

# Annual Information Form

March 3

**2021**

For the year ended  
December 31, 2020



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## NOTICE REGARDING FORWARD-LOOKING INFORMATION

Certain statements contained in this Annual Information Form may contain forward-looking statements and forward-looking information (collectively, "forward-looking information") within the meaning of applicable securities laws. Forward-looking information is frequently characterized by words such as "plan", "expect", "project", "intend", "believe", "anticipate", "estimate", "target", "scheduled", "potential", "forecast", "future", "strategy" or other similar words, or statements that certain events or conditions "may", "should", "might" or "could" occur. Forward-looking information is based on, among other things, the Corporation's expectations regarding its future growth, results of operations, production, future capital and other expenditures (including the amount, nature and sources of funding thereof), competitive advantages, plans for and results of drilling activity, environmental matters, business prospects and opportunities. Such forward-looking information reflects the Corporation's current beliefs and assumptions and is based on information currently available to it. Statements relating to "reserves" and "resources" are deemed to be forward-looking information, as they involve the implied assessment, based on certain estimates and assumptions, that the reserves and contingent resources described exist in the quantities predicted or estimated and can be profitably produced in the future. The assumptions relating to the reserves and contingent resources of the Corporation are discussed under the heading "Independent Reserves Evaluation" and Appendix D. Forward-looking information involves significant known and unknown risks and uncertainties. A number of factors could cause actual results to differ materially from the results discussed in the forward-looking information, including risks associated with the impact of general economic conditions, industry conditions, governmental regulation, volatility of commodity prices, currency fluctuations, uncertainties related to commodity price, interest rate and foreign exchange rate swap contracts and/or derivative financial instruments that the Corporation may enter into from time to time to manage its risk related to such prices and rates, imprecision of reserves and resources estimates, environmental risks, competition from other industry participants, the lack of availability of qualified personnel or management, stock market volatility and the Corporation's ability to access sufficient capital from internal and external sources, the risks discussed under "Risk Factors" and elsewhere in this Annual Information Form and in the Corporation's public disclosure documents, and other factors, many of which are beyond the Corporation's control. Although the forward-looking information is based on assumptions which the Corporation believes to be reasonable, the Corporation cannot make assurances that actual results will be consistent with such forward-looking information. Such forward-looking information is made as of the date of this Annual Information Form unless otherwise stated, and the Corporation assumes no obligation to update or revise such information to reflect new events or circumstances, except as required by applicable Canadian securities laws. Due to the risks, uncertainties and assumptions inherent in forward-looking information, prospective investors in the Corporation's securities should not place undue reliance on this forward-looking information. Unless otherwise indicated, all capitalized terms shall have the meanings set forth in the Glossary and Definitions section of this Annual Information Form.

Specific forward-looking information contained in this Annual Information Form includes, among others, statements pertaining to the following:

- the reserve and resource potential of the Corporation's assets;
- the bitumen production and design capacity of the Corporation's assets, including expected 2021 average production;
- the Corporation's strategy and opportunities, including additional development opportunities associated with the Corporation's existing properties;
- the Corporation's capital expenditure programs and future capital requirements, including the expectation that the Corporation's 2021 capital investment plan will be fully funded with internally generated cash flow;
- the Corporation's continuing intention to apply free cash flow to further debt reduction;
- the anticipated annual interest savings resulting from the Corporation's 2021 refinancing and debt payments;
- the estimated quantity and value of the Corporation's proved reserves, probable reserves and contingent resources;
- the Corporation's projections of commodity prices, price differentials, costs and netbacks;
- the Corporation's estimates of future interest and foreign exchange rates;
- the Corporation's environmental considerations, including water usage and GHG emissions;

- the Corporation's blending capability for its bitumen diluent blend;
- the timing and size of certain of the Corporation's operations, optimizations, and phases, including anticipated production levels from the Corporation's existing producing properties and its planned developments;
- supply and demand fundamentals for crude oil, bitumen blend, natural gas, electricity, condensate and other diluents;
- the Corporation's access to adequate pipeline capacity;
- the Corporation's access to third party infrastructure;
- industry conditions, including with respect to project development and potential government-imposed production curtailments;
- potential future markets for the Corporation's products;
- the planned construction of the Corporation's facilities;
- the anticipated timing and effect of turnaround activities;
- the Corporation's drilling plans;
- the Corporation's plans for, and results of, exploration and development activities;
- the receipt of regulatory approvals associated with potential expansions at the Christina Lake Project;
- the development of the Corporation's lease rationalization strategy;
- the Corporation's treatment under governmental regulatory and royalty regimes and tax laws;
- the Corporation's relationship with local and regional stakeholders;
- the Corporation's future general and administrative expenses; and
- the Corporation's dividend policy.

With respect to forward-looking information contained in this Annual Information Form, assumptions have been made regarding, among other things:

- future crude oil, bitumen blend, natural gas, electricity, condensate and other diluent prices, price differentials, foreign exchange rates and interest rates;
- the Corporation's ability to obtain qualified staff and equipment in a timely and cost-efficient manner;
- the regulatory framework governing royalties, land use, leases, taxes, production curtailments and environmental matters in the jurisdictions in which the Corporation conducts and will conduct its business;
- the Corporation's ability to market production of bitumen blend successfully to customers;
- the Corporation's future production levels and SORs;
- the applicability of technologies for the recovery and production of the Corporation's reserves and contingent resources;
- the recoverability of the Corporation's reserves and contingent resources;
- operating costs;
- future capital expenditures to be made by the Corporation;
- future sources of funding for the Corporation's capital programs;
- the Corporation's future debt levels;
- geological and engineering estimates in respect of the Corporation's reserves and contingent resources;
- the geography of the areas in which the Corporation is conducting exploration and development activities;

- the impact of increasing competition on the Corporation; and
- the Corporation's ability to obtain financing on acceptable terms.

Many of the foregoing assumptions are subject to change and are beyond the Corporation's control.

Some of the risks that could affect the Corporation's future results and could cause results to differ materially from those expressed in the forward-looking information include:

- a reduction in global crude oil and other petroleum product prices or a widening of differentials between differing grades of crude oil;
- the severity and duration of the COVID-19 global pandemic, including the potential for a temporary suspension of operations impacted by an outbreak of COVID-19 and continued weakness and volatility of crude oil and other petroleum products due to decreased global demand due to the COVID-19 pandemic;
- operating results;
- the Corporation's status and stage of development;
- the concentration of the Corporation's production in a single project;
- the majority of the Corporation's total reserves and contingent resources are non-producing and/or undeveloped;
- uncertainties associated with estimating reserves and resources volumes;
- long-term reliance on third parties;
- the effect or outcome of litigation;
- the effect of any diluent supply constraints and increases in the cost thereof;
- operational hazards;
- natural hazards such as lightning and fires;
- competition for, among other things, capital, the acquisition of reserves and resources, pipeline capacity and skilled personnel;
- risks inherent in the SAGD and eMSAGP bitumen recovery processes;
- changes to royalty regimes;
- the failure of the Corporation to meet specific requirements in respect of its mineral leases;
- aboriginal claims;
- unforeseen title defects and changes to the mineral tenure framework;
- risks arising from future acquisition activities;
- sufficiency of funds;
- fluctuations in market prices for crude oil, bitumen blend, price differentials, natural gas and electricity;
- general economic, market and business conditions;
- volatility of commodity inputs;
- variations in foreign exchange rates and interest rates;
- hedging strategies;
- national or global financial crises;
- environmental risks and hazards and the cost of compliance with current and future environmental legislation and regulations, including GHG regulations, potential climate change legislation and potential land use regulations,

- proposed export and import restrictions;
- failure to accurately estimate abandonment and reclamation costs;
- the need to obtain regulatory approvals and maintain compliance with regulatory requirements;
- the extent of, and cost of compliance with, laws and regulations and the effect of changes in such laws and regulations from time to time including changes which could restrict the Corporation's ability to access capital, both foreign and domestic;
- increased activism and public opposition to fossil fuel development;
- uncertainties associated with climate change, including both physical risks from changing or extreme weather patterns and transitional risks associated with the consequences of a global transition to a less carbon-intensive economy;
- failure to obtain or retain key personnel;
- potential conflicts of interest;
- changes to tax laws and government incentive programs;
- the potential for management estimates and assumptions to be inaccurate;
- risks associated with establishing and maintaining systems of internal controls;
- political risks and terrorist attacks;
- risks associated with downgrades in the credit ratings for the Corporation's securities;
- cybersecurity errors, omissions or failures;
- restrictions contained in the Credit Facility and the indentures governing our Notes (as defined herein) and future indebtedness.
- any requirements to incur additional indebtedness;
- the Corporation defaulting on its obligations under its indebtedness;
- the inability of the Corporation to generate cash to service its indebtedness; and
- the other factors discussed under the heading "Risk Factors" in this Annual Information Form.

In addition, design capacity is not necessarily indicative of the stabilized production levels that may be achieved at the Corporation's SAGD facilities as such production levels could be less or more than the design capacities. Moreover, reported average or instantaneous production levels may not be reflective of sustainable production rates and future production rates may differ materially from the production rates reflected in this Annual Information Form due to, among other factors, difficulties or interruptions encountered during the production of bitumen. Actual capital costs may differ from estimates of capital costs prepared by management in connection with the construction of the Corporation's projects and such differences may be material. Estimated capital costs are based on historical experience in constructing Phase 1, Phase 2 and Phase 2B of the Christina Lake Project, and the application of the Corporation's production enhancement program which uses a combination of proprietary reservoir technologies (including eMSAGP, as defined herein) and processing plant enhancements, debottlenecking and brownfield expansions, and have been adjusted for inflation, actual expenditures incurred to date and existing contractual commitments. However, costs for and access to required labour, services and equipment, operational efficiencies or difficulties in construction and drilling, changes in scope of design and weather conditions may individually or collectively materially impact the actual capital costs incurred in the construction of the Corporation's projects.

The information contained in this Annual Information Form, including the information provided under the heading "Risk Factors", identifies additional factors that could affect the Corporation's operating results and performance.

The foregoing list of risks, uncertainties and factors is not exhaustive. The effect of any one risk, uncertainty or factor on particular forward-looking information is uncertain because these factors are independent, and management's future course

of action would depend on an assessment of all available information at that time. Based on information available to the Corporation on the date of this Annual Information Form, management believes that the expectations in the forward-looking information are reasonable. However, the Corporation gives no assurances as to future results, levels of activity or achievements.

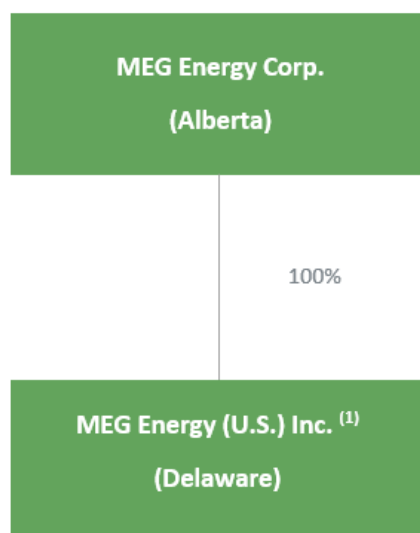
This cautionary statement qualifies all forward-looking information contained in this Annual Information Form.

## THE CORPORATION

### INCORPORATION AND ORGANIZATION

The Corporation was incorporated on March 9, 1999 under the ABCA. The Corporation's head office is located at 25<sup>th</sup> Floor, 600 – 3rd Avenue S.W., Calgary, Alberta, Canada T2P 0G5 and its registered office is located at 4500, 855 – 2nd Street S.W., Calgary, Alberta, Canada T2P 4K7.

MEG Energy (U.S.) Inc. ("MEG US"), a wholly-owned subsidiary of the Corporation, was incorporated on June 26, 2012 under the *Delaware General Corporation Law*. MEG US is the corporate vehicle used for the Corporation's marketing-related activities in the United States. The following organizational chart illustrates the current intercorporate relationship of the Corporation and MEG US.



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**Note:**

(1) MEG US is a guarantor under the Notes and the Credit Facility.

### THREE YEAR DEVELOPMENT

The following describes significant events and conditions that have influenced the development of the Corporation's business during the last three financial years:

#### 2018

**Debt Reduction Initiatives Including the Sale of Access Pipeline.** On March 22, 2018, the Corporation announced that it had successfully closed its sale of the Corporation's 50% interest in the Access Pipeline and its 100% interest in the Stonefell Terminal for cash proceeds of \$1.52 billion and other consideration of \$90 million. As part of the transaction, MEG entered into a transportation services agreement dedicating MEG's Christina Lake production and condensate transport to Access



Pipeline for an initial term of 30 years. The transaction also included a Stonefell Terminal lease agreement which is a 30-year arrangement that secures MEG operational control and exclusive use of 100% of Stonefell Terminal's 900,000 barrel blend and condensate storage facility. MEG used a portion of the proceeds from the sale of Access Pipeline and Stonefell Terminal to repay approximately US\$1.0 billion (\$1.2 billion) in first lien outstanding indebtedness.

