements related to physical and financial derivative liabilities with certain marketing counterparties and facility construction contracts. The occurrence of any of the foregoing could adversely affect our ability to execute portions of our business strategy and could have a material adverse effect on our liquidity and capital position.

#### **Dividends**

Our payment of future dividends on our common shares will be dependent on, among other things, our financial condition, results of operations, cash flow, the need for funds to finance ongoing operations, debt covenants and other business considerations as the company's Board considers relevant. There can be no assurance that we will continue to pay dividends in the future, at current levels, or at all.

#### **Competition**

The global petroleum industry is highly competitive in many aspects, including the exploration for and the development of new sources of supply, the acquisition of crude oil and natural gas interests, and the refining, distribution and

## RISK FACTORS

marketing of refined petroleum products. We compete in virtually every aspect of our business with other energy companies. The petroleum industry also competes with other industries in supplying energy, fuel and related products to consumers. We believe the primary competition for our crude oil production is other major international oil and natural gas producers and integrated companies.

For Suncor's Oil Sands segment, a number of other companies have entered, or have indicated their intention to enter, the oil sands business and begin producing bitumen and SCO, or expand their existing operations. It is difficult to assess the number, level of production and ultimate timing of all potential new projects or when existing production levels may increase. During recent years, a global focus on the oil sands through increasing industry consolidation that has created competitors with financial capacity has significantly increased the supply of bitumen, SCO and heavy crude oil in the marketplace. The impact of this level of activity on regional infrastructure, including pipelines, has placed stress on the availability and cost of all resources required to build and run new and existing oil sands operations.

For Suncor's Refining and Marketing businesses, management expects that fluctuations in demand for refined products, margin volatility and overall marketplace competitiveness will continue. In addition, to the extent that our downstream business unit participates in new product markets, it could be exposed to margin risk and volatility from either cost and/or selling price fluctuations.

### Land Claims

First Nations people have claimed Aboriginal title and rights to portions of Western Canada. In addition, First Nations people have filed claims against industry participants relating in part to land claims, which may affect our business. At the present time, we are unable to assess the effect, if any, that these land claims may have on our business.

## DIVIDENDS

The Board of Directors has established a policy of paying dividends on a quarterly basis. We review our dividend policy from time-to-time with regard to our financial position, financing requirements for growth, cash flow and other factors which our Board of Directors considers relevant. The Board approved an increase in the quarterly dividend to \$0.20 per share from \$0.13 per share in the second quarter of 2013. In February 2014, the Board of Directors approved a per share increase of \$0.03 to Suncor's quarterly dividend to \$0.23 per common share. Dividends are paid subject to applicable law, if, as and when declared by the Board.

Year ended December 31	2013	2012	2011
Cash dividends per common share (\$)	0.73	0.50	0.43

### Control Environment

Based on their evaluation as of December 31, 2013, our CEO and Interim Chief Financial Officer concluded that our disclosure controls and procedures (as defined in Rules 13a-15(e) and 15d-15(e) under the United States *Securities Exchange Act of 1934*, as amended (the Exchange Act)) are effective to ensure that information required to be disclosed by the company in reports that are filed or submitted to Canadian and U.S. securities authorities is recorded, processed, summarized and reported within the time periods specified in Canadian and U.S. securities laws. In addition, as of December 31, 2013, there were no changes in our internal control over financial reporting (as defined in Exchange Act Rules 13a-15(f) and 15d-15(f)) that occurred during the year ended December 31, 2013 that have materially affected, or are reasonably likely to materially affect, the company's internal control over financial reporting. Management will continue to periodically evaluate the company's disclosure controls and procedures and internal controls over financial reporting and will make any modifications from time-to-time as deemed necessary.

As a result of current unrest in Syria, Suncor is not able to monitor the status of all of its assets in this country, including whether certain facilities have suffered damage. Suncor is continually assessing the control environment in Syria to the extent permitted by applicable law and does not consider the changes in that country to have had a material impact on the company's overall internal control over financial reporting.

Based on their inherent limitations, disclosure controls and procedures and internal controls over financial reporting may not prevent or detect misstatements, and even those controls determined to be effective can provide only reasonable assurance with respect to financial statement preparation and presentation.

## DESCRIPTION OF CAPITAL STRUCTURE

The company's authorized share capital is comprised of an unlimited number of common shares, an unlimited number of preferred shares issuable in series designated as senior preferred shares, and an unlimited number of preferred shares issuable in series designated as junior preferred shares.

As at December 31, 2013, there were 1,478,315,069 common shares issued and outstanding. To the knowledge of the Board of Directors and executive officers of Suncor, no person beneficially owns, or exercises control or direction over, securities carrying 10% or more of the voting rights attached to any class of voting securities of the company. The holders of common shares are entitled to attend all meetings of shareholders and vote at any such meeting on the basis of one vote for each common share held. As no senior preferred shares or junior preferred shares are issued and outstanding, common shareholders are entitled to receive any dividend declared by the Board on the common shares and to participate in a distribution of the company's assets among its shareholders for the purpose of winding up its affairs. The holders of the common shares shall be entitled to share equally, share for share, in all distributions of such assets.

### Petro-Canada Public Participation Act

The *Petro-Canada Public Participation Act* requires that the Articles of Suncor include certain restrictions on the ownership and voting of voting shares of the company. The common shares of Suncor are voting shares. No person, together with associates of that person, may subscribe for, have transferred to that person, hold, beneficially own or control otherwise than by way of security only, or vote in the aggregate, voting shares of Suncor to which are attached more than 20% of the votes attached to all outstanding voting shares of Suncor. Additional restrictions include provisions for suspension of voting rights, forfeiture of dividends, prohibitions against share transfer, compulsory sale of shares, and redemption and suspension of other shareholder rights. The Board may at any time require holders of, or subscribers for, voting shares, and certain other persons, to furnish statutory declarations as to ownership of voting shares and certain other matters relevant to the enforcement of the restrictions. Suncor is prohibited from accepting any subscription for, and issuing or registering a transfer of, any voting shares if a

contravention of the individual ownership restrictions results.

Suncor's Articles, as required by the *Petro-Canada Public Participation Act*, also include provisions requiring Suncor to maintain its head office in Calgary, Alberta; prohibiting Suncor from selling, transferring or otherwise disposing of all or substantially all of its assets in one transaction, or several related transactions, to any one person or group of associated persons, or to non-residents, other than by way of security only in connection with the financing of Suncor; and requiring Suncor to ensure (and to adopt, from time-to-time, policies describing the manner in which Suncor will fulfil the requirement to ensure) that any member of the public can, in either official language of Canada (English or French), communicate with and obtain available services from Suncor's head office and any other facilities where Suncor determines there is significant demand for communication with, and services from, that facility in that language.

### Credit Ratings

The following information regarding the company's credit ratings is provided as it relates to the company's cost of funds and liquidity. In particular, the company's ability to access unsecured funding markets and to engage in certain collateralized business activities on a cost-effective basis is primarily dependent upon maintaining competitive credit ratings. A lowering of the company's credit rating may also have potentially adverse consequences for the company's funding capacity for growth projects or access to the capital markets, may affect the company's ability, and the cost, to enter into normal course derivative or hedging transactions and may require the company to post additional collateral under certain contracts.

The following table shows the ratings issued by the rating agencies noted therein as of December 31, 2013. The credit ratings are not recommendations to purchase, hold or sell the debt securities inasmuch as such ratings do not comment as to the market price or suitability for a particular investor. Any rating may not remain in effect for any given period of time or may be revised or withdrawn entirely by a rating agency in the future if, in its judgment, circumstances so warrant.

	Senior Unsecured	Outlook	Cdn Commercial Paper Program	US Commercial Paper Program
Standard & Poor's (S&P)	BBB+	Stable	A-1 (low)	A-2
Dominion Bond Rating Service (DBRS)	A (low)	Stable	R-1 (low)	R-1 (low)
Moody's Investors Service (Moody's)	Baa1	Stable	Not rated	P-2

## DESCRIPTION OF CAPITAL STRUCTURE

S&P credit ratings on long-term debt are on a rating scale that ranges from AAA to D, representing the range of such securities rated from highest to lowest quality. A rating of BBB by S&P is the fourth highest of 10 categories and indicates that the obligor had adequate capacity to meet its financial commitments. However, adverse economic conditions or changing circumstances are more likely to lead to a weakened capacity of the obligor to meet its financial commitment on the obligation. The addition of a plus (+) or minus (-) designation after the rating indicates the relative standing within a particular rating category. S&P credit ratings on commercial paper are on a short-term debt rating scale that ranges from A-1 to D, representing the range of such securities rated from highest to lowest quality. A Canadian rating by S&P of A-1 (low) is the third highest of eight categories and a US rating of A-2 is the second highest of six categories, indicating a slightly higher susceptibility to the adverse effects of changes in circumstances and economic conditions, although the obligor's capacity to meet its financial commitment on the obligation is satisfactory.

DBRS credit ratings on long-term debt are on a rating scale that ranges from AAA to D, representing the range of such securities rated from highest to lowest. A rating of A by DBRS is the third highest of 10 categories and is assigned to debt securities considered to be of good credit quality, with the capacity for the payment of financial obligations being substantial, but of a lesser credit quality than an AA rating. Entities in the A category may be vulnerable to future events, but qualifying negative factors are considered manageable. All rating categories other than AAA and D also contain designations for (high) and (low). The absence of either a (high) or (low) designation indicates the rating is in the middle of the category. The assignment of a (high) or (low) designation within a rating category indicates relative standing within that category.

DBRS's credit ratings on commercial paper are on a short-term debt rating scale that ranges from R-1 (high) to D, representing the range of such securities rated from highest to lowest quality. A rating of R-1 (low) by DBRS is the third highest of 10 categories and is assigned to debt securities considered to be of good credit quality. The capacity for the payment of short-term financial obligations as they become due is substantial, with overall strength not as favourable as higher rating categories. Entities in this category may be vulnerable to future events, but qualifying negative factors are considered manageable. The R-1 and R-2 commercial paper categories are denoted by (high), (middle) and (low) designations.

Moody's credit ratings are on a long-term debt rating scale that ranges from Aaa to C, which represents the range from highest to lowest quality of such securities rated. A rating of Baa by Moody's is the fourth highest of nine categories. Obligations rated Baa are subject to moderate credit risk. They are considered medium grade and, as such, may possess certain speculative characteristics. For certain ratings, Moody's appends numerical modifiers 1, 2 or 3 to each generic rating classification. The modifier 1 indicates that the obligation ranks in the higher end of its generic rating category; the modifier 2 indicates a mid-range ranking; and the modifier 3 indicates a ranking in the lower end of that generic rating category. A rating of P-2 by Moody's for commercial paper is the second highest of four rating categories and indicates a strong ability to repay short-term obligations.

Suncor has paid each of S&P, DBRS and Moody's their customary fees in connection with the provision of the above ratings. Suncor has not made any payments to S&P, DBRS or Moody's in the past two years for services unrelated to the provision of such ratings.

## MARKET FOR SECURITIES

Our common shares are listed on the TSX in Canada and on the NYSE in the U.S. The price ranges and the volumes traded on the TSX for the year ended December 31, 2013, are as follows:

### TSX

	Price Range (Cdn\$)		Trading Volume (000s)
	High	Low	
<b>2013</b>			
January	34.80	33.01	59 296
February	34.55	30.70	69 971
March	31.99	30.22	68 772
April	31.44	27.50	83 966
May	33.30	30.36	112 344
June	32.02	29.85	85 764
July	33.50	30.79	61 754
August	36.76	32.78	58 751
September	37.63	35.71	58 701
October	38.56	35.61	54 509
November	38.27	35.85	54 542
December	37.81	35.21	53 796

For information in respect of options to purchase common shares of Suncor and common shares issued upon the exercise of options, see the Share Capital note to the 2013 audited Consolidated Financial Statements, which is incorporated by reference into this AIF.

## DIRECTORS AND EXECUTIVE OFFICERS

### Directors

The following individuals are directors of Suncor on the date hereof. The term of each director is from the date of the meeting at which he or she is elected or appointed until the next annual meeting of shareholders or until a successor is elected or appointed.

Suncor Directors Name and Jurisdiction of Residence	Period Served and Independence	Biography
Mel E. Benson <sup>(1)(2)</sup> Alberta, Canada	Director since 2000 Independent	Mel Benson is president of Mel E. Benson Management Services Inc., an international consulting firm working in various countries with a focus on First Nations/corporate negotiations. Mr. Benson is also part owner of the private oil and gas company Tenax Energy Inc. and sits on the board of the Fort McKay Group of Companies, a community trust organization, as well as ECM Energy Services, Inc., based in Phoenix, Arizona. Mr. Benson retired from Exxon International and Imperial Oil Canada in 2000 after a long career as an operations manager and senior member of project management. While based in Houston, Texas, Mr. Benson worked on international projects based in Africa and the former Soviet Union. Mr. Benson recently became a member of the community advisory board for the Alberta Land Institute through the University of Alberta. Mr. Benson is a member of Beaver Lake Cree Nation, located in northeast Alberta.
Dominic D'Alessandro <sup>(3)(4)</sup> Ontario, Canada	Director since 2009 Independent	Dominic D'Alessandro was president and chief executive officer of Manulife Financial Corporation from 1994 to 2009 and is currently a director of CGI Group Inc. and Canadian Imperial Bank of Commerce (CIBC) <sup>(5)</sup> . For his many business accomplishments, Mr. D'Alessandro was recognized as Canada's Most Respected CEO in 2004 and CEO of the Year in 2002, and was inducted into the Insurance Hall of Fame in 2008. Mr. D'Alessandro is an Officer of the Order of Canada and has been appointed as a Commendatore of the Order of the Star of Italy. In 2009, he received the Woodrow Wilson Award for Corporate Citizenship and in 2005 was granted the Horatio Alger Award for community leadership. Mr. D'Alessandro is a FCA, and holds a Bachelor of Science from Concordia University in Montreal. He has also been awarded honorary doctorates from York University, the University of Ottawa, Ryerson University and Concordia University.
John T. Ferguson Alberta, Canada	Director since 1995 Independent	John Ferguson is founder and chairman of the board of Princeton Developments Ltd. and Princeton Ventures Ltd. Mr. Ferguson is also a director of Fountain Tire Ltd. and Strategy Summit Ltd. In addition, he is a member of the Order of Canada, an advisory member of the Canadian Institute for Advanced Research, Honorary Colonel – South Alberta Light Horse, a member of the Advisory Council for Promoting Women on Boards, chancellor emeritus and chairman emeritus of the University of Alberta and chair of the advisory board of the Peter Lougheed Leadership Initiative. Mr. Ferguson is a fellow of the Alberta Institute of Chartered Accountants and of the Institute of Corporate Directors.

Suncor Directors Name and Jurisdiction of Residence	Period Served and Independence	Biography
W. Douglas Ford <sup>(1)(4)</sup> Florida, USA	Director since 2004 Independent	W. Douglas Ford was chief executive, refining and marketing for BP p.l.c. (BP) from 1998 to 2002 and was responsible for the refining, marketing and transportation network of BP as well as the aviation fuels business, the marine business and BP shipping. Mr. Ford currently serves as a director of USG Corporation (USG) <sup>(6)</sup> and Air Products and Chemicals, Inc. He is also a member of the board of trustees of the University of Notre Dame.
John D. Gass Florida, USA	Director since 2014 Independent	John Gass is former vice president, Chevron Corporation, a major integrated oil and gas company, and former president, Chevron Gas and Midstream, positions he held from 2003 until his retirement in 2012. He has extensive international experience, having served in a diverse series of operational positions in the oil and gas industry with increasing responsibility throughout his career. Mr. Gass serves as a director of Southwestern Energy Co. and Weatherford International Ltd. He is also on the board of visitors for the Vanderbilt School of Engineering and is a member of the advisory board for the Vanderbilt Eye Institute. Mr. Gass graduated from Vanderbilt University in Nashville, Tennessee, with a bachelor's degree in civil engineering. He also holds a master's degree in civil engineering from Tulane University in New Orleans, Louisiana. A resident of Florida, he is a member of the American Society of Civil Engineers and the Society of Petroleum Engineers.
Paul Haseldonckx <sup>(2)(3)</sup> Essen, Germany	Director since 2002 (Petro-Canada 2002 to July 31, 2009) Independent	Paul Haseldonckx was a member of the management board of Veba Oel AG (Veba), Germany's largest downstream oil and gas company, including Aral AG gas stations in Europe. Mr. Haseldonckx represented Veba's interests at the board of the Cerro Negro joint venture, an in situ oil sands development including an upgrader, during the construction and early production phase. Mr. Haseldonckx holds a Master of Science and has completed Executive Programs at INSEAD, Fontainebleau and IMD, Lausanne.
John R. Huff <sup>(1)(2)</sup> Texas, USA	Director since 1998 Independent	John Huff is chairman of Oceaneering International Inc., an oilfield services company. He also serves as a director of KBR Inc. and as a director of Hi Crush Partners LP.

DIRECTORS AND EXECUTIVE OFFICERS

Suncor Directors Name and Jurisdiction of Residence	Period Served and Independence	Biography
Jacques Lamarre <sup>(2)(3)</sup> Quebec, Canada	Director since 2009 Independent	Jacques Lamarre is past president and chief executive officer of SNC-Lavalin, a position he held from May 1996 until his retirement in May 2009. Mr. Lamarre is an Officer of the Order of Canada and a founding member and past chair of the Commonwealth Business Council. He is also past chair of the board of directors of the Conference Board of Canada and a founding member of the World Economic Forum's Governors for Engineering & Construction. Currently, he serves as a director of PPP Canada Inc. and is a member of the Engineering Institute of Canada, Engineers Canada and the Ordre des ingénieurs du Québec. Mr. Lamarre holds a Bachelor of Arts and a Bachelor of Arts and Science in Civil Engineering from Université Laval in Quebec City. He also completed Harvard University's Executive Development Program. In addition, Mr. Lamarre holds honorary doctorates from the University of Waterloo, the University of Moncton and Université Laval. Among others, he has previously served on the board of the Royal Bank of Canada.
Maureen McCaw <sup>(1)(2)</sup> Alberta, Canada	Director since 2004 (Petro-Canada 2004 to July 31, 2009) Independent	Maureen McCaw is past executive vice-president (Edmonton) of Leger Marketing, formerly Criterion Research Corp., a company she founded in 1986. Ms. McCaw holds a Bachelor of Arts from the University of Alberta and an Institute of Corporate Directors certification (ICD.D). In addition to being president of Tinnakilly Inc. and a managing partner at Prism Ventures, Ms. McCaw is a director of the Canadian Broadcasting Corporation, and the Edmonton International Airport, and a member of the Alberta Securities Commission. Ms. McCaw also serves on a number of Alberta boards and advisory committees, including the Nature Conservancy of Canada (Alberta) and the Epcor Community Essentials Council and is past chair of the Edmonton Chamber of Commerce.
Michael W. O'Brien <sup>(3)(4)</sup> Alberta, Canada	Director since 2002 Independent	Michael O'Brien served as executive vice president, corporate development, and chief financial officer of Suncor Energy Inc. before retiring in 2002. Mr. O'Brien is lead director of Shaw Communications Inc. In addition, he is past chair of the board of trustees for the Nature Conservancy Canada, past chair of the Canadian Petroleum Products Institute and past chair of Canada's Voluntary Challenge for Global Climate Change. He has previously served on the boards of Teresen Inc., Primewest Energy Inc. and CRA International.
James Simpson <sup>(1)(4)</sup> Alberta, Canada	Director since 2004 (Petro -Canada 2004 to July 31, 2009) Independent	James Simpson is past president of Chevron Canada Resources (oil and gas). He serves as lead director for Canadian Utilities Limited and is on its Corporate Governance, Nomination, Compensation and Succession Committee, as well as being the chairman for its Audit Committee and Risk Review Committee. Mr. Simpson holds a Bachelor of Science and Master of Science, and graduated from the Program for Senior Executives at M.I.T.'s Sloan School of Business. He is also past chairman of the Canadian Association of Petroleum Producers and past vice chairman of the Canadian Association of the World Petroleum Congresses.