**President and CEO appointment.** In the second quarter of 2018, the Corporation announced the retirement of Bill McCaffrey from his role as President & Chief Executive Officer as well as from the Board of Directors following the Corporation's Annual General Meeting. Harvey Doerr, a member of the Corporation's Board of Directors acted as interim CEO until Derek Evans was appointed to the position of President and Chief Executive Officer on August 10, 2018.

**Husky Energy unsolicited take-over bid.** On October 2, 2018, Husky Energy Inc. made an unsolicited offer to acquire all of the issued and outstanding common shares of the Corporation at the election of each of the Corporation's shareholders, for (i) \$11.00 in cash or (ii) 0.485 of a common share of Husky for each of the Corporation's common share, subject to a maximum aggregate cash consideration of \$1 billion and a maximum aggregate number of Husky common shares of approximately 107 million. The Husky offer expired on January 16, 2019.

## 2019

**Continuing Debt Reduction Initiatives.** Consistent with MEG's strategic focus on maintaining long-term financial liquidity, while pursuing ongoing debt repayment, MEG successfully conducted several debt reduction initiatives:

- MEG amended and restated its Credit Facility and its EDC Guaranteed L/C Facility and extended the maturity date of each facility by 2.75 years to July 30, 2024. The total borrowing capacity available under the two facilities was proactively reduced to \$1.3 billion, comprised of \$800 million under the revolving credit facility and \$500 million under the letter of credit facility;
- During 2019, MEG repaid \$501 million (US\$379 million) of long-term debt in 2019. This was accomplished through the repayment of the remainder of its first lien senior secured term loan balance of \$297 million (US\$225 million) and the repurchase and extinguishment of \$204 million (US\$154 million) of Second Lien Notes during the second half of 2019.

**Mandatory Government production curtailment.** Commencing January 1, 2019, the Government of Alberta enacted rules to limit the production of crude oil and bitumen primarily to address record high differentials between WTI and Canadian heavy oil prices. Effective December 31, 2020, the rules enacted by the Government of Alberta to limit the production of crude oil and bitumen are no longer in effect, although the Minister of Energy still has regulatory authority to curtail oil productions until December 31, 2021.

**Husky take-over bid expired.** On January 16, 2019, Husky's unsolicited offer to acquire all of the outstanding common shares expired without the minimum tender conditions being satisfied as a result of insufficient shareholder support for the offer.

**MEG's first ESG Report.** In the fourth quarter of 2019 MEG released its first Environmental, Social and Governance ("ESG") report, outlining innovative technologies MEG employs to increase production while decreasing costs and environmental impacts, including GHG emissions and water usage, minimizing MEG's impact on the environment. The ESG report also highlights MEG's ongoing engagement with communities, including Indigenous communities, and other stakeholder groups, associated with MEG's operations as well as MEG's commitment to building a diverse and inclusive workplace.

**Deferral of Surmont Project.** In connection with the planning of its 2020 capital program, and consistent with its strategic focus on continued application of all free cash flow to debt reduction, MEG elected to move the Surmont Project out of MEG's current development plan. Accordingly, 709 MMbbls of gross probable undeveloped reserves at Surmont were reclassified as contingent resources in the GLJ Report.

## 2020

**Continuing debt reduction initiatives.** On January 31, 2020 MEG completed a private offering of US\$1.2 billion in aggregate principal amount of 7.125% notes due in 2027. The net proceeds of the offering, together with cash on hand, were used to fully redeem US\$800 million in aggregate principal amount of senior unsecured notes due March 2023 and partially redeem



US\$400 million in aggregate principal amount of senior unsecured notes due March 2024 (2013 Notes). Concurrently, MEG redeemed US\$100 mm (\$132 million) of the Second Lien Notes due 2025. Subsequent to year end, on February 2, 2021, MEG successfully closed a private offering of US\$600 million in aggregate principal amount of 5.875% senior unsecured notes due in 2029 (2021 Notes). The net proceeds of the offering, together with cash on hand, were used to fully redeem US\$600 million in aggregate principal amount of 7.0% senior unsecured notes due March 2024 (2013 Notes). MEG currently expects annual interest savings resulting from the 2021 refinancing to be approximately US\$6.75 million. Since commencing debt repayment initiatives in 2018, MEG has repaid in aggregate US\$1.5 billion (\$2.0 billion) of outstanding indebtedness and ongoing debt reduction remains a core component of MEG's business strategy.

**Response to COVID-19.** On March 17, 2020, Alberta's Chief Medical Officer of Health declared a public health emergency in an effort to combat the spread of COVID-19 and on March 27, 2020 MEG's business activities were declared an essential service by the Alberta Government. At the onset of the global pandemic, MEG established a COVID-19 task force comprised of members of senior management and employees as well as third party expert consultants to promptly implement measures to protect the health and safety of MEG's work force and the public, as well as to ensure continuity of operations. MEG directed the vast majority of its office staff and certain non-essential field staff to work from home, and implemented mandatory self-quarantine policies, travel restrictions, screening protocols, enhanced cleaning and sanitation measures, social distancing measures, revised shift schedules and increased appropriate protective equipment. In September 2020, MEG safely returned to near-normal operations, with new safety measures in place, including the majority of staff returning to regular work locations. After COVID-19 infection rates began to rise significantly in early December 2020, in accordance with public health directives, MEG directed staff who are able to work from home to do so in order to reduce risks of exposure. To date, MEG has not experienced any COVID-19 outbreaks at any of its locations. Flexibility and adaptability continue to be integral to the MEG's response to the pandemic. MEG continues to monitor the developing COVID-19 situation to determine what, if any, additional measures might need to be taken to ensure that the health and safety of its people remain a top priority.

**Major Planned Turnaround Activities.** MEG conducted a major planned turnaround at the Phase 1 and 2 facilities, which began in early June 2020 and was completed mid-August 2020. The 2020 turnaround was extended in duration to 75 days and expanded in scope, relative to base budget, in order to minimize staff levels at site during COVID-19 and maximize utilization of MEG's internal resources thereby lowering overall cash costs. MEG also made the decision to advance turnaround activities from 2021 to significantly reduce 2021 turnaround requirements.

**2021 Capital Budget.** On December 7, 2020, MEG announced its 2021 capital investment plan, including a capital budget of \$260 million, which it expects to be fully funded with internally generated 2021 cash flow. MEG plans to optimize current production and to continue applying free cash flow to further debt reduction. Concurrently, MEG announced expected 2021 annual average production of 86,000 – 90,000 bbls/d.

## PROJECTS OVERVIEW

### BUSINESS OVERVIEW

MEG is an energy company focused on sustainable *in situ* thermal oil production in the southern Athabasca oil region of Alberta, Canada. MEG is actively developing innovative enhanced oil recovery projects that utilize SAGD extraction methods to improve the responsible economic recovery of oil as well as lower carbon emissions. MEG transports and sells thermal oil (known as Access Western Blend or AWB) to customers throughout North America and internationally.

MEG owns a 100% working interest in over 450 square miles of mineral leases. In the GLJ Report, which is dated effective December 31, 2020, GLJ estimated that the leases it had evaluated contained approximately 2.0 billion barrels of gross proved plus probable bitumen reserves at the Christina Lake Project, where MEG has regulatory approval in place for 210,000 bbls/d of production. At a design steam oil ratio (SOR) of 2.4, MEG has developed oil processing capacity of approximately 100,000 bbls/d at its Christina Lake central plant facility, prior to any impact from scheduled maintenance activity or outages, through the phased construction of the Christina Lake Project (described below) as well as several low-cost debottlenecking and expansion projects and the application of its proprietary reservoir technologies. The typical average annual production decline rate at the Christina Lake Project is approximately 10% to 15% and at the current production of approximately 90,000bbls/d, MEG has a proved plus probable (2P) reserve life index of approximately 60 years.

MEG has been able to realize production growth at the Christina Lake Project while minimizing GHG emissions intensity through the application of its proprietary technologies. Specifically, MEG's eMSAGP technology reduces the amount of steam required to produce a barrel of bitumen. Furthermore, MEG continues testing of its proprietary eMVAPEX technology at the Christina Lake Project, which involves the targeted injection of light hydrocarbons in replacement of steam. The Corporation also uses cogeneration, also known as combined heat and power generation, to create steam and power from a single heat source. The application of eMSAGP and cogeneration have enabled MEG to lower its GHG emission intensity more than 20% below the *in situ* industry volume weighted average calculated based on data reported to Environment Canada, the Alberta Energy Regulator and the Alberta Electric System Operator. By applying the eMSAGP process to significant portions of the Christina Lake Project, MEG achieved an average steam oil ratio of 2.3 in 2020 compared to the *in situ* industry volume weighted average of 3.1.<sup>1</sup>

MEG delivers its production to market via a long-term transportation services agreement on the Access Pipeline which connects to the Edmonton, Alberta sales hub and via additional pipelines, storage facilities and rail infrastructure to transport, store and sell AWB to customers in high value markets. MEG has contracted for 100,000 bbls/d of transportation capacity on the Flanagan South and Seaway pipeline systems providing pipeline transportation directly to U.S. Gulf Coast refineries and export terminals. Additionally, MEG is a shipper on the Trans Mountain Expansion Project which, when in service, will provide MEG with 20,000 bbls/d of committed access to Canada's West Coast. MEG has also contracted oil storage capacity of 2.8 million barrels in Alberta and strategic locations in the U.S., with marine export capacity at select U.S. Gulf Coast terminals. This combination of pipeline access, storage capacity and marine export capability, along with rail loading capacity at the Bruderheim Terminal, advances MEG's strategy of having long-term and reliable market access to world oil prices for its production.

The following table sets forth certain summary information from the GLJ Report with respect to MEG's assets as of December 31, 2020:

Asset	Proved	Probable	Proved plus Probable
	Reserves (MMbbls)	Reserves (MMbbls)	Before Tax PV-10% (MM\$)
Christina Lake Project	1,300	735	14,438
<b>Total<sup>(1)</sup></b>	<b>1,300</b>	<b>735</b>	<b>14,438</b>

**Note:**

(1) Proved and probable reserves include the Corporation's total interest, before royalties.

As of December 31, 2020, MEG employed 391 full time permanent employees and five (5) part-time permanent employees. MEG also engages a number of contractors and service providers.

## CHRISTINA LAKE PROJECT

The Christina Lake Project is situated on 80 square miles of mineral leases in the southern Athabasca region of Alberta. Phase 1, Phase 2 and Phase 2B are all approximately six miles northeast of Cenovus Energy Inc.'s Christina Lake SAGD project and 11 miles northeast of Canadian Natural Resources Limited's Jackfish SAGD project. MEG owns a 100% working interest in the mineral leases associated with its Christina Lake Project, which were largely acquired between 1999 and 2006 through Alberta Crown auctions and through purchases of existing leases from third parties.

## Reserves and Resources

### GLJ Report

In the GLJ Report, GLJ assigned proved developed reserves and proved undeveloped reserves to the Phase 1, Phase 2 and portions of Phase 2B of the Christina Lake Project, along with proved undeveloped reserves for sub-phases associated with the Corporation's production enhancement program which uses a combination of proprietary reservoir technologies

<sup>1</sup> Annual 2020 data as per the Alberta Energy Regulator ST53.

(including eMSAGP) and processing plant enhancements, debottlenecking and brownfield expansions at the Christina Lake Project. Probable reserves were assigned to Phases 1, 2, and 2B. Contingent resources were also assigned to the Christina Lake Project. See "Independent Reserves Evaluation" and Appendix D to this Annual Information Form.

## Geology

The reserves and contingent resources assigned by GLJ to the Christina Lake Project are contained within the Cretaceous-aged McMurray Formation. The McMurray Formation is a succession of sands and shale deposited in a fluvial estuarine environment that developed in a major valley that was cut into Devonian-aged limestone. Sands were deposited in tide-influenced channels. McMurray Formation is variably saturated with water, bitumen and natural gas. Bitumen from the McMurray Formation has an average API gravity of approximately 8 degrees.

The unconsolidated sands of the McMurray Formation at the Christina Lake Project are suitable for *in situ* recovery. The reservoir is situated at an average depth of 360 metres. The reservoir ranges in thickness from 9 to 56 metres with an average approximate thickness of 19 metres. Bitumen saturation is between 60% and 85%. Reservoir sands have average porosity of 33%. Absolute permeability of the sand is 3,000 to 5,000 millidarcies. Initial reservoir pressure is 2,100 kPa and *in situ* reservoir temperature is 12°C. Bitumen viscosity at reservoir temperature is typically greater than 1,000,000 centipoise.