Suncor Directors Name and Jurisdiction of Residence	Period Served and Independence	Biography
Eira M. Thomas <sup>(3)(4)</sup> British Columbia, Canada	Director since 2006 Independent	Eira Thomas is a Canadian geologist with over 20 years of experience in the Canadian diamond business, including her previous roles as vice president of Aber Resources, now Dominion Diamond Corp., and as founder and CEO of Stornoway Diamond Corp. Currently, Ms. Thomas is chief executive officer and a director of Kaminak Gold Corporation, and a director of Lucara Diamond Corp. and Dundee Precious Metals Inc. (Dundee) <sup>(7)</sup> . She also serves on the board of the Prospectors and Developers Association of Canada.
Steven W. Williams Alberta, Canada	Director since December 2011 Non-independent, management	Steve Williams has served as the President of Suncor Energy Inc. since December 2011 and as Chief Executive Officer of Suncor Energy Inc. since May 2012. Mr. Williams is a fellow of the Institution of Chemical Engineers and is a member of the Institute of Directors. He is also one of twelve founding CEOs in Canada's Oil Sands Innovation Alliance, a member of the Canadian Council of Chief Executives and a member of the Business Advisory Council, School of Business at the University of Alberta.
Michael M. Wilson Alberta, Canada	Director since 2014 Independent	Michael Wilson is former president and chief executive officer of Agrium Inc., a retail supplier of agricultural products and services and a wholesale producer and marketer of agricultural nutrients, which is headquartered in Calgary, a position he held from 2003 until his retirement in 2013. He previously served as executive vice president and chief operating officer. Mr. Wilson has significant experience in the petrochemical industry, serving as president of Methanex Corporation, and holding various positions with increasing responsibility in North America and Asia with Dow Chemical Company. Mr. Wilson has a bachelor's degree in chemical engineering from the University of Waterloo and currently serves on the boards of Agrium Inc. (Agrium) <sup>(8)</sup> , Celestica Inc. and Finning International Inc. He is also the chair of the Calgary Prostate Cancer Foundation.

(1) Human Resources and Compensation Committee

(2) Environment, Health, Safety and Sustainable Development Committee

(3) Audit Committee

(4) Governance Committee

(5) Mr. D'Alessandro has indicated that he will not stand for re-election as a director of CIBC at CIBC's next annual meeting.

(6) Mr. Ford has indicated that he will not stand for re-election as a director of USG at USG's next annual meeting.

(7) Ms. Thomas has indicated that she will not stand for re-election as a director of Dundee at Dundee's next annual meeting scheduled for May 7, 2014.

(8) Mr. Wilson has indicated that he will not stand for re-election as a director of Agrium at Agrium's next annual meeting.

**Executive Officers**

The following individuals are the executive officers of Suncor:

Name	Jurisdiction of Residence	Office
Steven W. Williams	Alberta, Canada	President and Chief Executive Officer
Stephen D.L. Reynish	Alberta, Canada	Executive Vice President, Strategy & Corporate Development and Interim Chief Financial Officer
Eric Axford	Alberta, Canada	Executive Vice President, Business Services
Mark Little	Alberta, Canada	Executive Vice President, Upstream
Mike MacSween	Alberta, Canada	Executive Vice President, Major Projects
Kris Smith	Ontario, Canada	Executive Vice President, Refining and Marketing
Paul Gardner	Alberta, Canada	Senior Vice President, Human Resources
Janice Odegaard	Alberta, Canada	Senior Vice President, General Counsel and Corporate Secretary

As at February 24, 2014, the directors and executive officers of Suncor as a group beneficially owned, or controlled or directed, directly or indirectly, common shares of Suncor representing 0.05% of outstanding common shares.

**Cease Trade Orders, Bankruptcies, Penalties or Sanctions**

As at the date hereof, no director or executive officer of Suncor is or has been within the last ten years a director, chief executive officer or chief financial officer of a company that:

- (a) was the subject of a cease trade or similar order, or an order that denied the relevant company access to any exemption under securities legislation that was in effect for a period of more than 30 consecutive days while the director or executive officer was acting in that capacity; or
- (b) was subject to a cease trade order or similar order, or an order that denied the relevant company access to any exemption under securities legislation that was in effect for a period of more than 30 consecutive days, that was issued after the director or executive officer ceased to be a director, chief executive officer or chief financial officer and which resulted from an event that occurred while that person was acting in that capacity.

As at the date hereof, no director or executive officer of Suncor, or any of their respective personal holding companies, nor any shareholders holding a sufficient number of securities to affect materially the control of Suncor:

- (a) is, or has been within the last ten years, a director or executive officer of any company (including Suncor)

that, while that person was acting in that capacity, or within a year of that person ceasing to act in that capacity, became bankrupt, made a proposal under any legislation relating to bankruptcy or insolvency or was subject to or instituted any proceedings, arrangement or compromise with creditors or had a receiver, receiver manager or trustee appointed to hold its assets, other than Mr. Ford, a director of Suncor who is currently a director of USG Corporation, which was in bankruptcy protection until June 2006 and who was also a director of United Airlines (until February 2006), which was in Chapter 11 bankruptcy protection until February 2006; or

- (b) has, within the last ten years, become bankrupt, made a proposal under any legislation relating to bankruptcy or insolvency or become subject to or instituted any proceedings, arrangement or compromise with creditors, or had a receiver, receiver manager or trustee appointed to hold the assets of the director, executive officer or shareholder.

No director or executive officer of Suncor has been subject to:

- (a) any penalties or sanctions imposed by a court relating to securities legislation or by a securities regulatory authority or has entered into a settlement agreement with a securities regulatory authority; or
- (b) any other penalties or sanctions imposed by a court or regulatory body that would likely be considered important to a reasonable investor in making an investment decision.

## AUDIT COMMITTEE INFORMATION

The Audit Committee Mandate is attached as Schedule "A" to this AIF.

### Composition of the Audit Committee

The Audit Committee is comprised of Mr. O'Brien (Chairman), Mr. D'Alessandro, Mr. Lamarre, Mr. Haseldonckx and Ms. Thomas. All members are independent and financially literate. The education and expertise of each member is described in the Directors and Executive Officers section of this AIF.

For the purpose of making appointments to the company's Audit Committee, and in addition to the independence requirements, all directors nominated to the Audit Committee must meet the test of financial literacy as determined in the judgment of the Board of Directors. Also, at least one director so nominated must meet the test of financial expert as determined in the judgment of the Board of Directors. The designated financial experts on the Audit Committee are Mr. O'Brien and Mr. D'Alessandro.

### Financial Literacy

Financial literacy can be generally defined as the ability to read and understand a balance sheet, an income statement and a cash flow statement. In assessing a potential appointee's level of financial literacy, the Board of Directors must evaluate the totality of the individual's education and experience, including:

- the level of the person's accounting or financial education, including whether the person has earned an advanced degree in finance or accounting;
- whether the person is a professional accountant, or the equivalent, in good standing, and the length of time that the person actively has practiced as a professional accountant, or the equivalent;
- whether the person is certified or otherwise identified as having accounting or financial experience by a recognized private body that establishes and administers standards in respect of such expertise, whether that person is in good standing with the recognized private body, and the length of time that the person has been actively certified or identified as having this expertise;
- whether the person has served as a principal financial officer, controller or principal accounting officer of a corporation that, at the time the person held such position, was required to file reports pursuant to securities laws and, if so, for how long;
- the person's specific duties while serving as a public accountant, auditor, principal financial officer, controller, principal accounting officer or position involving the performance of similar functions;

- the person's level of familiarity and experience with all applicable laws and regulations regarding the preparation of financial statements that must be included in reports filed under securities laws;
- the level and amount of the person's direct experience reviewing, preparing, auditing or analyzing financial statements that must be included in reports filed under provisions of securities laws;
- the person's past or current membership on one or more audit committees of companies that, at the time the person held such membership, were required to file reports pursuant to provisions of securities laws;
- the person's level of familiarity and experience with the use and analysis of financial statements of public companies; and
- whether the person has any other relevant qualifications or experience that would assist him or her in understanding and evaluating the company's financial statements and other financial information and to make knowledgeable and thorough inquiries whether the financial statements fairly present the financial condition, results of operations and cash flows of the company in accordance with generally accepted accounting principles, or whether the financial statements and other financial information, taken together, fairly present the financial condition, results of operations and cash flows of the company.