## Production Overview

Phase 1 commenced production in 2008 with an initial bitumen production design capacity of approximately 3,000 bbls/d. Phase 2 commenced production in 2009 with an initial bitumen production design capacity of approximately 22,000 bbls/d, which utilized existing central processing facilities associated with Phase 1, and primarily expanded well pad drilling and tie-ins to increase production. Together, Phase 1 and Phase 2 had an initial bitumen production design capacity of approximately 25,000 bbls/d. In 2012, MEG commenced the deployment of eMSAGP and facilities modifications, including central processing facilities debottlenecking, which resulted in increased bitumen production from Phase 1 and Phase 2. Phase 2B commenced production in 2013 with an initial bitumen production design capacity of approximately 35,000 bbls/d. The combined Phase 1, Phase 2 and Phase 2B initial bitumen production design capacity was approximately 60,000 bbls/d. Supported by proprietary reservoir technologies, MEG has been able to subsequently increase overall bitumen production capacity to approximately 100,000 bbls/d through a series of low-cost debottlenecking and expansion projects and the redeployment of steam into new well pairs.

## Capital Investment

As a result of the significant commodity price volatility and unstable global economic atmosphere during 2020, the Corporation's guidance was revised from the original guidance five times during the year in response to changing market conditions. The most significant adjustment made was to capital expenditures, which were reduced by \$100 million from the original budget of \$250 million. The original planned capital spending was deferred from 2020 to 2021 and consisted mainly of additional well capital to increase production. As a result of the reduced capital spending, as well as voluntary production curtailments in the spring and the extended turnaround, the 2020 production guidance was reduced by about 13,000 bbls/d over the course of the year.

MEG's 2020 capital investment summary is as follows:

2020 Capital Investment Summary	\$ millions
Sustaining and maintenance .....	108
Turnaround .....	25
Phase 2B brownfield expansion .....	14
eMVAPEX .....	11
Field infrastructure, corporate and other .....	-
	158
eMVAPEX government grant .....	(9)
<b>Total</b>	<b>149</b>

In 2020, the Corporation produced an average of 82,441 bbls/d of bitumen from Christina Lake compared to 93,082 bbls/d in 2019. The Corporation's average annual SOR was 2.3 for the year ended December 31, 2020 as compared to 2.2 for the year ended December 31, 2019.

The table below summarizes MEG's unaudited operating costs, production levels and SORs for each quarter of 2020.

	MEG – Operating Costs 2020			
	First Quarter	Second Quarter	Third Quarter	Fourth Quarter
<b>Operating Costs (\$/bbl)</b>				
Energy costs <sup>(1)</sup> .....	\$0.94	\$2.05	\$2.09	\$2.28
Non-energy costs .....	\$4.57	\$4.09	\$3.96	\$4.70
<b>Total Net Operating Costs</b>	<b>\$5.51</b>	<b>\$6.14</b>	<b>\$6.05</b>	<b>\$6.98</b>
Production (bbls/d) .....	91,557	75,687	71,516	91,030
SOR .....	2.31	2.32	2.36	2.31

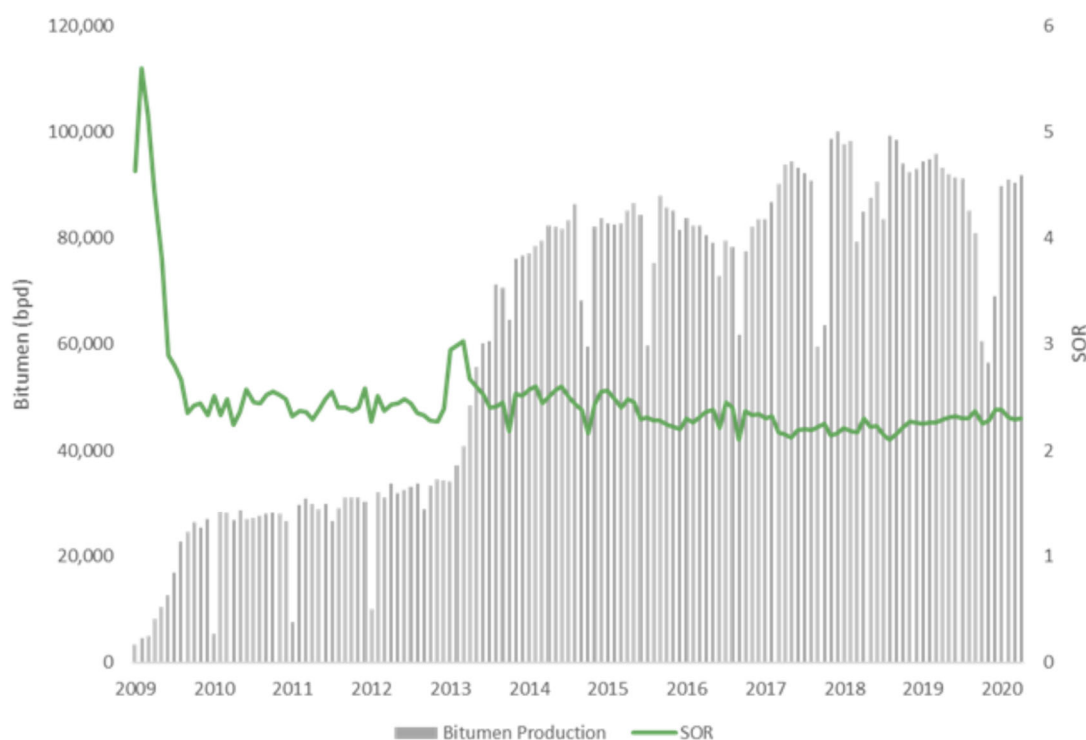
**Note:**

(1) Energy costs are presented net of power revenue.

Phase 2 and Phase 2B of the Christina Lake Project each include an 85 MW cogeneration facility (together 170 MW) which generate steam and power from the efficient use of natural gas and which are both operating near capacity. The capacity of the cogeneration units and heat recovery steam generator was chosen based on steam generation requirements, not based on MEG's power needs. Power is considered to be the by-product of the steam generation facilities and the sale of this power helps to offset natural gas input costs. Approximately 50% of the Phase 1, Phase 2 and Phase 2B steam generation capacity is provided by the cogeneration units and the heat recovery steam generator. The remainder is provided by conventional steam generators including once-through steam generators.

Bitumen production for the year ended December 31, 2020 averaged 82,441 bbls/d. 2021 annual average production is expected to be in the range of 86,000 bbls/d to 90,000 bbls/d.

## Historical Production and SOR Graphic



## Future Development at Christina Lake

MEG has regulatory approvals in place to support up to 210,000 bbls/d at the Christina Lake Project. At a design steam oil ratio of 2.4, MEG has developed oil processing capacity of approximately 100,000 bbls/d at its Christina Lake central plant facility, prior to any impact of scheduled maintenance activity or outages. MEG's near-term development plan is to restore production levels to fully utilize the 100,000 bbls/d Christina Lake plant processing capacity. Additionally, MEG has an inventory of low-cost execution-ready development projects to increase production beyond the 100,000 bbls/d level through the application brownfield expansions, although MEG has no current plans to initiate new development projects.

On December 7, 2020, MEG announced its 2021 capital investment plan, including a capital budget of \$260 million, which it expects to be fully funded with internally generated 2021 cash flow. MEG plans to optimize current production and to continue applying free cash flow to further debt reduction. Concurrently, MEG announced expected 2021 annual average production of 86,000 – 90,000 bbls/d.

## SURMONT PROJECT

The Surmont Project comprises 32 square miles of lands in the southern Athabasca region of Alberta. The Surmont Project is located approximately 50 miles south of Fort McMurray and is approximately 30 miles north of the Christina Lake Project. MEG's Surmont Project is situated along the same geological trend as the Christina Lake Project. This area has been extensively explored and developed for natural gas projects, and more recently for oil resources. Other *in situ* thermal recovery projects are already operating in this area. The Surmont Project is adjacent to an *in situ* thermal project operated by ConocoPhillips Canada. MEG owns a 100% working interest in its mineral leases associated with the Surmont Project. MEG has conducted extensive seismic programs and delineation drilling programs in the Surmont Project area. Management anticipates that the Surmont Project can support an average of over 120,000 bbls/d of production for approximately 20 years.

On September 13, 2012 the Corporation filed regulatory applications with the ERCB (now AER) and ESRD (now AEP) for the Surmont Project and received regulatory approval for the Surmont Project in September 2019.

### Geology

The McMurray Formation at the Surmont Project has similar reservoir properties to those at the Christina Lake Project. The reservoir is at an average depth of 250 metres. The reservoir sand ranges in thickness from 10 to 50 metres with an average thickness of 24 metres. Bitumen saturation is between 60% and 85%. Initial reservoir pressure is 1,500 kPa. At the Surmont Project, bitumen pay can be underlain by water saturated sand. The Corporation considers bottom water in direct contact with the bitumen pay to be manageable when utilizing proper SAGD operating strategies. Overlying gas pools are on occasion in contact with the McMurray Formation reservoir sands for the Surmont Project. Some of these gas pools have had historical gas production but were shut-in by the ERCB in 1999 in order to conserve the bitumen resource. Some depleted gas pools and lean zones that are in direct pressure communication with the bitumen reservoirs will require re-pressurization. The Surmont Project is expected to have access to adequate supplies of water from non-potable subsurface formations for steam generation as well as geological formations that can be used for water disposal.

### GLJ Report

Due to changes in the short-to-medium term strategic plan for the Corporation, in the 2019 GLJ Report the previously attributed probable undeveloped reserves attributable to the Surmont Project were reclassified to contingent resources and, together with the Corporation's previous contingent resources, were categorized as best estimate contingent resources - development on hold.

## MAY RIVER REGIONAL PROJECT

The May River Regional Project properties are situated on 181 square miles of lands in the southern Athabasca region of Alberta. MEG owns a 100% working interest in the mineral leases of its May River Regional Project, which it acquired between 2005 and 2017 through Alberta Crown auctions as well as through commercial agreements with third parties.

As of December 31, 2020, MEG had drilled and cored 118 stratigraphic test wells (core holes) and recorded 77 square miles of 3D seismic data over the Corporation's leases in the May River Regional Project area.

On February 21, 2017 the Corporation filed regulatory applications with the AER for the May River Regional Project. In October 2019, MEG requested that the regulatory review of the May River Regional Project be placed on hold. Specifically, MEG requested the regulatory review of the May River Regional Project be placed on a temporary hold until such hold is rescinded by MEG. The May River Regional Project timeline has been delayed given current economic conditions, the lack of investment capital in Alberta and constrained access to markets.

Management anticipates that the May River Regional Project can support an average of 164,000 bbls/d of production for over 20 years. The May River Regional Project is expected to use SAGD and eMSAGP development techniques similar to the Christina Lake Project.

## Geology

The McMurray Formation at the May River Regional Project has similar reservoir properties to those at the Christina Lake Project. The reservoir is at an average depth of 444 to 518 metres. The reservoir sand ranges in thickness from 10 to 40 metres with an average thickness of 20 metres. Bitumen saturation is between 60% and 85%. Initial reservoir pressure is between 1,825 kPa to 2,465 kPa. Bitumen pay at the May River Regional Project can be underlain by water-saturated sand. MEG considers bottom water in direct contact with the bitumen pay to be manageable when utilizing proper SAGD operating strategies. Overlying gas pools are on occasion in contact with the McMurray Formation reservoir sands. Some of these gas pools have had historical gas production but were shut-in by the ERCB in 2003 in order to conserve the bitumen resource. Some depleted gas pools that are in direct pressure communication with the bitumen reservoirs will require repressurization. MEG has water source opportunities from non-potable subsurface formations at the May River Regional Project and is evaluating several disposal options at this site.

## GROWTH PROPERTIES

The Growth Properties are situated on approximately 196 square miles of lands in the southern Athabasca region of Alberta and includes the Duncan, East Kirby and West Kirby mineral leases. MEG owns a 100% working interest in the mineral leases of the Growth Properties, which it acquired between 2005 and 2013 through Alberta Crown auctions as well as through purchases of existing leases from third parties. As of December 31, 2020, MEG has drilled 18 and cored 15 stratigraphic test wells over the Corporation's leases in the Growth Properties. MEG does not have current plans to develop the Growth Properties at this time.

## 2021 CAPITAL INVESTMENT

The Corporation announced a 2021 capital budget of \$260 million, which is expected to be fully funded within 2021 internally generated cash flow. The budget is designed primarily to sustain production guidance of 86,000 bbls/d to 90,000 bbls/d in 2021.

2021 Capital Investment Summary	\$ millions
Sustaining and maintenance .....	245
Field infrastructure, regulatory, corporate and other .....	15
<b>Total</b>	<b>260</b>

## ENVIRONMENTAL STRATEGY

In 2020, MEG continued resource development at Christina Lake by applying enhanced thermal *in situ* technologies using SAGD extraction as the basis. MEG's inherent sustainability advantages include a large resource base, low production decline and a low sustaining cost. The localized nature of MEG's asset permits MEG to economically develop the resource while minimizing environmental impacts. MEG is not engaged in oil sands mining or fracking activities. SAGD is a commercially proven technology that has numerous environmental advantages over mining operations, including:



- Reduced environmental footprint – in SAGD, production wells with a horizontal length of between 800 to 1000 metres are drilled from multi-well pads with minimal impact to the land. The surface area of a standard six-well production pad is approximately 9% of the surface of the development area accessed by the six horizontal well pairs on the pad and production pad footprint continues to be reduced by the deployment of MEG's third generation production pads in 2020.
- Water use – MEG does not use potable water in its thermal operation processes. MEG recycles approximately 90% of the produced water returned from the reservoir to generate steam. The remaining water demand is sourced from large underground non-potable water formations that provide water that would not otherwise be suitable for domestic or agricultural purposes. This water is treated for use in steam generators. Processed water containing impurities extracted from the produced water is returned to underground formations. There is no surface discharge of process water used in the operation.
- Reduced air emissions – MEG conserves the gas produced from the reservoir and supplements with natural gas to use as fuel to generate steam. This mixed gas stream has very similar properties to natural gas, resulting in lower overall emissions (including carbon dioxide and nitrous oxide).

In addition to the environmental advantages associated with SAGD projects relative to mining operations, MEG's operations have several important environmental advantages over some other SAGD projects, including:

- Low SOR – the quality of MEG's oil sands reservoir and the use of proprietary technology to extract bitumen results in lower SORs and therefore MEG is able to use less fuel, less make up water and produce less air emissions per barrel of bitumen produced;
- Clean burning technologies – MEG has incorporated clean burn technologies, which reduce nitrous oxide emissions per unit of natural gas burned. MEG also conserves produced and production lift gases for use in steam generation and has extensive fugitive emissions detection and management programs in place to monitor and reduce emissions;
- Minimizing land disturbances – MEG uses, where possible, existing disturbances for development in order to minimize further land disturbances and is actively reducing the footprint of its projects through innovative engineering designs;
- Cogeneration – MEG's natural gas turbines generate electricity that is used in its operations, with surplus power sold onto the Alberta electrical grid. The heat from the turbines is recovered by a heat recovery steam generator for use in the SAGD process, resulting in more efficient use of natural gas. Revenues from the sale of surplus power help offset the Corporation's energy costs. The increased efficiency of the cogeneration system helps reduce the overall provincial GHG footprint as any excess power that is sold into the Alberta electrical grid displaces other power sources that have a higher carbon intensity; and
- GHG management – MEG's low SOR resulting from the quality of the Corporation's reservoir and production enhancement program which uses a combination of proprietary reservoir technologies (including eMSAGP and potentially eMVAPEX) and processing plant enhancements, debottlenecking and brownfield expansions and the use of cogeneration results in effective GHG management and emission intensity reductions and offers the potential to further decrease the emissions intensity of MEG's production.

## Technology Development

To manage the risk of increasingly stringent carbon regulations, MEG has several strategies in place that align with the overall business objectives which are built on energy efficiency and technology advancements. Cogeneration has been utilized in facility design to optimize the production of both heat and electricity used in the recovery process from a single source and provides a benefit back to the provincial power grid of stable base load power. Reducing power production below the electricity performance benchmark has enabled MEG to earn emissions performance credits that can further offset compliance burden.

MEG continued to advance reservoir recovery technologies in 2020. eMSAGP was used on a commercial scale to boost production while lowering the Corporation's cash costs and environmental footprint. eMSAGP technology involves co-injecting a non-condensable gas into the reservoir with steam. Once there is sufficient heat in the reservoir, the non-

condensable gas helps maintain pressure and reduces the steam-oil ratio and frees up steam to be redeployed into new SAGD well pairs, thereby improving capital efficiency and reducing emissions.

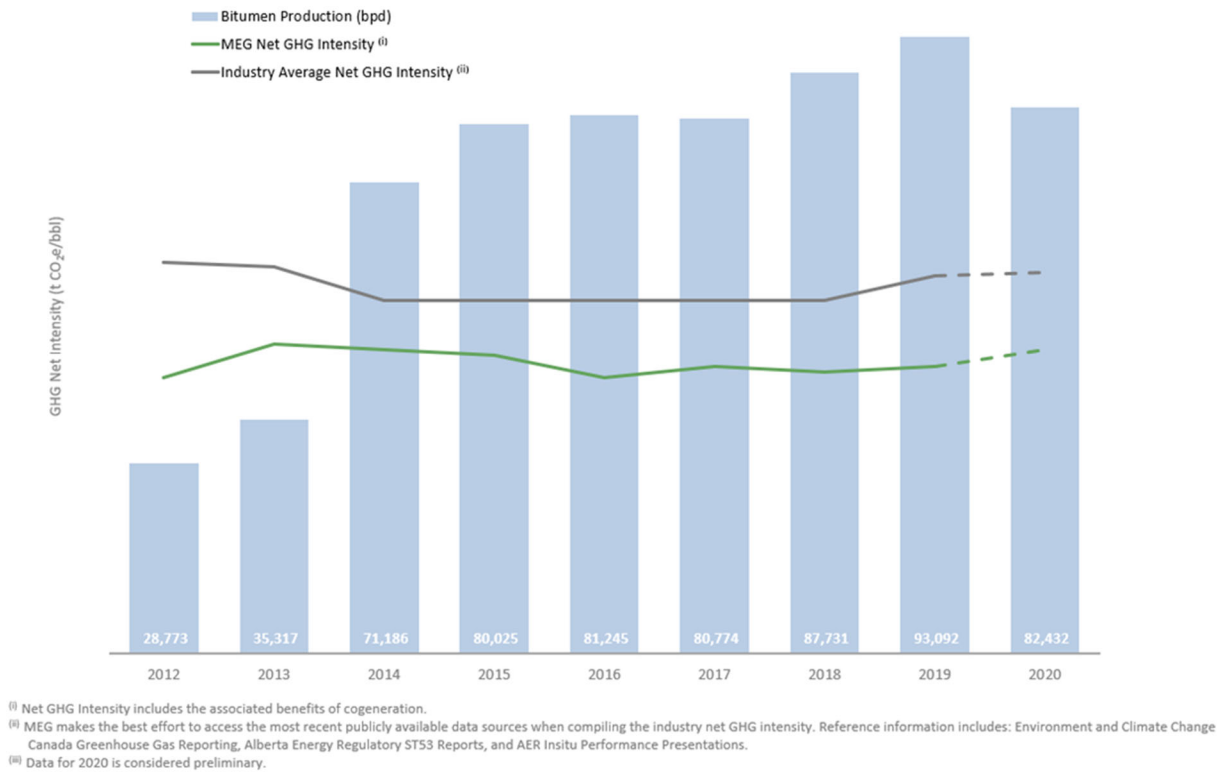
In 2020, MEG continued testing its eMVAPEX technology. This proprietary technology, if proven successful through expanded pilot operations, will further enhance MEG’s growth potential by reducing capital requirements, while minimizing environmental impacts to land, air and water. In 2020, the expanded eMVAPEX pilot continued operating with propane recycling facilities. The eMVAPEX pilot is funded in part through government grants received from Alberta Innovates, Natural Resources Canada, Emissions Reduction Alberta, and Sustainable Development Technology Canada.

Below is an overview of certain 2020 environmental performance measures and trends reported at MEG’s Christina Lake operations.

Net GHG Intensity Performance

MEG conserves greater than 99.5% of produced and processed methane. MEG’s Christina Lake facility is a gas conserving facility whereby flaring and venting is virtually eliminated in normal operating conditions. MEG’s methane emissions intensity is less than 1% of the methane emission intensity of United States shale producers in the Permian and Eagle Ford.<sup>2</sup>

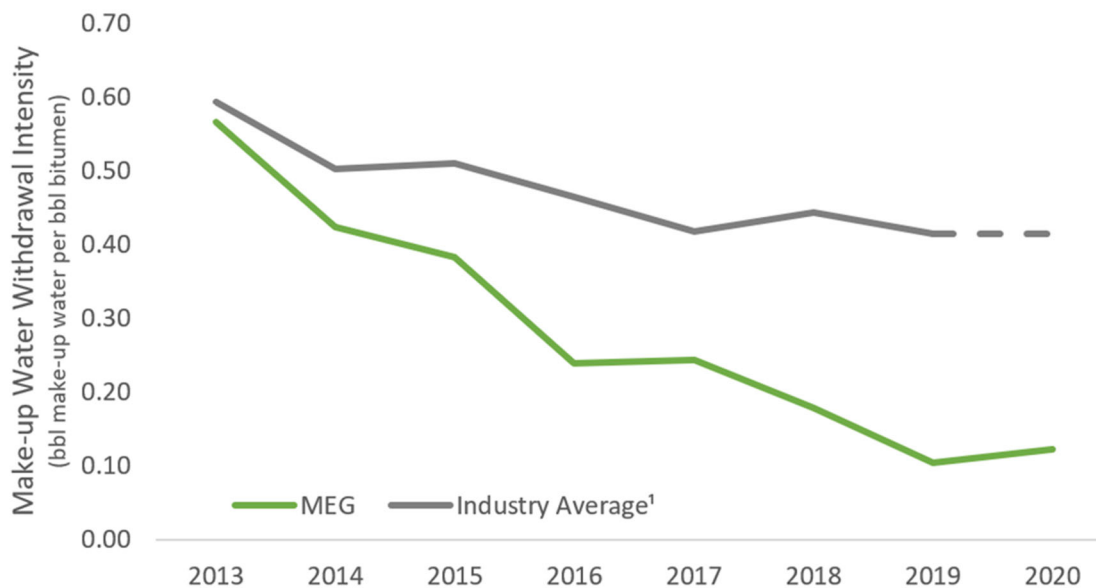
MEG’s net GHG intensity includes the associated emissions intensity reduction benefits of cogeneration. In 2020, MEG’s net GHG intensity increased slightly from the year prior due to lower production associated with an extended facility turnaround and increased steam rates resulting from production at new wells. The application of eMSAGP and cogeneration have enabled MEG to lower its net GHG intensity by more than 20% below the *in situ* industry, on a volume weighted average, which is calculated based on data reported to Environment and Climate Change Canada, the AER and the Alberta Electric System Operator.



<sup>2</sup> Schneising, O. et al (2020) - Remote sensing of methane leakage from natural gas and petroleum systems revisited. Atmospheric Chemistry and Physics.

## Makeup-Water Use

In 2020, MEG's make-up water withdrawal intensity (a ratio between a barrel of make up water used per barrel of bitumen produced) remained well below the industry volume weighted average due the application of eMSAGP and continued optimization of recycling technology.<sup>3</sup> MEG recycles the vast majority of the water recovered from the reservoir to produce steam while volumes remaining after water treatment, not suitable as boiler feedwater, are re-injected into sub-surface disposal zones that are hydraulically isolated from surrounding aquifers. Any additional make-up water demands for operations are met through deep non-potable groundwater sources. No potable fresh water is used by MEG as make-up water in thermal operations.



<sup>1</sup> In Situ Industry average make-up water intensity obtained from the AER Water Use Report. 2020 data is extrapolated from previous year.

## Land Disturbance

In 2020, MEG continued implementation of its third-generation production pad design on one well pad, continuing to take advantage of the work done to reduce pad size by up to 40% of prior well pad designs. The third-generation production pad design involves running injection and producer wells across from each other as opposed to side-by-side. This design allows for simplistic pad expansions with minimal footprint impact. In addition, MEG continues to optimize the design of access roadways and gathering lines to reduce right of way widths and overall footprint.

MEG is committed to minimizing total land disturbance in its operations and in 2020 continued restoration and reclamation activities within the Dillon River Wildland Park and the surrounding area. This area is adjacent to MEG's existing operations and overlaps Boreal Woodland Caribou habitat. Restoration efforts in this protected Wildland Park will assist in the species recovery efforts being undertaken by the Province of Alberta. To date, MEG has completed a total of approximately 8,000 hectares of restoration in high quality caribou habitat.

Further work in 2020 included obtaining reclamation certification of five gas well sites and four exploration core hole sites, as well as completing the civil reclamation scope of an exhausted borrow pit. MEG continues to maintain compliance with our obligations to remove inactive infrastructure from its operations.

<sup>3</sup> The *in situ* industry volume weighted average is sourced from the annual AER Water Use Report.

## ENVIRONMENTAL, SOCIAL AND GOVERNANCE ACTIVITIES

MEG continues to advance its ESG activities and strategy. In 2020, MEG's Board of Directors committed to supporting the Paris Agreement and approved the Corporation's long-term goal of reaching net zero GHG emissions (Scope 1 and Scope 2) by 2050. In addition, progress on ESG in 2020 included (a) the completion of an ESG materiality assessment in accordance with the Sustainability Accounting Standards Board ("SASB") standards to identify MEG's ESG priorities and initiatives, (b) the development of a Human Rights Policy Statement reflecting MEG's commitment to human rights as reflected in the UN Universal Declaration of Human Rights and (c) the enhancement of ESG metrics including increased alignment with the SASB recommendations.