### Audit Committee Financial Expert

An "Audit Committee Financial Expert" means a person who, in the judgment of the Board of Directors, has the following attributes:

- (a) an understanding of Canadian generally accepted accounting principles and financial statements;
- (b) the ability to assess the general application of such principles in connection with the accounting for estimates, accruals, and provisions;
- (c) experience preparing, auditing, analyzing or evaluating financial statements that present a breadth and level of complexity of accounting issues that are generally comparable to the breadth and complexity of issues that can reasonably be expected to be raised by Suncor's financial statements, or experience actively supervising one or more persons engaged in such activities;
- (d) an understanding of internal controls and procedures for financial reporting; and
- (e) an understanding of audit committee functions.

## AUDIT COMMITTEE INFORMATION

A person shall have acquired the attributes referred to in items (a) through (e) above through:

- (a) education and experience as a principal financial officer, principal accounting officer, controller, public accountant or auditor, or experience in one or more positions that involve the performance of similar functions;
- (b) experience actively supervising a principal financial officer, principal accounting officer, controller, public accountant, auditor or person performing similar functions;
- (c) experience overseeing or assessing the performance of companies or public accountants with respect to the preparation, auditing or evaluation of financial statements; or
- (d) other relevant experience.

### Audit Committee Pre-Approval Policies for Non-Audit Services

Our Audit Committee has considered whether the provision of services other than audit services is compatible with maintaining our auditors' independence and has a policy governing the provision of these services. A copy of our policy relating to Audit Committee approval of fees paid to our auditors, in compliance with the *Sarbanes-Oxley Act of 2002* and applicable Canadian law, is attached as Schedule "B" to this AIF.

### Fees Paid to Auditors

Fees paid or payable to PricewaterhouseCoopers LLP, the company's auditors are as follows:

(\$ thousands)	2013	2012
Audit Fees	6 108	5 904
Audit-Related Fees	519	429
Tax Fees	50	50
All Other fees	60	125
<b>Total</b>	<b>6 737</b>	<b>6 508</b>

Audit Fees were paid, or are payable, for professional services rendered by the auditors for the audit of Suncor's annual financial statements, or services provided in connection with statutory and regulatory filings or engagements. Audit-Related Fees were paid for professional services rendered by the auditors for the review of quarterly financial statements and for the preparation of reports on specified procedures as they relate to audits of joint arrangements and attest services not required by statute or regulation. Tax Fees for corporate tax filings and tax planning were paid in a foreign jurisdiction where Suncor has limited activity. All Other Fees were subscriptions to auditor-provided and supported tools. All services described beside the captions "Audit Fees", "Audit-Related Fees", "Tax Fees" and "All Other Fees" were approved by the Audit Committee in compliance with paragraph (c)(7)(i) of Rule 2-01 of Regulation S-X under the *U.S. Securities and Exchange Act of 1934*, as amended (the Exchange Act). None of the fees described above were approved by the Audit Committee pursuant to paragraph (c)(7)(i)(C) of Regulation S-X under the Exchange Act.

## LEGAL PROCEEDINGS AND REGULATORY ACTIONS

There are no legal proceedings in respect of which we are or were a party to, or in respect of which any of our property is or was the subject during the year ended December 31, 2013, nor are there any such proceedings known by us to be contemplated, that involve a claim for damages exceeding 10% of our current assets. In addition, there have not been any (a) penalties or sanctions imposed against the company by a court relating to securities legislation or by a securities regulatory authority during the year ended December 31, 2013, (b) any other penalties or sanctions imposed by a court or regulatory body against the company that would likely be considered important to a reasonable investor in making an investment decision, or (c) settlement agreements entered into by the company before a court relating to securities legislation or with a securities regulatory authority during the year ended December 31, 2013.

## INTEREST OF MANAGEMENT AND OTHERS IN MATERIAL TRANSACTIONS

No director or executive officer, or any associate or affiliate of these persons has, or has had, any material interest, direct or indirect, in any transaction or any proposed transaction that has materially affected or is reasonably expected to materially affect us within the three most recently completed financial years or during the current financial year.

## TRANSFER AGENT AND REGISTRAR

The transfer agent and registrar for our common shares is Computershare Trust Company of Canada at its principal offices in Calgary, Alberta, Montreal, Quebec, Toronto, Ontario and Vancouver, British Columbia and Computershare Trust Company Inc. in Denver, Colorado.

## MATERIAL CONTRACTS

During the year ended December 31, 2013, we have not entered into any contracts, nor are there any contracts still in effect, that are material to our business, other than contracts entered into in the ordinary course of business, which are not required to be filed by Section 12.2 of National Instrument 51-102 *Continuous Disclosure Obligations*.

## INTERESTS OF EXPERTS

Reserves and resources estimates contained in this AIF are based in part upon reports prepared by GLJ and Sproule, Suncor's independent qualified reserves evaluators. As at the date hereof, none of the partners, employees or consultants of GLJ or Sproule, respectively, as a group, through registered or beneficial interests, direct or indirect, held or are entitled to receive more than 1% of any class of our outstanding securities, including the securities of our associates and affiliates.

The company's independent auditors are PricewaterhouseCoopers LLP, Chartered Accountants, who have issued an independent auditor's report dated February 24, 2014 in respect of the Corporation's Consolidated Financial Statements, which comprise the Consolidated Balance Sheets as at December 31, 2013 and December 31, 2012 and the Consolidated Statements of Comprehensive Income, Changes in Shareholders' Equity and Cash Flows for the years ended December 31, 2013 and December 31, 2012, and the related notes, and the Corporation's internal control over financial reporting as at December 31, 2013. PricewaterhouseCoopers LLP has advised that they are independent with respect to the company within the meaning of the Rules of Professional Conduct of the Institute of Chartered Accountants of Alberta and the rules of the United States Securities and Exchange Commission.

## DISCLOSURE PURSUANT TO THE REQUIREMENTS OF THE NEW YORK STOCK EXCHANGE

As a Canadian issuer listed on the NYSE, we are not required to comply with most of the NYSE's rules and instead may comply with Canadian requirements. As a foreign private issuer, we are only required to comply with four of the NYSE's rules. These rules provide that: (i) Suncor must have an audit committee that satisfies the requirements of Rule 10A-3 under the Exchange Act; (ii) the Chief Executive Officer of Suncor must promptly notify the NYSE in writing after an executive officer becomes aware of any material non-compliance with the applicable NYSE rules; (iii) Suncor must provide a brief description of any significant differences between our corporate governance practices and those followed by U.S. companies listed under the NYSE; and (iv) Suncor must provide annual, and as required, written affirmations of compliance with applicable NYSE Corporate Governance rules. The company has disclosed in its 2014 management proxy circular, which is available on our website at [www.suncor.com](http://www.suncor.com), that, in certain instances, it is not required to obtain shareholder approval for material amendments to equity compensation plans and that Suncor, while in compliance with the independence requirements of applicable securities laws in Canada (specifically National Instrument 52-110 *Audit Committees*) and the U.S. (specifically Rule 10A-3 of the Exchange Act), it has not adopted, and is not required to adopt, the director independence standards contained in Section 303A.02 of the NYSE's Listed Company Manual, including with respect to its audit committee and compensation committee. The Board has not adopted, nor is it required to adopt, procedures to implement Section 303A.05(c)(iv) of the NYSE's Listed Company Manual in respect of compensation committee advisor independence. Except as described herein, the company is in compliance with the NYSE Corporate Governance standards in all other significant respects.

## ADDITIONAL INFORMATION

Additional information, including directors' and officers' remuneration and indebtedness, principal holders of our securities, and securities authorized for issuance under equity compensation plans, where applicable, is contained in our most recent management proxy circular for our most recent annual meeting of our shareholders that involved the election of directors. Additional financial information is provided in our 2013 audited Consolidated Financial Statements for our most recently completed financial year and in the MD&A.

Further information about Suncor, filed with Canadian securities commissions and the SEC, including periodic quarterly and annual reports and the 40-F is available online on SEDAR at [www.sedar.com](http://www.sedar.com) and on EDGAR at [www.sec.gov](http://www.sec.gov). In addition, our Standards of Business Conduct Code is available online at [www.suncor.com](http://www.suncor.com). Information contained in or otherwise accessible through our website does not form part of this AIF, and is not incorporated into the AIF by reference.

## ADVISORY – FORWARD-LOOKING INFORMATION

This AIF contains certain forward-looking information and forward-looking statements (collectively referred to herein as “forward-looking statements”) within the meaning of applicable Canadian and U.S. securities laws. Forward-looking statements and other information is based on Suncor’s current expectations, estimates, projections and assumptions that were made by the company in light of information available at the time the statement was made and consider Suncor’s experience and its perception of historical trends, including: expectations and assumptions concerning the accuracy of reserves and resources estimates; commodity prices and interest and foreign exchange rates; capital efficiencies and cost-savings; applicable royalty rates and tax laws; future production rates; the sufficiency of budgeted capital expenditures in carrying out planned activities; the availability and cost of labour and services; and the receipt, in a timely manner, of regulatory and third-party approvals. In addition, all other statements and other information that address expectations or projections about the future, and other statements and information about Suncor’s strategy for growth, expected and future expenditures or investment decisions, commodity prices, costs, schedules, production volumes, operating and financial results, future financing and capital activities, and the expected impact of future commitments are forward-looking statements. Some of the forward-looking statements and information may be identified by words like “expects”, “anticipates”, “will”, “estimates”, “plans”, “scheduled”, “intends”, “believes”, “projects”, “indicates”, “could”, “focus”, “vision”, “goal”, “outlook”, “proposed”, “target”, “objective”, “continue”, “should”, “may” and similar expressions.