MEG is also a supporter of the Task Force on Climate-related Financial Disclosures ("TCFD") recommendations and in 2020 MEG advanced its CDP Climate Disclosure and released a TCFD Index linking MEG's current disclosures to TCFD recommendations. This TCFD Index is available in the "Sustainability" section of MEG's website at [www.megenergy.com](http://www.megenergy.com).

Additional information regarding MEG's ESG actions, including the 2019 ESG Report, CDP Climate Response and CDP Water Response, is available in the "Sustainability" section of MEG's website at [www.megenergy.com](http://www.megenergy.com) and in MEG's annual 2020 MD&A.

## MARKETING OVERVIEW

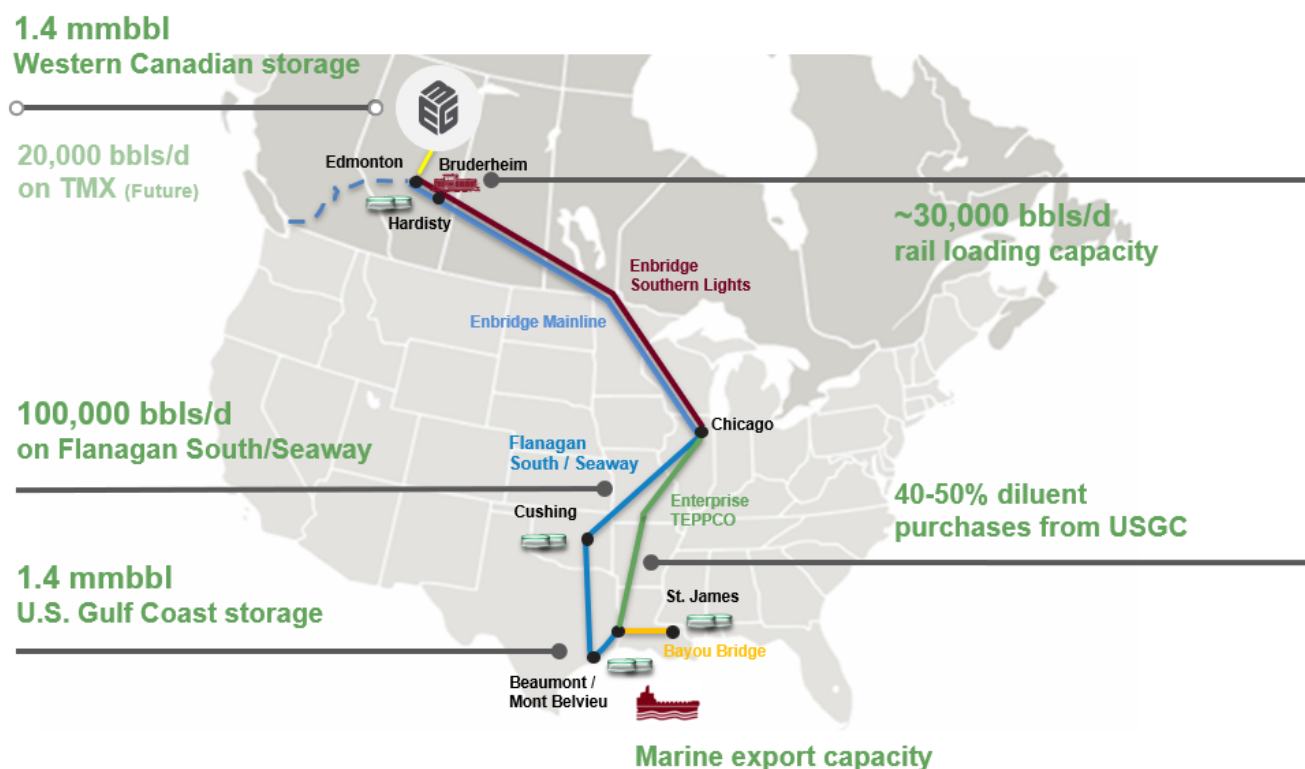
MEG employs a marketing strategy that delivers and sells its production to oil markets throughout North America and internationally. MEG owns, leases and contracts for services on multiple facilities to transport, store and deliver AWB to customers. Prior to July 1, 2020, MEG had 50,000 bbls/d of contracted AWB transportation capacity on the Flanagan South and Seaway pipeline systems ("FSP") providing pipeline transportation directly to U.S. Gulf Coast ("USGC") refineries and export terminals. On July 1, 2020, the Corporation's contracted AWB transportation capacity increased to 100,000 bbls/d on FSP. MEG is also a shipper on the Trans Mountain Expansion Project which, when in service, will provide MEG with 20,000 bbls/d of contracted AWB transportation capacity to Canada's West Coast. MEG has also contracted oil storage capacity of 2.8 million barrels in Alberta and strategic locations in the U.S., with marine export capacity at select U. S. Gulf Coast terminals. This combination of pipeline access, storage capacity and marine export capacity, along with rail loading capacity at the Bruderheim Terminal, comprises MEG's strategy of having long-term and reliable market access to world oil prices for its production.

MEG has a long-term commitment to deliver AWB on the Access Pipeline from its Christina Lake Project to the Edmonton market connecting to local refineries and export pipelines. The Access Pipeline is comprised of an AWB blend pipeline system and diluent pipeline system. The AWB blend pipeline system runs from the Christina Lake Project to Edmonton. The diluent pipeline system runs from the Edmonton area to MEG's Christina Lake Project and allows MEG to effectively manage its local and import sourced diluent supply for purposes of blending with its Christina Lake production. The diluent system receives volumes from numerous local diluent production streams and fractionation facilities as well as imported diluent volumes from inbound pipelines and rail terminals. The diluent system is well connected to key pipeline and storage systems in the Edmonton/Fort Saskatchewan corridor, including the Enbridge TEPPCO and Southern Lights import pipelines for access to Mont Belvieu supply. This system provides a range of diluent supply alternatives and helps to mitigate diluent supply and price risk.

In the Edmonton area, MEG has contracted approximately 1.4 million barrels of storage and terminalling capacity, including approximately 900,000 barrels of capacity at the Stonefell Terminal. The Stonefell Terminal is connected to the Access Pipeline System and provides the Corporation with the ability to: (i) sell and deliver AWB to a variety of markets; (ii) access multiple sources of diluent; and (iii) store both bitumen blend and diluent in periods of market and transportation disruptions or constraints. Stonefell Terminal is directly connected by pipeline to the Bruderheim Terminal, where MEG has loading capacity for AWB transport by rail. MEG does not anticipate undertaking any AWB blend sales by rail in 2021.

MEG has contracted for pipeline capacity, storage capacity and marine export capacity in the U.S. Gulf Coast area. Specifically, MEG has contracted for approximately 1 million barrels of storage capacity, along with of marine export capacity, at Beaumont, Texas. MEG has also contracted for capacity on the Bayou Bridge pipeline and 350,000 barrels of storage capacity at St. James, Louisiana.

## MEG Marketing Network Schematic



## INDEPENDENT RESERVES EVALUATION

MEG is required to report its reserves and to provide other oil and gas information in accordance with National Instrument 51-101—*Standards of Disclosure for Oil and Gas Activities* ("NI 51-101"). The Corporation engaged GLJ to prepare the GLJ Report. Specifically, GLJ evaluated certain of the Corporation's 100% working interest assets at the Christina Lake Project, the Surmont Project and the May River Regional Project. All of the Corporation's properties are located in the Province of Alberta and are described elsewhere in this Annual Information Form. See "Projects Overview".

GLJ is a private Canadian company established in 1972 which provides independent engineering and geological consulting services to the petroleum industry. GLJ's services include economic evaluations, technical studies, advice and opinions. GLJ carried out its evaluations in accordance with standards established by the Canadian Securities Administrators in NI 51-101. Those standards require that the reserves and contingent resources data be prepared in accordance with the COGE Handbook. GLJ's responsibility is to express opinions on the reserves and contingent resources data including the associated net present values based on its evaluations. The preparation and disclosure of the reported reserves and contingent resources estimates are the responsibility of the Corporation's management.

GLJ's "Report on Reserves Data, Contingent Resource Data and Prospective Resources Data by Independent Qualified Reserves Evaluator or Auditor" in the form of Form 51-101F2 is set forth in Appendix A to this Annual Information Form. The Corporation's "Report of Management and Directors on Oil and Gas Disclosure" in the form of Form 51-101F3 is set forth in Appendix B to this Annual Information Form. Supplemental disclosure concerning the Corporation's contingent resources is set out in Appendix D to this Annual Information Form.

The GLJ Report does take into account taxes or other amounts payable by MEG at Christina Lake pursuant to existing provincial and federal laws and regulations that restrict or otherwise regulate GHG emissions (including without limitations the Climate Change and Emissions Management Act (Alberta) and Technology Innovation and Emissions Reduction Regulation which came into force on October 29, 2019). The GLJ Report does not take into account taxes or other amounts that may be payable by MEG as a result of new or proposed laws or regulations which may be enacted at a later date. See "Regulatory

Matters – Environmental Regulation", "Regulatory Matters – The Future of GHG Emission Regulations" and "Risk Factors – Environmental and Regulatory Risks".

The information set forth below relating to the Corporation's reserves and in Appendix D relating to the Corporation's contingent resources constitutes forward-looking information which is subject to certain risks and uncertainties. See "Notice Regarding Forward-Looking Information" and "Risk Factors".

## RESERVES CLASSIFICATION

The estimated recoverable volumes from an *in situ* bitumen project are classified according to their stage of development. Before a regulatory application seeking approval to proceed with a project has been initiated, the associated estimated recoverable volumes may be classified as contingent resources. Upon the initiation of the regulatory approval process, determining the project has positive economics, and defining the timing of development, and assuming no other significant contingencies exist, a portion of the estimated recoverable volumes associated with the project may then be classified as reserves. These reserves may be categorized as proved reserves, probable reserves or possible reserves, depending on the degree of certainty associated with the estimates. Proved reserves would only be assessed following regulatory approval and corporate sanctioning of the project. Each of these categories may be further divided into developed and undeveloped categories. Developed reserves are those reserves that are expected to be recovered from existing wells and installed facilities or, if facilities have not been installed, that would involve a low expenditure (e.g. when compared to the cost of drilling a well) to put the reserves on production. Undeveloped reserves are those reserves expected to be recovered from known accumulations where a significant expenditure (e.g. when compared to the cost of drilling a well) is required to render them capable of production.

Through the GLJ Report, GLJ assigned: (i) proved developed producing reserves in respect of Phase 1, Phase 2 and portions of Phase 2B of the Christina Lake Project; (ii) proved developed non-producing reserves in respect of Phase 1, Phase 2 and portions of Phase 2B at the Christina Lake Project; (iii) proved undeveloped reserves in respect of Phase 1, Phase 2 and portions of Phase 2B sustaining wells and sub-phases associated with the Corporation's production enhancement program which uses a combination of proprietary reservoir technologies (including eMSAGP) and processing plant enhancements, debottlenecking and brownfield expansions of the Christina Lake Project; and (iv) probable undeveloped reserves in respect of Phases 1, 2, 2B and sub-phases associated with the Corporation's production enhancement program which uses a combination of proprietary reservoir technologies (including eMSAGP) and processing plant enhancements, debottlenecking and brownfield expansions of the Christina Lake Project. Additional recoverable volumes of bitumen were classified as contingent resources. See Appendix D to this Annual Information Form.

## Reserves Estimates

Below is a summary of MEG's bitumen reserves and the value of future net revenues from such bitumen reserves as of December 31, 2020 as evaluated by GLJ in the GLJ Report, reflecting the Corporation's 100% working interest in the Christina Lake leases. The aggregate reserves estimates and valuations presented in this section are arithmetic sums of the estimates and valuations contained in the GLJ Report. The pricing used in the forecast price evaluations is set forth below under "GLJ Price Forecast".

**The reserves estimates described herein are estimates only and the actual quantities of recoverable bitumen may be greater or less than those estimated. The estimated future net revenues contained in the following tables do not necessarily represent the fair market value of the Corporation's reserves. All evaluations of future revenue are after the deduction of royalties, development costs, production costs and well abandonment costs but before consideration of indirect costs such as administrative, overhead and other miscellaneous expenses. There is no assurance that the forecast price and cost assumptions contained in the GLJ Report will be realized and variances could be material. Other assumptions and qualifications relating to project schedules, costs and other matters are inherent in these estimates. See "Notice Regarding Forward-Looking Information" and "Risk Factors".**



## Summary of Bitumen Reserves as of December 31, 2020 (Forecast Prices and Costs)

Reserves Category	Bitumen	
	Gross <sup>(1)</sup> (MMbbls)	Net <sup>(2)</sup> (MMbbls)
<b>Proved Reserves<sup>(3)</sup></b>		
Proved Developed Producing .....	283.7	238.9
Proved Developed Non-Producing .....	7.3	5.6
Proved Undeveloped .....	1,008.5	783.1
<b>Total Proved Reserves .....</b>	<b>1,299.5</b>	<b>1,027.5</b>
<b>Total Probable Reserves<sup>(4)</sup> .....</b>	<b>735.2</b>	<b>538.8</b>
<b>Total Proved Plus Probable Reserves<sup>(5)</sup> .....</b>	<b>2,034.7</b>	<b>1,566.3</b>

### Notes:

- (1) "Gross" is the Corporation's working interest share before deducting royalties.
- (2) "Net" is the Corporation's working interest share after deducting royalties.
- (3) "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.
- (4) "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.
- (5) Totals may not add due to rounding.

Reserves Category	Net Present Value of Future Net Revenue as of December 31, 2020 Before Income Taxes (Forecast Prices and Costs)					
	Before Income Taxes Discounted at %/Year					Unit Value Before Income Taxes Discounted at 10%/Year <sup>(1)</sup>
	0% (MM\$)	5% (MM\$)	10% (MM\$)	15% (MM\$)	20% (MM\$)	\$/bbl
<b>Proved Reserves</b>						
Proved Developed Producing .....	8,791	7,260	6,093	5,201	4,511	25.50
Proved Developed Non-Producing .....	246	162	110	77	55	19.71
Proved Undeveloped .....	31,443	12,097	5,478	2,805	1,562	7.00
<b>Total Proved Reserves<sup>(2)</sup> .....</b>	<b>40,480</b>	<b>19,519</b>	<b>11,680</b>	<b>8,083</b>	<b>6,128</b>	<b>11.37</b>
<b>Total Probable Reserves .....</b>	<b>32,903</b>	<b>7,893</b>	<b>2,758</b>	<b>1,309</b>	<b>755</b>	<b>5.12</b>
<b>Total Proved Plus Probable Reserves<sup>(2)</sup> .....</b>	<b>73,384</b>	<b>27,412</b>	<b>14,438</b>	<b>9,392</b>	<b>6,883</b>	<b>9.22</b>

### Notes:

- (1) Unit values have been calculated using MEG's net reserves after deducting royalties.
- (2) Totals may not add due to rounding.

Reserves Category	Net Present Value of Future Net Revenue as of December 31, 2020 After Income Taxes (Forecast Prices and Costs) (Discounted at %/Year)				
	0%	5%	10%	15%	20%
	(MM\$)	(MM\$)	(MM\$)	(MM\$)	(MM\$)
<b>Proved Reserves</b>					
Proved Developed Producing .....	8,293	6,930	5,869	5,046	4,402
Proved Developed Non-Producing .....	193	127	86	60	43
Proved Undeveloped .....	24,034	9,184	4,114	2,076	1,132
<b>Total Proved Reserves .....</b>	<b>32,519</b>	<b>16,241</b>	<b>10,069</b>	<b>7,182</b>	<b>5,577</b>
<b>Total Probable Reserves .....</b>	<b>25,241</b>	<b>6,027</b>	<b>2,095</b>	<b>992</b>	<b>572</b>
<b>Total Proved Plus Probable Reserves<sup>(1)</sup> .....</b>	<b>57,761</b>	<b>22,268</b>	<b>12,164</b>	<b>8,174</b>	<b>6,149</b>

### Note:

- (1) Totals may not add due to rounding.

						Future Net Revenue (undiscounted) as of December 31, 2020 (Forecast Prices and Costs)		
Reserves Category	Revenue (MM\$)	Royalties (MM\$)	Operating Costs (MM\$)	Development Costs (MM\$)	Aband. and Reclam. Costs <sup>(1)</sup> (MM\$)	Future Net Revenue Before Income Taxes (MM\$)	Income Taxes (MM\$)	Future Net Revenue After Income Taxes (MM\$)
<b>Proved Reserves</b>								
Proved Developed Producing .....	15,877	2,521	3,385	639	541	8,791	498	8,293
Proved Developed Non-Producing..	462	102	89	17	7	246	54	193
Proved Undeveloped .....	79,037	17,339	14,797	13,016	2,441	31,443	7,409	24,034
<b>Total Proved Reserves<sup>(2)</sup></b> .....	<b>95,375</b>	<b>19,961</b>	<b>18,271</b>	<b>13,673</b>	<b>2,990</b>	<b>40,480</b>	<b>7,961</b>	<b>32,519</b>
<b>Total Probable Reserves</b> .....	<b>73,972</b>	<b>18,704</b>	<b>11,508</b>	<b>9,200</b>	<b>1,657</b>	<b>32,903</b>	<b>7,662</b>	<b>25,241</b>
<b>Total Proved Plus Probable Reserves<sup>(2)</sup></b> .....	<b>169,347</b>	<b>38,665</b>	<b>29,779</b>	<b>22,873</b>	<b>4,647</b>	<b>73,384</b>	<b>15,623</b>	<b>57,761</b>

**Notes:**

- (1) Total abandonment and reclamation costs included for Christina Lake Project processing facility, infrastructure, SAGD and observation wells, both known and existing, and to be incurred as a result of future development activity.
- (2) Totals may not add due to rounding.

Future Net Revenue By Production Group as of December 31, 2020 (Forecast Prices and Costs)			
Reserves Category	Production Group	MM\$	Unit Value <sup>(1)</sup> (\$/bbl)
<b>Total Proved Producing Reserves</b> .....	Bitumen	6,093	25.50
<b>Total Proved Reserves</b> .....	Bitumen	11,680	11.37
<b>Total Proved Plus Probable Reserves</b> .....	Bitumen	14,438	9.22

**Note:**

- (1) Other revenue and costs not related to a specific production group have been allocated proportionately to the production groups. Unit values have been calculated using MEG's net reserves after deducting royalties.

## Reconciliation of Reserves by Principal Product Type (Forecast Prices and Costs)

The following table sets forth a reconciliation of the changes to MEG's working interest, before royalties, of bitumen reserves as of December 31, 2020 against such reserves as of December 31, 2019 based on the forecast price and cost assumptions set forth in Note 1 of the table.

Total Bitumen Reserves <sup>(1)</sup>			
	Gross Proved (Mbbls)	Gross Probable (Mbbls)	Gross Proved Plus Probable (Mbbls)
<b>December 31, 2019</b>	<b>1,339,145</b>	<b>731,280</b>	<b>2,070,425</b>
Discoveries .....	-	-	-
Extensions and Improved Recovery .....	-	-	-
Technical Revisions .....	(9,475)	3,897	(5,578)
Acquisitions .....	-	-	-
Dispositions .....	-	-	-
Economic Factors .....	-	-	-
Production .....	(30,168)	-	(30,168)
<b>December 31, 2020</b>	<b>1,299,502</b>	<b>735,177</b>	<b>2,034,679</b>

**Note:**

- (1) The pricing assumptions used in the GLJ Report with respect to values of future net revenue as well as the inflation rates used for operating and capital costs are set forth below under "GLJ Price Forecast".

## GLJ Price Forecast

The price forecasts that formed the basis for the revenue projections and net present value estimates in the GLJ Report were based on GLJ's January 1, 2021 pricing models. A summary of selected price forecasts used in arriving at pricing forecasts is set forth below.

### Forecast Prices used in Preparing Reserves Data GLJ (January 1, 2021)

Forecast	Oil Sands Inflation (%)	Exchange Rate (US\$/Cdn\$)	West Texas Intermediate Crude Oil at Cushing Oklahoma Current (US\$/bbl)	AECO/NIT Spot Current (Cdn\$/MMBtu)	WCS Crude Oil Stream Quality at Hardisty Current (Cdn\$/bbl)	Diluent Edmonton Pentanes Plus (Cdn\$/bbl)	Heavy Crude Oil (12 API) at Hardisty (Cdn\$/bbl)	Light Crude Oil (35 API, 1.2% S) at Cromer (Cdn\$/bbl)	Medium Crude Oil (29 API, 2.0% S) at Cromer (Cdn\$/bbl)
2021	0.0	0.78	48.00	2.72	45.16	60.65	39.52	54.93	53.82
2022	2.0	0.77	51.50	2.67	49.67	65.36	43.97	60.18	58.96
2023	2.0	0.76	54.50	2.60	53.95	70.07	48.11	63.18	61.90
2024	2.0	0.76	57.79	2.60	57.92	74.72	51.88	67.46	66.10
2025	2.0	0.76	58.95	2.65	59.09	76.25	52.94	68.97	67.58
2026	2.0	0.76	60.13	2.71	60.26	77.80	54.00	70.51	69.09
2027	2.0	0.76	61.33	2.76	61.47	79.38	55.10	72.07	70.62
2028	2.0	0.76	62.56	2.81	62.70	81.00	56.22	73.68	72.19
2029	2.0	0.76	63.81	2.87	63.96	82.64	57.35	75.31	73.78
2030	2.0	0.76	65.09	2.92	65.24	84.30	58.50	76.81	75.26
2031	2.0	0.76	66.39	2.98	66.54	85.98	59.67	78.35	76.76

The Corporation realized an average price of \$27.23/bbl of bitumen for the year ended December 31, 2020.

### Undeveloped Reserves

Through the GLJ Report, GLJ has assigned the Christina Lake property proved undeveloped reserves of 1,008 MMbbls and probable undeveloped reserves of 692 MMbbls. The Corporation's proved undeveloped reserves and probable undeveloped reserves are expected to be developed over time, with a majority of proved and probable undeveloped reserves expected to be developed beyond two years as wells and plant capacity become available, which is typical of SAGD oil sands developments. The Corporation continually reviews the economic ranking of these undeveloped reserves within the Corporation's overall portfolio of development projects. See "Projects Overview – Christina Lake Project".

Probable undeveloped oil and gas reserves are those reserves that are less certain to be recovered than proved reserves and are expected to be recovered from known accumulations where a significant expenditure is required to render them capable of production. Proved and probable undeveloped reserves have been estimated by GLJ in accordance with procedures and standards contained in the COGE Handbook. Recognition of probable reserves requires sufficient drilling of stratigraphic wells to establish reservoir suitability for SAGD.

The following tables set out the volumes of gross proved undeveloped reserves of bitumen and gross probable undeveloped reserves of bitumen first attributed for each of the Corporation's most recent three financial years and in the aggregate before that time using forecast prices and costs.

## Proved Undeveloped Bitumen Reserves

Period	First Attributed (MMbbls)	Total at Year-end (MMbbls)
December 31, 2018.....	-	1,094
December 31, 2019.....	-	1,051
December 31, 2020.....	-	1,008

## Probable Undeveloped Bitumen Reserves

Period	First Attributed (MMbbls)	Total at Year-end (MMbbls)
December 31, 2018.....	-	1,409
December 31, 2019.....	-	693
December 31, 2020.....	-	692

## Reserves Life Index

The following Reserves Life Index values were calculated using the relevant reserves volumes by category estimated by GLI divided by the Corporation's current production of approximately 90,000bbls/d:

Reserves Category	Bitumen (MMbbls)	RLI (years)
Proved Developed Producing (PDP).....	283.7	8.6
Total Proved (1P).....	1,299.5	39.6
Total Proved plus Probable (2P).....	2,034.7	61.9

## Significant Factors or Uncertainties

The Corporation does not anticipate that any significant economic factors or significant uncertainties would affect particular components of its reported reserves. However, a number of factors which are beyond the Corporation's control can significantly affect the reserves, including global product pricing, royalty and tax regimes, changes in operating and capital costs, surface access issues, weather, receipt of regulatory approvals, availability of services and processing facilities and technical issues affecting well performance. See "Risk Factors".

## Future Development Costs

The following table sets forth the development costs associated with the proved reserves and proved plus probable reserves which were deducted in the estimation of future net revenue attributable to each of the reserves categories contained in the GLJ Report. Future development costs are anticipated to be funded as described under "Projects Overview".

	Total Proved Future Development Costs Using Forecast Escalated Costs (MM\$)	Total Proved Plus Probable Future Development Costs Using Escalated Dollars Costs (MM\$)
2021 .....	232	232
2022 .....	277	283
2023 .....	237	240
2024 .....	125	147
2025 .....	147	211
2026 .....	323	388
2027 .....	233	743
2028 .....	218	251
2029 .....	414	291
2030 .....	130	463
2031 .....	452	297
2032 .....	310	348
Remainder .....	10,576	18,978
<b>Total, undiscounted</b>	<b>13,673</b>	<b>22,873</b>

## OTHER OIL AND GAS INFORMATION

### OIL AND GAS PROPERTIES AND WELLS

The following table sets out the Corporation's producing and non-producing bitumen production wells as of December 31, 2020, all of which are in Alberta, Canada:

	Bitumen Production Wells as of December 31, 2020	
	Gross	Net
<b>Christina Lake</b>		
Producing SAGD Well Pairs .....	191	191
Non-producing SAGD Well Pairs .....	31	31
Producing Infill Wells .....	90	90
Non-producing Infill Wells .....	33	33
<b>Total</b>	<b>345</b>	<b>345</b>

**Note:**

(1) All producing and non-producing SAGD wells and Infill Wells shown in this table are located at Phases 1, 2 and 2B of the Christina Lake Project.