Forward-looking statements in this AIF include references to:

Suncor’s expectations about production volumes and the performance of its existing assets, including:

- The continuation of the debottlenecking project of existing central processing facilities at MacKay River in 2014 that will increase bitumen processing capacity by 20% by the end of 2015 to a total capacity of 38 mbbls/d; and
- The TRO<sub>TM</sub> process is expected to accelerate and improve the company’s tailings management processes, eliminate the need for new tailings ponds at existing mining operations, and, in the years ahead, reduce the number of tailings ponds presently in operation.

The anticipated duration and impact of planned maintenance events, including:

- The next scheduled turnaround at Oil Sands Operations is in 2016; and
- At Terra Nova, the company plans to perform maintenance on several production wells and to

reinstate a second flowline to a subsea drill centre in 2014.

Suncor’s expectations about where future capital expenditures will be directed, the timing for completion of growth and other significant projects, and the results of such projects, including:

- The company’s expectations that the Voyageur South and Audet leases can be developed using mining techniques;
- The company’s expectations that the Meadow Creek, Lewis, Chard and Kirby leases can be developed using in situ techniques and that the company may undertake exploratory drilling programs;
- That the company plans to drill 50 core holes at Lewis and 66 core holes at Meadow Creek in winter 2014;
- The company plans to work towards a 2014 sanction decision of an additional central processing facility at MacKay River, which is targeted to have an initial design capacity of approximately 20 mbbls/d and first oil in 2017;
- Plans for centrifuge technology at Syncrude that separates water from tailings;
- The Fort Hills mining project is expected to produce first oil by the fourth quarter 2017 and is expected to achieve 90% of its planned production capacity of 180 mbbls/d (73 mbbls/d net to Suncor) within its first year;
- The company’s expected share of costs for the Fort Hills project are \$5.5 billion and project activities for 2014 are expected to focus on detailed engineering, procurement and ramp-up of field construction activities;
- Plans for the Joslyn North mining project, including 157 mbbls/d of bitumen production (gross);
- Development plans for Terra Nova, which will include a production well and a water injection well that the company anticipates will add production and mitigate natural declines from the reservoir;
- Development plans for the HSEU, which include drilling up to two additional production wells from the GBS platform and six water injection wells and that production from the HSEU is not expected to reach higher rates until 2015 when the planned water injection wells are completed;
- That the number of production and injection wells required at HSEU may need to be revised as development proceeds and uncertainties about reservoir capability are resolved;
- Development plans for the White Rose Extensions, including that the sanction is planned for the second half of 2014, that water injection infrastructure will be

installed in 2014 and first oil for the South White Rose Extension is expected in late 2014 or early 2015;

- Plans for Hebron that include a concrete GBS, integrated topsides deck, 1,200 mbbls of oil storage capacity, 52 well slots and a gross oil production capacity of 150 mbbls/d (net 34 mbbls/d to Suncor);
- Suncor's share of the post-sanction project costs for the Hebron project will be approximately \$2.8 billion and first oil is expected in 2017;
- That three oil and gas development wells drilled at Buzzard in 2013 will mitigate natural declines from the reservoir;
- Development plans for Golden Eagle, which include an initial gross production capacity of 70 mboe/d (19 mboe/d net to Suncor) from 21 development wells, gross development costs of £2 billion (Cdn\$3.5 billion), (£0.6 billion (Cdn\$1.0 billion) net to Suncor), and the company's expectations that first production will occur late in 2014 or early 2015;
- Plans for the continued evaluation of and further appraisal drilling in 2014 for the Beta discovery;
- Plans to commence drilling on an exploration well at the Myrhauk prospect late in 2014 and the Blackjack prospect during the first quarter of 2014;
- That Suncor's estimated cost remaining on its Libya exploration work program committed at December 31, 2013 was US\$349 million;
- Suncor's expectation that rail transport to Montreal will increase to approximately 35 mbbls/d by the end of 2014;
- The company expects to commission a second rail offloading facility in Tracy, Québec which is expected to enable access to eastern tide-waters for Oil Sands product and could commence as early as the second quarter of 2014; and
- The company's expectation that construction of the Adelaide wind project will commence in the second quarter of 2014, that the Cedar Point project will continue to progress through the regulatory process in 2014, and that the two projects will add 140 MW of gross installed capacity, increasing the gross installed capacity of Suncor's wind projects by 55%.

Also:

- The plan by Syncrude owners to develop mining areas adjacent to the current mine that would extend the life for Mildred Lake by approximately ten years, and that Syncrude expects to make regulatory applications for these areas in 2014;
- The co-owners of Syncrude do not expect that the Aurora South mining area will come on-stream before 2024, when production from the Mildred Lake mining area is expected to be complete;

- Suncor's plans to continue to pursue other opportunities in the North Sea, the Norwegian Sea and the Barents Sea;
- Suncor's plans to continue to pursue opportunities in offshore Newfoundland and Labrador;
- The compliance costs to Suncor in relation to SGER for 2014 are expected to be between \$20 million and \$25 million;
- Significant development activities and costs anticipated to occur or be incurred in 2014;
- Anticipated abandonment and reclamation costs;
- Anticipated royalty and income tax rates and the impact of these rates on Suncor;
- Anticipated effects of environmental and climate change legislation;
- Suncor's plans around its reserves and resources;
- Suncor's expectations that it will continue to engage the appropriate governmental bodies in meaningful dialogue in an effort to develop a harmonized system for GHG emissions regulations that focuses on achieving actual reduction goals and sustainable resource development;
- Suncor's belief that it will have sufficient funds available to fund its planned expenditures for 2014;
- Suncor's belief that existing cash balances, internally generated cash flows and existing credit facilities are sufficient to fund future development costs and that interest or other funding costs would not make development of any property uneconomical; and
- Suncor's belief that it will be able to successfully defend its original filing position in relation to certain derivative contracts so that ultimately no increased income tax payable will result from CRA's position.

Forward-looking statements and information are not guarantees of future performance and involve a number of risks and uncertainties, some that are similar to other oil and gas companies and some that are unique to Suncor. Suncor's actual results may differ materially from those expressed or implied by its forward-looking statements, so readers are cautioned not to place undue reliance on them.

The financial and operating performance of the company's reportable operating segments, specifically Oil Sands, Exploration and Production, and Refining and Marketing, may be affected by a number of factors:

Factors that affect our Oil Sands segment include, but are not limited to, volatility in the prices for crude oil and other production, and the related impacts of fluctuating light/heavy and sweet/sour crude oil differentials; changes in the demand for refinery feedstock and diesel fuel, including the possibility that refiners that process our proprietary production will be closed, experience

equipment failure or other accidents; our ability to operate our Oil Sands facilities reliably in order to meet production targets; the output of newly commissioned facilities, the performance of which may be difficult to predict during initial operations; the possibility that completed maintenance activities may not improve operational performance or the output of related facilities; our dependence on pipeline capacity and other logistical constraints, which may affect our ability to distribute our products to market; our ability to finance Oil Sands growth and sustaining capital expenditures; the availability of bitumen feedstock for upgrading operations, which can be negatively affected by poor ore grade quality, unplanned mine equipment and extraction plant maintenance, tailings storage, and in situ reservoir and equipment performance, or the unavailability of third-party bitumen; inflationary pressures on operating costs, including labour, natural gas and other energy sources used in oil sands processes; our ability to complete projects, including planned maintenance events, both on time and on budget, which could be impacted by competition from other projects (including other oil sands projects) for goods and services and demands on infrastructure in Alberta's Wood Buffalo region and the surrounding area (including housing, roads and schools); risks and uncertainties associated with obtaining regulatory and stakeholder approval for exploration and development activities; changes to royalty and tax legislation and related agreements that could impact our business; the potential for disruptions to operations and construction projects as a result of our relationships with labour unions that represent employees at our facilities; and changes to environmental regulations or legislation.

Factors that affect our Exploration and Production segment include, but are not limited to, volatility in crude oil and natural gas prices; operational risks and uncertainties associated with oil and gas activities, including unexpected formations or pressures, premature declines of reservoirs, fires, blow-outs, equipment failures and other accidents, uncontrollable flows of crude oil, natural gas or well fluids, and pollution and other environmental risks; the possibility that completed maintenance activities may not improve operational performance or the output of related facilities; adverse weather conditions, which could disrupt output from producing assets or impact drilling programs, resulting in increased costs and/or delays in bringing on new production; political, economic and socio-economic risks associated with Suncor's foreign operations, including the unpredictability of operating in Libya and that operations in Syria continue to be impacted by sanctions or political unrest; risks and uncertainties associated with obtaining regulatory and stakeholder approval for exploration and development activities; the potential for disruptions to operations and construction projects as a

result of our relationships with labour unions that represent employees at our facilities; and market demand for mineral rights and producing properties, potentially leading to losses on disposition or increased property acquisition costs.

Factors that affect our Refining and Marketing segment include, but are not limited to, fluctuations in demand and supply for refined products that impact the company's margins; market competition, including potential new market entrants; our ability to reliably operate refining and marketing facilities in order to meet production or sales targets; the possibility that completed maintenance activities may not improve operational performance or the output of related facilities; risks and uncertainties affecting construction or planned maintenance schedules, including the availability of labour and other impacts of competing projects drawing on the same resources during the same time period; and the potential for disruptions to operations and construction projects as a result of our relationships with labour unions or employee associations that represent employees at our refineries and distribution facilities.