MEG has also drilled a total of 861 stratigraphic test wells, 311 observation wells, 18 water source wells, and five water disposal wells on or adjacent to its mineral leases. These wells did not produce any bitumen volumes in 2020.

The following table sets out the Corporation's producing and non-producing gas wells, all of which are in Alberta, as of December 31, 2020:

### Gas Production Wells as of December 31, 2020

	Gas Production Wells as of December 31, 2020	
	Gross	Net
Producing .....	-	-
Non-producing .....	109	97.5
<b>Total</b>	<b>109</b>	<b>97.5</b>

### PROPERTIES WITH NO ATTRIBUTED RESERVES

The following table sets out the Corporation's properties to which no reserves had been assigned as of December 31, 2020. All properties are located in Alberta and although no underlying leases are expected to expire in the next year, the Corporation may determine to release select leases in the May River and Growth Properties areas as part of its continuing lease rationalization program.

### Mineral Leases without Attributed Reserves

	Undeveloped Acreage (acres)	
	Gross	Net
Mineral leases without attributed reserves .....	284,897	284,897

### ADDITIONAL INFORMATION CONCERNING ABANDONMENT AND RECLAMATION COSTS

The Corporation follows IFRS to account for and report the estimated cost of future site abandonment and reclamation. This standard requires liability recognition for retirement obligations associated with long-lived assets, which would include abandonment of wells and related facilities, natural gas wells and related facilities, removal of equipment from leased acreage and returning such land to a condition equivalent to its original condition. Under the standard, the estimated cost of each decommissioning obligation is recorded in the period a well or related asset is drilled, constructed or acquired. The obligation is estimated using the present value of the estimated future cash outflows to abandon the asset at the Corporation's credit-adjusted risk-free rate. The obligation is reviewed regularly by management based upon current regulations, costs, technologies and industry standards. The discounted obligation is recognized as a liability and is accreted against income until it is settled or the property is sold and is included as a component of net finance expense. Actual restoration expenditures are charged to the accumulated obligation as incurred.

As of December 31, 2020, the estimated total undiscounted amount required to settle the decommissioning obligations in respect of all the Corporation's facilities and wells, net of estimated salvage recoveries, was \$801 million. This obligation is estimated to be settled in periods up to 2066. The 11.7% discounted present value of this amount is \$96 million (\$115 million discounted at 10%). Over the next three years, the Corporation expects to incur approximately \$13 million in decommissioning expenditures.

In the GLJ Report, abandonment and reclamation costs for total proved plus probable reserves were estimated to be \$4.6 billion, undiscounted, and \$232 million, discounted at 10%. These costs include the abandonment, decommissioning and reclamation of the Christina Lake central processing facility, infrastructure, currently drilled SAGD and observation wells plus the future well pairs, infills and observation wells anticipated to be required to develop the assigned reserves over the life of the Christina Lake Project. These estimates do not include abandonment and reclamation costs or other liabilities outside of the Christina Lake Project, which the Corporation has included in determining its total decommissioning provision.



## TAX HORIZON

As of December 31, 2020, the Corporation had approximately \$7.3 billion of available tax pools and had recognized a deferred income tax asset of \$373 million. In addition, as of December 31, 2020, the Corporation had \$111 million of capital investment in respect of incomplete projects which will increase available tax pools upon completion of the projects. Based on anticipated capital spending, which augments the tax pools, the Corporation does not expect to pay Canadian income taxes during the next five years. This estimate will be impacted by, among other factors, construction costs, commodity prices, foreign exchange rates, operating costs, interest rates and the Corporation's other business activities. Changes in these factors from estimates used by the Corporation could result in the Corporation paying income taxes earlier than expected.

## OIL SANDS ROYALTY PAYOUT HORIZON

As of December 31, 2020, Christina Lake Oil Sands Royalty Project cumulative costs exceed cumulative revenues by approximately \$2.7 billion. As such, the Christina Lake Project is currently subject to pre-payout royalty rates. In the context of the current oil price environment, the Corporation anticipates the Christina Lake Project to achieve payout within the next four to six years. This estimate will be impacted by, among other factors, bitumen production, capital costs, commodity prices, foreign exchange rates, operating costs, the corporate development plan and changes to government policy. Changes in these factors from estimates used by the Corporation could result in the Corporation paying post-payout royalty rates earlier or later than expected.

## COSTS INCURRED

The Corporation did not acquire any property with reserves or resources in the year ended December 31, 2020. The capital expenditures made by MEG on its properties for the year ended December 31, 2020 were \$149 million.

## EXPLORATION AND DEVELOPMENT ACTIVITIES

MEG conducted a series of drilling programs on its mineral leases in 2020. The following table sets forth the number of exploratory and development wells which MEG completed during the year ended December 31, 2020:

### Exploration and Development Activities

	2020 Wells (Gross & Net)
Exploration Wells .....	-
Stratigraphic Test Wells .....	15
SAGD Wells.....	2
Observation Wells .....	3
Infill Wells.....	11
Water Source Wells.....	-
Water Disposal Wells .....	-
<b>Total Completed Wells<sup>(1)</sup></b>	<b>31</b>

**Note:**

(1) The Corporation has a 100% working interest in all wells drilled.

See "Projects Overview" for a description of the Corporation's most important current and likely exploration and development activities.

## PRODUCTION ESTIMATES

The following table sets forth the estimated volume of net working interest production of gross proved reserves and gross probable reserves in 2021, before royalties, as set out in the GLJ Report.

## Production Estimates

	Bitumen Production (bbls/d) <sup>(1)</sup>
<b>Reserves</b>	
Total Proved Reserves.....	91,391
Total Probable Reserves.....	53
<b>Total Proved Plus Probable Reserves .....</b>	<b>91,444</b>

### Notes:

- (1) The Corporation has a 100% working interest.  
 (2) All estimated production is associated with Phases 1, 2 and 2B of the Christina Lake Project. The values above are based on estimated annual production over 365 days using an average estimated facility runtime of 95%.

## PRODUCTION HISTORY

The following table sets forth certain non-audited information in respect of production at Phases 1, 2 and 2B of the Christina Lake Project, product prices, royalties, operating and transportation costs and netbacks on a per barrel basis received for each quarter of MEG's most recently completed financial year:

	Production History			
	Three months ended March 31, 2020	Three months ended June 30, 2020	Three months ended September 30, 2020	Three months ended December 31, 2020
Average Daily Production.....	91,557	75,687	71,516	91,030
Bitumen (bbls/d)				
Bitumen Realization .....	19.45	10.18	39.68	38.64
Bitumen (\$/bbl)				
Royalties .....	(0.63)	(0.05)	(0.21)	(0.23)
Bitumen (\$/bbl)				
Net Operating Costs <sup>(1)</sup> .....	(5.51)	(6.14)	(6.05)	(6.98)
Bitumen (\$/bbl)				
Transportation <sup>(2)</sup> .....	(8.63)	(11.77)	(18.55)	(14.11)
Bitumen (\$/bbl)				
Realized gain (loss) on commodity risk management.....	11.97	33.62	1.71	1.31
Third-party curtailment credits <sup>(3)</sup> ...	0.18	-	-	0.03
Cash Operating Netback <sup>(4)</sup> .....	16.83	25.84	16.58	18.66
Bitumen (\$/bbl)				

### Notes:

- (1) Net Operating Costs include energy and non-energy operating costs, reduced by power revenue.  
 (2) Transportation and storage includes costs associated with moving the Corporation's blend from Christina Lake to a final sales location and optimizing the timing of delivery, net of third-party recoveries on diluent transportation arrangements.  
 (3) The Corporation can purchase or sell production curtailment credits to either increase its production, or sell excess production capacity, compared to its provincially-mandated curtailment level.  
 (4) Cash operating netback on a per-unit basis is calculated by dividing related production revenue, less costs and royalties, by bitumen sales volumes. Cash operating netback is a non-GAAP measure widely used in the oil and gas industry as a supplementary measure of efficiency and ability to fund future capital expenditures. This measure has been described and presented in this Annual Information Form in order to provide shareholders and potential investors with additional information regarding MEG's liquidity and its ability to generate funds to finance its operations, and to comply with the requirements of NI 51-101. It does not have a standardized meaning prescribed by IFRS and therefore may not be comparable to similar measures used by other companies and should not be considered in isolation or as an alternative to other measures of performance prepared in accordance with IFRS. Refer to the "NON-GAAP MEASURES" section of the Corporation's 2020 Annual MD&A.

The Corporation's average production for the year ended December 31, 2020 from Phases 1, 2 and 2B of the Christina Lake Project was 82,441 bbls/d.

## REGULATORY MATTERS

The oil and gas industry is subject to extensive controls and regulations. In Alberta, provincial legislation and regulations govern land tenure, royalties, production practices and rates, environmental protection, the prevention of waste and other matters. Federal legislation and regulations may also apply. Although it is not expected that any of these controls and regulations will affect the operations of the Corporation in a manner materially different than they would affect other oil and natural gas producers of similar size, the controls and regulations should be considered carefully by investors in the oil and natural gas industry. The regulatory scheme as it relates to oil sands thermal production is somewhat different from that related to oil and gas generally. Outlined below are some of the more significant aspects of the legislation and regulations governing the recovery and marketing of bitumen from oil sands. All current legislation is a matter of public record and the Corporation is unable to predict with certainty what additional legislation or amendments may be enacted.

### REGULATORY FRAMEWORK

The Alberta Department of Energy is responsible for administering the legislation that governs the ownership, royalty and administration of Alberta's oil, gas, oil sands, coal, metallic and other mineral resources. Prior to June 17, 2013, energy resource activities in Alberta were primarily regulated by the ERCB and ESRD. On December 10, 2012, the Government of Alberta enacted the *Responsible Energy Development Act* ("REDA").

REDA was designed to come into effect in three phases. On June 17, 2013 the first phase of REDA commenced with the establishment of the Alberta Energy Regulator ("AER") and the repealing of the *Energy Resources Conservation Act*. As a result, the ERCB was dissolved and the AER assumed all of the ERCB's responsibilities under energy resource legislation, including the *Oil Sands Conservation Act*. The second phase was completed on November 30, 2013, when the AER assumed the ESRD's responsibilities in relation to energy resource activities under the *Public Lands Act* and Part 8 of the *Mines and Minerals Act*. The third phase was completed on March 29, 2014 when the AER announced that it had assumed jurisdiction over energy resource activities formerly under the jurisdiction of the ESRD. Included in the third phase was the transfer of the ESRD's responsibilities in relation to energy resources activities under the *Environmental Protection and Enhancement Act* and the *Water Act*.

The AER is now Alberta's single energy regulator, responsible for full life-cycle regulation of oil, gas, oil sands and coal resources in Alberta. The AER is responsible for applications, exploration, construction, development, abandonment, reclamation and remediation. The changes in Alberta's regulatory framework were undertaken by the Government of Alberta with the stated goal of creating a regulatory system that delivers clarity, predictability, certainty and efficiency. Despite the changes, the regulatory regime for oil sands is essentially unchanged following REDA. The most significant difference is that oversight and administration are now carried out by a single regulatory body. However, the AER has not assumed control over the activities of the Alberta Utilities Commission ("AUC"). As a result, electrical facilities associated with oil sands projects, including cogeneration facilities, remain regulated by the AUC. The Alberta Electric System Operator remains responsible for regulating access to the Alberta electricity grid and electricity market.

### REGULATION OF OPERATIONS

In Alberta, regulation of the construction, operation, decommissioning, and reclamation of oil sands recovery, pipeline, and upgrader projects is undertaken by the AER under various statutes, including the REDA, *Oil Sands Conservation Act*, *Environmental Protection and Enhancement Act*, *Water Act*, *Public Lands Act*, *Pipeline Act* and others. For example, AER approvals are required prior to the construction and operation of oil sands recovery, pipeline and upgrader projects, and the legislation allows the AER to inspect and investigate operations. Inspection and investigations by provincial regulators may result, among other things, in remedial orders.