Additional risks, uncertainties and other factors that could influence the financial and operating performance of all of Suncor's operating segments and activities include, but are not limited to, changes in general economic, market and business conditions, such as commodity prices, interest rates and currency exchange rates; fluctuations in supply and demand for Suncor's products; the successful and timely implementation of capital projects, including growth projects and regulatory projects; competitive actions of other companies, including increased competition from other oil and gas companies or from companies that provide alternative sources of energy; labour and material shortages; actions by government authorities, including the imposition or reassessment of taxes or changes to fees and royalties, such as Suncor's current disagreement with the Canada Revenue Agency relating to the settlement of certain derivative contracts, including the risk that Suncor may not be able to successfully defend its original filing position if it is reassessed and ultimately be required to pay increased taxes as a result; and changes in environmental and other regulations; the ability and willingness of parties with whom we have material relationships to perform their obligations to us; outages to third party infrastructure that could cause disruptions to production; the occurrence of unexpected events such as fires, equipment failures and other similar events affecting Suncor or other parties whose operations or assets directly or indirectly affect Suncor; the potential for security breaches of Suncor's information systems by computer hackers or cyberterrorists, and the unavailability or failure of such systems to perform as anticipated as a result of such breaches; our ability to find new oil and gas reserves that can be developed economically; the accuracy of Suncor's reserves, resources

*and future production estimates; market instability affecting Suncor's ability to borrow in the capital debt markets at acceptable rates; maintaining an optimal debt to cash flow ratio; the success of the company's risk management activities using derivatives and other financial instruments; the cost of compliance with current and future environmental laws; risks and uncertainties associated with closing a transaction for the purchase or sale of an oil and gas property, including estimates of the final consideration to be paid or received, the ability of counterparties to comply with their obligations in a timely manner and the receipt of any required regulatory or other third-party approvals outside of Suncor's control that are customary to transactions of this nature; and the accuracy of cost estimates, some of which are provided at the*

*conceptual or other preliminary stage of projects and prior to commencement or conception of the detailed engineering that is needed to reduce the margin of error and increase the level of accuracy. The foregoing important factors are not exhaustive.*

*Many of these risk factors and other assumptions related to Suncor's forward-looking statements and information are discussed in further detail throughout this AIF and in our MD&A. Readers are also referred to the risk factors and assumptions described in other documents that Suncor files from time-to-time with securities regulatory authorities. Copies of these documents are available without charge from the company.*

## SCHEDULE "A"

### AUDIT COMMITTEE MANDATE

#### The Audit Committee

The bylaws of Suncor Energy Inc. provide that the Board of Directors may establish Board committees to whom certain duties may be delegated by the Board. The Board has established, among others, the Audit Committee, and has approved this mandate, which sets out the objectives, functions and responsibilities of the Audit Committee.

#### Objectives

The Audit Committee assists the Board of Directors by:

- Monitoring the effectiveness and integrity of the Corporation's financial reporting systems, management information systems and internal control systems, and by monitoring financial reports and other financial matters.
- Selecting, monitoring and reviewing the independence and effectiveness of, and where appropriate replacing, subject to shareholder approval as required by law, external auditors, and ensuring that external auditors are ultimately accountable to the Board of Directors and to the shareholders of the Corporation.
- Reviewing the effectiveness of the internal auditors, excluding the Operations Integrity Audit department, which is specifically within the mandate of the Environment, Health & Safety Committee (references throughout this mandate to "Internal Audit" shall not include the Operations Integrity Audit department); and
- Approving on behalf of the Board of Directors certain financial matters as delegated by the Board, including the matters outlined in this mandate.

The Committee does not have decision-making authority, except in the very limited circumstances described herein or where and to the extent that such authority is expressly delegated by the Board of Directors. The Committee conveys its findings and recommendations to the Board of Directors for consideration and, where required, decision by the Board of Directors.

#### Constitution

The Terms of Reference of Suncor's Board of Directors set out requirements for the composition of Board Committees and the qualifications for committee membership, and specify that the Chair and membership of the committees are determined annually by the Board. As required by Suncor's by-laws, unless otherwise determined by resolution of the Board of Directors, a majority of the members of a committee constitute a quorum for meetings of committees, and, in all other respects, each committee determines its own rules of procedure.

#### Functions and Responsibilities

The Audit Committee has the following functions and responsibilities:

#### Internal Controls

1. Inquire as to the adequacy of the Corporation's system of internal controls, and review the evaluation of internal controls by Internal Auditors, and the evaluation of financial and internal controls by external auditors.
2. Review management's monitoring of compliance with the Corporation's Standards of Business Conduct Code.
3. Establish procedures for the confidential submission by employees of complaints relating to any concerns with accounting, internal control, auditing or Standards of Business Conduct Code matters, and periodically review a summary of complaints and their related resolution.
4. Review the findings of any significant examination by regulatory agencies concerning the Corporation's financial matters.
5. Periodically review management's governance processes for information technology resources, to assess their effectiveness in addressing the integrity, the protection and the security of the Corporation's electronic information systems and records.
6. Review the management practices overseeing officers' expenses and perquisites.

#### External and Internal Auditors

7. Evaluate the performance of the external auditors and initiate and approve the engagement or termination of the external auditors, subject to shareholder approval as required by applicable law.
8. Review the audit scope and approach of the external auditors, and approve their terms of engagement and fees.
9. Review any relationships or services that may impact the objectivity and independence of the external auditor, including annual review of the auditor's written statement of all relationships between the auditor (including its affiliates) and the Corporation; review and approve all engagements for non-audit services to be provided by external auditors or their affiliates.
10. Review the external auditor's quality control procedures including any material issues raised by the most recent quality control review or peer review and any issues raised by a government authority or professional authority investigation of the external auditor, providing details on actions taken by the firm to address such issues.

11. Review and approve the appointment or termination of the Head of Internal Audit, annually review a summary of the remuneration of the Head of Internal Audit, and periodically review the performance and effectiveness of the Internal Audit function including compliance with The Institute of Internal Auditors' International Professional Practices Framework for Internal Auditing.
12. Review the Internal Audit Department Charter, and the plans, activities, organizational structure and qualifications of the Internal Auditors, and monitor the department's independence.
13. Provide an open avenue of communication between management, the Internal Auditors or the external auditors, and the Board of Directors.

#### **Financial Reporting and other Public Disclosure**

14. Review the external auditor's management comment letter and management's responses thereto, and inquire as to any disagreements between management and external auditors or restrictions imposed by management on external auditors. Review any unadjusted differences brought to the attention of management by the external auditor and the resolution thereof.
15. Review with management and the external auditors the financial materials and other disclosure documents referred to in paragraph 16, including any significant financial reporting issues, the presentation and impact of significant risks and uncertainties, and key estimates and judgements of management that may be material to financial reporting, including alternative treatments and their impacts.
16. Review and approve the Corporation's interim consolidated financial statements and accompanying management's discussion and analysis ("MD&A"). Review and make recommendations to the Board of Directors on approval of the Corporation's annual audited financial statements and MD&A, Annual Information Form and Form 40-F. Review other material annual and quarterly disclosure documents or regulatory filings containing or accompanying audited or unaudited financial information.
17. Authorize any changes to the categories of documents and information requiring audit committee review or approval prior to external disclosure, as set out in the Corporation's policy on external communication and disclosure of material information.
18. Review any change in the Corporation's accounting policies.
19. Review with legal counsel any legal matters having a significant impact on the financial reports.

#### **Oil and Gas Reserves**

20. Review with reasonable frequency Suncor's procedures for:
  - (A) the disclosure, in accordance with applicable law, of information with respect to Suncor's oil and gas activities, including procedures for complying with applicable disclosure requirements;
  - (B) providing information to the qualified reserves evaluators (the "Evaluators") engaged annually by Suncor to evaluate Suncor's reserves data for the purpose of public disclosure of such data in accordance with applicable law.
21. Annually approve the appointment and terms of engagement of the Evaluators, including the qualifications and independence of the Evaluators; review and approve any proposed change in the appointment of the Evaluators, and the reasons for such proposed change, including whether there have been disputes between the Evaluators and management.
22. Annually review Suncor's reserves data and the report of the Evaluators thereon; annually review and make recommendations to the Board of Directors on the approval of (i) the content and filing by the Company of a statement of reserves data (the "Statement") and the report thereon of management and the directors to be included in or filed with the Statement, and (ii) the filing of the report of the Evaluators to be included in or filed with the Statement, all in accordance with applicable law.

#### **Risk Management**

23. Periodically review the policies and practices of the Corporation respecting cash management, financial derivatives, financing, credit, insurance, taxation, commodities trading and related matters. Oversee the Board's risk management governance model by conducting periodic reviews with the objective of appropriately reflecting the principal risks of the Corporation's business in the mandate of the Board and its committees. Conduct periodic review of and provide oversight on the specific Suncor Principal Risks which have been delegated to the Committee for oversight.

#### **Pension Plan**

24. Review the assets, financial performance, funding status, investment strategy and actuarial reports of the Corporation's pension plan including the terms of engagement of the plan's actuary and fund manager.

## AUDIT COMMITTEE MANDATE

### **Security**

25. Review on a summary basis any significant physical security management, IT security or business recovery risks and strategies to address such risks.

### **Other Matters**

26. Conduct any independent investigations into any matters which come under its scope of responsibilities.

27. Review any recommended appointees to the office of Chief Financial Officer.

28. Review and/or approve other financial matters delegated specifically to it by the Board of Directors.

### **Reporting to the Board**

29. Report to the Board of Directors on the activities of the Audit Committee with respect to the foregoing matters as required at each Board meeting and at any other time deemed appropriate by the Committee or upon request of the Board of Directors.

***Approved by resolution of the Board of Directors on November 19, 2013***

## SCHEDULE "B" – SUNCOR ENERGY INC. POLICY AND PROCEDURES FOR PRE-APPROVAL OF AUDIT AND NON-AUDIT SERVICES

Pursuant to the Sarbanes-Oxley Act of 2002 and Multilateral Instrument 52-110, the Securities and Exchange Commission (SEC) and the Ontario Securities Commission respectively have adopted final rules relating to audit committees and auditor independence. These rules require the Audit Committee of Suncor Energy Inc ("Suncor") to be responsible for the appointment, compensation, retention and oversight of the work of its independent auditor. The Audit Committee must also pre-approve any audit and non-audit services performed by the independent auditor or such services must be entered into pursuant to pre-approval policies and procedures established by the Audit Committee pursuant to this policy.

### I. Statement of Policy

The Audit Committee has adopted this Policy and Procedures for Pre-Approval of Audit and Non-Audit Services (the Policy), which sets forth the procedures and the conditions pursuant to which services proposed to be performed by the independent auditor will be pre-approved. The procedures outlined in this Policy are applicable to all Audit, Audit-Related, Tax Services and All Other Services provided by the independent auditor.

### II. Responsibility

Responsibility for the implementation of this Policy rests with the Audit Committee. The Audit Committee delegates its responsibility for administration of this policy to management. The Audit Committee shall not delegate its responsibilities to pre-approve services performed by the independent auditor to management.

### III. Definitions

For the purpose of these policies and procedures and any pre-approvals:

- (a) Audit Services include services that are a necessary part of the annual audit process and any activity that is a necessary procedure used by the auditor in reaching an opinion on the financial statements as is required under generally accepted auditing standards (GAAS), including technical reviews to reach audit judgment on accounting standards. The term Audit Services is broader than those services strictly required to perform an audit pursuant to GAAS and include such services as:
- (i) The issuance of comfort letters and consents in connections with offerings of securities;

- (ii) The performance of domestic and foreign statutory audits;
  - (iii) Attest services required by statute or regulation;
  - (iv) Internal control reviews; and
  - (v) Assistance with and review of documents filed with the Canadian Securities Administrators, the SEC and other regulators having jurisdiction over Suncor and its subsidiaries, and responding to comments from such regulators;
- (b) Audit-Related Services are assurance (e.g. due diligence services) and related services traditionally performed by the external auditors, which are reasonably related to the performance of the audit or review of financial statements and not categorized under Audit Services for disclosure purposes.

Audit-Related Services include:

- (i) Employee benefit plan audits, including audits of employee pension plans;
  - (ii) Due diligence related to mergers and acquisitions;
  - (iii) Consultations and audits in connection with acquisitions, including evaluating the accounting treatment for proposed transactions;
  - (iv) Internal control reviews;
  - (v) Attest services not required by statute or regulation; and
  - (vi) Consultations regarding financial accounting and reporting standards.
- Non-financial operational audits are not Audit-Related Services.
- (c) Tax Services include, but are not limited to, services related to the preparation of corporate and/or personal tax filings, tax due diligence as it pertains to mergers, acquisitions and/or divestitures, and tax planning; and
- (d) All Other Services consist of any other work that is neither an Audit Service, nor an Audit-Related Service nor a Tax Service, the provision of which by the independent auditor is not expressly prohibited by Rule 2-01(c)(7) of Regulation S-X under the Securities and Exchange Act of 1934, as amended. (See Appendix A for a summary of the prohibited services.)

#### IV. General Policy

The following general policy applies to all services provided by the independent auditor.

- All services to be provided by the independent auditor will require specific pre-approval by the Audit Committee. The Audit Committee will not approve engaging the independent auditor for services that can reasonably be classified as Tax Services or All Other Services unless a compelling business case can be made for retaining the independent auditor instead of another service provider.
- The Audit Committee will not provide pre-approval for services to be provided in excess of twelve months from the date of the pre-approval, unless the Audit Committee specifically provides for a different period.
- The Audit Committee has delegated authority to pre-approve services with an estimated cost not exceeding \$100,000 in accordance with this Policy to the Chairman of the Audit Committee. The delegate member of the Audit Committee must report any pre-approval decision to the Audit Committee at its next meeting.
- The Chairman of the Audit Committee may delegate his authority to pre-approve services to another sitting member of the Audit Committee provided that the recipient has also been delegated the authority to act as Chairman of the Audit Committee in the Chairman's absence. A resolution of the Audit Committee is required to evidence the Chairman's delegation of authority to another Audit Committee member under this policy.
- The Audit Committee will, from time to time, but no less than annually, review and pre-approve the services that may be provided by the independent auditor.
- The Audit Committee must establish pre-approval fee levels for services provided by the independent auditor on an annual basis. On at least a quarterly basis, the Audit Committee will be provided with a detailed summary of fees paid to the independent auditor and the nature of the services provided, and a forecast of fees and services that are expected to be provided during the remainder of the fiscal year.
- The Audit Committee will not approve engaging the independent auditor to provide any prohibited non-audit services as set forth in Appendix A.
- The Audit Committee shall evidence their pre-approval for services to be provided by the independent auditor as follows:
  - (a) In situations where the Chairman of the Audit Committee pre-approves work under his delegation of authority, the Chairman will evidence his pre-approval by signing and dating the pre-approval request form, attached as Appendix B. If it is not practicable for the Chairman to complete the form and transmit it to the Company prior to engagement of the independent audit, the Chairman may provide verbal or email approval of the engagement, followed up by completion of the request form at the first practical opportunity.
  - (b) In all other situations, a resolution of the Audit Committee is required.
- All audit and non-audit services to be provided by the independent auditors shall be provided pursuant to an engagement letter that shall:
  - (a) Be in writing and signed by the auditors;
  - (b) Specify the particular services to be provided;
  - (c) Specify the period in which the services will be performed;
  - (d) Specify the estimated total fees to be paid, which shall not exceed the estimated total fees approved by the Audit Committee pursuant to these procedures, prior to application of the 10% overrun; and
  - (e) Include a confirmation by the auditors that the services are not within a category of services the provision of which would impair their independence under applicable law and Canadian and U.S. generally accepted accounting standards.
- The Audit Committee pre-approval permits an overrun of fees pertaining to a particular engagement of no greater than 10% of the estimate identified in the associated engagement letter. The intent of the overrun authorization is to ensure on an interim basis only, that services can continue pending a review of the fee estimate, and, if required, further Audit Committee approval of the overrun. If an overrun is expected to exceed the 10% threshold, as soon as the overrun is identified, the Audit Committee or its designate must be notified and an additional pre-approval must be obtained prior to the engagement continuing.

#### **V. Responsibilities of External Auditors**

To support the independence process, the independent auditors will:

- (a) Confirm in each engagement letter that performance of the work will not impair independence;
- (b) Satisfy the Audit Committee that they have in place comprehensive internal policies and processes to ensure adherence, worldwide, to independence requirements, including robust monitoring and communications;
- (c) Provide communication and confirmation to the Audit Committee regarding independence on at least a quarterly basis;
- (d) Maintain registration by the Canadian Public Accountability Board and the U.S. Public Company Accounting Oversight Board; and

- (e) Review their partner rotation plan and advise the Audit Committee on an annual basis.

In addition, the external auditors will:

- (f) Provide regular, detailed fee reporting including balances in the work in progress account; and
- (g) Monitor fees and notify the Audit Committee as soon as a potential overrun is identified.

#### **VI. Disclosures**

Suncor will, as required by applicable law, annually disclose its pre-approval policies and procedures, and will provide the required disclosure concerning the amounts of audit fees, audit-related fees, tax fees and all other fees paid to its outside auditors in its filings with the SEC.

***Approved and Accepted April 28, 2004***

## Appendix A – Prohibited Non-Audit Services

An external auditor is not independent if, at any point during the audit and professional engagement period, the auditor provides the following non-audit services to an audit client.

*Bookkeeping or other services related to the accounting records or financial statements of the audit client.* Any service, unless it is reasonable to conclude that the results of these services will not be subject to audit procedures during an audit of Suncor's financial statements, including:

- Maintaining or preparing the audit client's accounting records;
- Preparing Suncor's financial statements that are filed with the SEC or that form the basis of financial statements filed with the SEC; or
- Preparing or originating source data underlying Suncor's financial statements.

*Financial information systems design and implementation.* Any service, unless it is reasonable to conclude that the results of these services will not be subject to audit procedures during an audit of Suncor's financial statements, including:

- Directly or indirectly operating, or supervising the operation of, Suncor's information systems or managing Suncor's local area network; or
- Designing or implementing a hardware or software system that aggregates source data underlying the financial statements or generates information that is significant to Suncor's financial statements or other financial information systems taken as a whole.

*Appraisal or valuation services, fairness opinions or contribution-in-kind reports.* Any appraisal service, valuation service or any service involving a fairness opinion or contribution-in-kind report for Suncor, unless it is reasonable to conclude that the results of these services will not be subject to audit procedures during an audit of Suncor's financial statements.

*Actuarial services.* Any actuarially-oriented advisory service involving the determination of amounts recorded in the financial statements and related accounts for Suncor other than assisting Suncor in understanding the methods, models, assumptions, and inputs used in computing an amount, unless it is reasonable to conclude that the results of these services will not be subject to audit procedures during an audit of Suncor's financial statements.

*Internal audit outsourcing services.* Any internal audit service that has been outsourced by Suncor that relates to Suncor's internal accounting controls, financial systems or financial statements, unless it is reasonable to conclude that the result of these services will not be subject to audit

procedures during an audit of Suncor's financial statements.

*Management functions.* Acting, temporarily or permanently, as a director, officer, or employee of Suncor, or performing any decision-making, supervisory, or ongoing monitoring function for Suncor.

*Human resources.* Any of the following:

- Searching for or seeking out prospective candidates for managerial, executive, or director positions;
- Engaging in psychological testing, or other formal testing or evaluation programs;
- Undertaking reference checks of prospective candidates for an executive or director position;
- Acting as a negotiator on Suncor's behalf, such as determining position, status or title, compensation, fringe benefits, or other conditions of employment; or
- Recommending, or advising Suncor to hire a specific candidate for a specific job (except that an accounting firm may, upon request by Suncor, interview candidates and advise Suncor on the candidate's competence for financial accounting, administrative, or control positions).

*Broker-dealer, investment adviser or investment banking services.* Acting as a broker-dealer (registered or unregistered), promoter, or underwriter, on behalf of Suncor, making investment decisions on behalf of Suncor or otherwise having discretionary authority over Suncor's investments, executing a transaction to buy or sell Suncor's investment, or having custody of Suncor's assets, such as taking temporary possession of securities purchased by Suncor.

*Legal services.* Providing any service to Suncor that, under circumstances in which the service is provided, could be provided only by someone licensed, admitted, or otherwise qualified to practice law in the jurisdiction in which the service is prohibited.

*Expert services unrelated to the audit.* Providing an expert opinion or other expert service for Suncor, or Suncor's legal representative, for the purpose of advocating Suncor's interest in litigation or in a regulatory or administrative proceeding or investigation. In any litigation or regulatory or administrative proceeding or investigation, an accountant's independence shall not be deemed to be impaired if the accountant provides factual accounts, including testimony, of work performed or explains the positions taken or conclusions reached during the performance of any service provided by the accountant for Suncor.

## Appendix B – Pre-Approval Request Form

NATURE OF WORK	ESTIMATED FEES (Cdn\$)
Total	

\_\_\_\_\_

Date

\_\_\_\_\_

Signature

## SCHEDULE "C" – FORM 51-101F2 REPORT ON RESERVES DATA BY INDEPENDENT QUALIFIED RESERVES EVALUATOR OR AUDITOR

To the Board of Directors of Suncor Energy Inc. (the "Company"):

1. We have evaluated the Company's reserves data as at December 31, 2013. The reserves data are estimates of proved reserves and probable reserves and related future net revenues as at December 31, 2013, estimated using forecast prices and costs.
2. The reserves data are the responsibility of the Company's management. Our responsibility is to express an opinion on the reserves data based on our evaluation.

We carried out our evaluation in accordance with standards set out in the Canadian Oil and Gas Evaluation Handbook (the "COGE Handbook") prepared jointly by the Society of Petroleum Evaluation Engineers (Calgary Chapter) and the Canadian Institute of Mining, Metallurgy & Petroleum (Petroleum Society).

3. Those standards require that we plan and perform an evaluation to obtain reasonable assurance as to whether the reserves data are free of material misstatement. An evaluation also includes assessing whether the reserves data are in accordance with principles and definitions presented in the COGE Handbook.
4. The following table sets forth the estimated future net revenues (before deduction of income taxes) attributed to proved plus probable reserves, estimated using forecast prices and costs and calculated using a discount rate of 10 percent, included in the reserves data of the Company evaluated by us for the year ended December 31, 2013, and identifies the respective portions thereof that we have evaluated and reported on to the Company's management and Board of Directors:

Independent Qualified Reserves Evaluator	Description and Preparation Date of Evaluation Report	Location of Reserves (Country or Foreign Geographic Area)	Net Present Value of Future Net Revenues Before Income Taxes (\$ millions, discounted at 10%)			
			Audited	Evaluated	Reviewed	Total
GLJ Petroleum Consultants Ltd.	Oil Sands In Situ January 22, 2014	Canada	—	20 143	—	20 143
GLJ Petroleum Consultants Ltd.	Oil Sands Mining January 8, 2014	Canada	—	22 446	—	22 446
			—	<b>42 589</b>	—	<b>42 589</b>

5. In our opinion, the reserves data respectively evaluated by us have, in all material respects, been determined and are in accordance with the COGE Handbook, consistently applied. We express no opinion on the reserves data that we reviewed but did not audit or evaluate.
6. We have no responsibility to update our reports referred to in paragraph 4 for events and circumstances occurring after their respective preparation dates.
7. Because the reserves data are based on judgments regarding future events, actual results will vary and the variations may be material.

EXECUTED as to our report referred to above:

GLJ Petroleum Consultants Ltd., Calgary, Alberta, Canada, February 28, 2014

*"Caralyn P. Bennett"*

Caralyn P. Bennett, P.Eng.  
Vice-President

## SCHEDULE "D" – FORM 51-101F2 REPORT ON RESERVES DATA BY INDEPENDENT QUALIFIED RESERVES EVALUATOR OR AUDITOR

To the Board of Directors of Suncor Energy Inc. (the "Company"):

1. We have evaluated the Company's reserves data as at December 31, 2013. The reserves data are estimates of proved reserves and probable reserves and related future net revenues as at December 31, 2013, estimated using forecast prices and costs.
2. The reserves data are the responsibility of the Company's management. Our responsibility is to express an opinion on the reserves data based on our evaluation.

We carried out our evaluation in accordance with standards set out in the Canadian Oil and Gas Evaluation Handbook (the "COGE Handbook") prepared jointly by the Society of Petroleum Evaluation Engineers (Calgary Chapter) and the Canadian Institute of Mining, Metallurgy & Petroleum (Petroleum Society).

3. Those standards require that we plan and perform an evaluation to obtain reasonable assurance as to whether the reserves data are free of material misstatement. An evaluation also includes assessing whether the reserves data are in accordance with principles and definitions presented in the COGE Handbook.
4. The following table sets forth the estimated future net revenues (before deduction of income taxes) attributed to proved plus probable reserves, estimated using forecast prices and costs and calculated using a discount rate of 10 percent, included in the reserves data of the Company evaluated by us for the year ended December 31, 2013, and identifies the respective portions thereof that we have evaluated and reported on to the Company's management and Board of Directors:

Independent Qualified Reserves Evaluator	Description and Preparation Date of Evaluation Report	Location of Reserves (Country or Foreign Geographic Area)	Net Present Value of Future Net Revenues Before Income Taxes (\$ millions, discounted at 10%)			
			Audited	Evaluated	Reviewed	Total
Sprole Associates Limited	East Coast Canada February 21, 2014	Newfoundland Offshore, Canada	—	8 175	—	8 175
Sprole Associates Limited	North America Onshore February 21, 2014	Western Canada	—	228	—	228
Sprole International Limited	North Sea February 21, 2014	North Sea, United Kingdom	—	7 500	—	7 500
Sprole International Limited	Other International February 21, 2014	Libya	—	4 433	—	4 433
			—	20 336	—	20 336

5. In our opinion, the reserves data respectively evaluated by us have, in all material respects, been determined and are in accordance with the COGE Handbook, consistently applied. We express no opinion on the reserves data that we reviewed but did not audit or evaluate.
6. We have no responsibility to update our reports referred to in paragraph 4 for events and circumstances occurring after their respective preparation dates.
7. Because the reserves data are based on judgments regarding future events, actual results will vary and the variations may be material.

EXECUTED as to our report referred to above:

Sprole Associates Limited and Sprole International Limited, Calgary, Alberta, Canada, February 28, 2014

"Harry J. Helwerda"

Harry J. Helwerda, P.Eng., FEC, FGC (Hon.)  
President & Chief Operating Officer and Director

## **SCHEDULE "E" – FORM 51-101F3 REPORT OF MANAGEMENT AND DIRECTORS ON RESERVES DATA AND OTHER INFORMATION**

Management of Suncor Energy Inc. (the "Company") are responsible for the preparation and disclosure of information with respect to the Company's oil and gas activities in accordance with securities regulatory requirements. This information includes reserves data, which are estimates of proved reserves and probable reserves and related future net revenues as at December 31, 2013, estimated using forecast prices and costs.

Independent qualified reserves evaluators have evaluated the Company's reserves data. The reports of the independent qualified reserves evaluators will be filed with securities regulatory authorities concurrently with this report.

The Audit Committee of the Board of Directors of the Company has:

- (a) reviewed the Company's procedures for providing information to the independent qualified reserves evaluators;
- (b) met with the independent qualified reserves evaluators to determine whether any restrictions affected the ability of the independent qualified reserves evaluators to report without reservation; and
- (c) reviewed the reserves data with management and the independent qualified reserves evaluators.

The Audit Committee of the Board of Directors has reviewed the Company's procedures for assembling and reporting other information associated with oil and gas activities and has reviewed that information with management. The Board of Directors has, on the recommendation of the Audit Committee, approved:

- (a) the content and filing with securities regulatory authorities of Form 51-101F1 containing reserves data and other oil and gas information;
- (b) the filing of Form 51-101F2 which is the report of the independent qualified reserves evaluators on the reserves data; and
- (c) the content and filing of this report.

Because the reserves data are based on judgments regarding future events, actual results will vary and the variations may be material.

*"Steven W. Williams"*  
STEVEN W. WILLIAMS  
President and Chief Executive Officer

*"Stephen D.L. Reynish"*  
STEPHEN D.L. REYNISH  
Interim Chief Financial Officer

*"John T. Ferguson"*  
JOHN T. FERGUSON  
Chairman of the Board of Directors

*"Michael W. O'Brien"*  
MICHAEL W. O'BRIEN  
Chair of the Audit Committee

February 28, 2014



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