Additionally, the construction, operation, decommissioning and reclamation of oil sands recovery, pipeline and upgrader projects, and associated electrical facilities, may be subject to regulation by the Government of Canada under various federal statutes and regulations, which may include the *Impact Assessment Act*, the *Canadian Environmental Protection Act, 1999* ("CEPA"), the *Fisheries Act*, the *Canadian Navigable Waters Act*, the *Species at Risk Act* and where applicable, the *Canadian Energy Regulator Act*. Certain federal approvals or authorizations may be needed prior to construction, operation or

modification of facilities. Inspections and investigations by federal regulators may result in, among other things, remedial orders.

In 2016, the Government of Canada commenced a review of federal environmental and regulatory processes under various acts. Bill C-69: *An Act to enact the Impact Assessment Act and the Canadian Energy Regulator Act, to amend the Navigation Protection Act [renamed the Canadian Navigable Water Act] and to make consequential amendments to other Acts* came into force in August 2019. In addition, Bill C-68, which amended the *Fisheries Act*, came into force at the same time. The enactment of Bill C-69 and Bill C-68 into legislation has, among other things, resulted in a broader assessment of impacts caused by certain federally regulated projects, increased opportunities for public participation and increased Indigenous participation throughout all phases of the federal impact assessment process, including a new early planning phase. The *Impact Assessment Act* only requires federal impact assessments for certain designated projects. The list of designated projects under the *Impact Assessment Act*, exempts *in situ* oil sands projects as designated projects where such projects are located within a province where provincial legislation is in force to limit the amount of greenhouse gas emissions produced by oil sands sites and that limit has not been reached. In Alberta, the *Oil Sands Emissions Limit Act* came into force in December 2016 and limits the amount of greenhouse gas emissions produced by all oil sands sites combined in Alberta to 100 megatonnes in any year, which limit has not been reached.

## PRICING AND MARKETING – CRUDE OIL, BITUMEN AND BITUMEN BLEND

In Canada, producers of crude oil, bitumen and bitumen blend negotiate sales contracts directly with oil purchasers, with the result that the market determines the price of such commodities. The price received by the Corporation depends in part on product quality, prices of competing fuels, distance to market, the value of refined products, the supply/demand balance and other contractual terms.

Subject to certain exemptions, exports from Canada must be made pursuant to short-term export orders or long-term licences obtained from the Canada Energy Regulator ("CER"). An export order for light crude oil, defined to include blended oils with a density less than 875.7 kg/m<sup>3</sup>, may be granted for up to one year. An export order for heavy crude oil, defined to include blended oils with a density greater than 875.7 kg/m<sup>3</sup>, may be granted for a period not exceeding two years. If a longer term for export approval is required, an export licence must be obtained from the CER, which must hold a public hearing prior to granting an export licence. Licences for the export of light or heavy crude oil may be granted for a period not exceeding 25 years and require the approval of the Governor in Council.

### ***Curtailment Rules***

On December 3, 2018 the Government of Alberta enacted rules to enable a temporary curtailment of crude oil and bitumen production (the "Curtailment Rules"). The Curtailment Rules came into force on January 1, 2019 and remain in place until December 31, 2021. The Curtailment Rules give the province the authority to make an order to set the maximum combined provincial production amount of crude oil and bitumen on a monthly basis. The intent of the production limits is to align production with export capacity, protecting the value of the province's oil by helping prevent Canadian crude from selling at large discounts. Production limits were in place from January 2019 through November 2020. Although the Curtailment Rules remain in effect, production limits were suspended beginning in December 2020 and companies are now allowed to produce at their discretion.

On October 31, 2019 the Government of Alberta Special Production Allowance (SPA) program was enacted to give crude oil and bitumen producers temporary curtailment relief equal to incremental increases in rail shipments. On a monthly basis, operators can apply to increase oil production if additional product is moved by new rail capacity out of the province. This program came into force on December 1, 2019 and remains in effect concurrent with the Curtailment Rules. The Corporation benefited from utilization of the SPA program during portions of 2020 and is positioned to do so again should production limits be re-introduced.

### ***Canada-United States-Mexico Agreement***

On July 1, 2020, the Canada-United States-Mexico Agreement (CUSMA) entered into force, replacing the North American Free Trade Agreement (NAFTA). According to a Government of Canada technical summary of negotiated outcomes related

to the energy sector, under CUSMA, the rule of origin applicable to heavy oil containing diluent has been relaxed to allow up to 40% of non-originating diluent that is added for the purpose of transportation in pipelines without affecting the originating status of the product, which will allow Canadian products to more easily qualify for duty-free treatment when imported into the U.S.

The investor-state dispute settlement provisions will no longer be available to protect future investments of Canadians in the U.S. or U.S. investments in Canada. For three years after the termination of NAFTA, existing "legacy investments" will maintain their access to the investor-state dispute settlement under NAFTA Chapter 11.

## PRICING AND MARKETING – NATURAL GAS LIQUIDS

In Canada, the price of condensate and other natural gas liquids ("NGLs") sold in intraprovincial, interprovincial and international trade is determined by negotiation between buyers and sellers. Such price depends, in part, on the origin and quality of the NGLs, prices of competing product, distance to market, access to downstream transportation, length of contract term, the supply/demand balance and other contractual terms.

Subject to certain exemptions, exports of NGLs from Canada must be made pursuant to short-term export orders or long-term licences obtained from the CER. For example, an export order in respect of propane or butanes may be granted for up to one year and up to two years for ethane. Licences for the export of NGLs may be granted for a period not exceeding 25 years and require the approval of the Governor in Council.

## LAND TENURE

The oil sands mineral rights in approximately 97% of Alberta's estimated 142,200 square kilometers (54,904 square miles) of oil sands areas are owned by the provincial Crown and managed by the Alberta Department of Energy. The remaining approximately 3% of oil sands mineral rights are held "freehold" by individuals and companies, or by the federal Crown, for example in Indian reserves and national parks.

Oil produced from oil sands owned by the Province of Alberta is produced under provincial Crown thermal oil production leases. The new *Oil Sands Tenure Regulation, 2020* came into force on December 1, 2020 and repeals the *Oil Sands Tenure Regulation, 2010*. The new regulations apply to all leases issued on or after December 1, 2020, to all permits issued under the 2010 Regulation, and those continued or discontinued from the 2010 or the previous 2000 Regulations. The new regulations no longer require a minimum level of evaluation for the continuance of a lease, but the Minister of Energy may establish a minimum level of production.

Primary leases are issued for a 15-year term, and applications for continuation may be made during the last year of the term of the lease or at any time during the lease with the consent of the Minister of Energy. For the continuation of a primary lease, the lessee shall provide all production data in those sections to the Minister. If a lease is designated as "producing", it will continue for its productive life and will not be subject to escalating rentals. A lease designated as "non-producing" can be continued by payment of escalating rentals. An escalating rental is calculated based on the area of the lease location. An exception to the expiration of a lease is when producing wells are on multiple drilling spacing units or leases, the eligible leases are continued.

## ROYALTIES

For crude oil, natural gas and related production, the royalty regime is a significant factor in the profitability of production operations. Royalties payable on production from lands other than Crown lands are determined by negotiations between the mineral owner and the lessee, although production from such lands is subject to certain provincial taxes and royalties. Crown royalties are determined by governmental regulation and are generally calculated as a percentage of the value of the gross production. The rate of royalties payable generally depends in part on well productivity, geographical location, field discovery date and commodity prices. The Corporation's bitumen leases are all situated on Crown lands.

From time to time, the provincial governments have established incentive programs for exploration and development. Such programs often provide for royalty reductions, credits and holidays, 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.

The oil sands royalty framework under the *Oil Sands Royalty Regulation, 2009*, establishes royalty rates for bitumen that are linked to price. The Alberta oil sands royalty payable is based on these price-sensitive royalty rates and applied to production volumes. The applicable royalty rates change depending on whether the project's status is pre-payout or post-payout. "Payout" is generally defined as the point in time when a project has generated enough net revenue to recover its costs and provide a designated return allowance. When a project reaches payout, its cumulative revenue equals or exceeds its cumulative costs. Costs include specified allowed capital and operating costs pursuant to the *Oil Sands Allowed Costs (Ministerial) Regulation*. The royalty payable for pre-payout projects is based on the project's gross revenue multiplied by a gross revenue royalty rate. The gross revenue royalty rate starts at 1% and increases for every dollar that the world oil price, as reflected by the WTI crude oil price in Canadian dollars, is priced above \$55 per barrel, to a maximum of 9% when the WTI crude oil price is \$120 per barrel or higher. The royalty payable for post-payout projects is the greater of (i) the gross revenue royalty; or (ii) the net revenue royalty based on the net revenue royalty rate. The net revenue royalty rate is based on a formula which starts at 25% and increases for every dollar the WTI crude oil price is above \$55 per barrel to a maximum of 40% when the WTI crude oil price is \$120 per barrel or higher.

As the resource owner, the Government of Alberta is entitled to take its royalty share of bitumen production in-kind, as it does currently for conventional oil production. The Government of Alberta has committed to have a portion of its bitumen royalty in-kind volumes commercially upgraded to higher value products in the province.

## ENVIRONMENTAL REGULATION

Oil sands recovery, pipelines and upgrader projects, and associated electrical facilities, are subject to provincial and federal environmental laws and regulations. Environmental laws and regulations require various approvals and provide for restrictions and prohibitions on releases or emissions of various substances produced or used in association with such projects. In addition, environmental laws and regulations require that facilities and operating sites be abandoned and reclaimed to the satisfaction of provincial or federal authorities. Compliance with such legislation can require significant expenditures. A breach of such legislation may, among other things, result in the imposition of material fines and penalties, the revocation of necessary licences and authorizations, and civil liability for pollution damage.

Water usage by *in situ* oil sands projects, including restrictions on amounts and type of water used, is regulated by the AER. In general, regulatory requirements maximize recycling of water and minimize use of fresh (non-saline) water.

The Corporation may be affected by Alberta's frameworks for air quality, surface water quality and groundwater, under which parties may be required to comply with environmental limits and participate in regional monitoring. These frameworks are being created under the *Alberta Land Stewardship Act* ("ALSA") as legislative instruments equivalent to regulations and is binding on the Government of Alberta and provincial regulators, including those governing the oil and gas industry. The first of seven of these frameworks, the Lower Athabasca Regional Plan ("LARP") came into effect on September 1, 2012 and is currently in the implementation stage. In addition, the South Saskatchewan Regional Plan was approved by the Government of Alberta in 2014, while other regional plans are at various stages of development, including the (i) North Saskatchewan Regional Plan; and (ii) South Saskatchewan Regional Plan.

Future and existing operations in the region may be subject to more onerous environmental constraints and stringent operating parameters. While the LARP and South Saskatchewan Regional Plan have not had a significant effect on the Corporation, there can be no assurance that changes to the regional plans or that future laws or regulations will not adversely impact the Corporation's ability to develop or operate its projects.

On February 3, 2012, the Government of Alberta and the Government of Canada released the Joint Canada-Alberta Implementation Plan for Oil Sands Monitoring ("Monitoring Plan"). In December 2017, the two governments signed a renewed Memorandum of Understanding for the Monitoring Plan, and a subsequent Letter of Agreement in September 2018 with Indigenous communities. The Oil Sands Monitoring Program is designed to provide an improved understanding of the long-term cumulative environmental effects of oil sands development. Under the Monitoring Plan, the federal and provincial governments increased air, water, land and biodiversity monitoring in the oil sands region. Funding for the monitoring



program is collected from industry through the *Oil Sands Environmental Monitoring Program Regulation* to an aggregate amount of up to \$50 million a year.

The federal *Species at Risk Act* and provincial *Wildlife Act* regulate threatened and endangered species and may limit the pace and amount of development in areas identified as critical habitat for species of concern such as Woodland Caribou. In Alberta, the Alberta Caribou Action and Range Planning Project has been established to develop action and range plans for sustaining Alberta's caribou populations. Alberta's Draft Provincial Woodland Caribou Range Plan was released in December 2017, but has not yet been finalized. The federal and/or provincial implementation of measures to protect species at risk such as Woodland Caribou and their critical habitat in areas of the Corporation's current or future operations may limit the Corporation's pace and amount of development in affected areas.

The operations of the Corporation are, and will continue to be, affected in varying degrees by laws and regulations regarding environmental protection. It is impossible to predict the full impact of these laws and regulations on the Corporation's operations. However, it is not anticipated that the Corporation's competitive position will be adversely affected by current or future environmental laws and regulations governing its current oil sands operations. The Corporation is committed to meeting its responsibilities to protect the environment wherever it operates and anticipates making increased expenditures of both a capital and expense nature as a result of increasingly stringent laws relating to environmental protection. The Corporation also believes that it is likely that the trend in environmental legislation and regulation will continue toward stricter standards.

## GREENHOUSE GASES AND INDUSTRIAL AIR POLLUTANTS

### ***Climate Change Regulation***

Internationally, Canada is a signatory to the United Nations Framework Convention on Climate Change ("UNFCCC"). In December 2015, UNFCCC members agreed to a new climate agreement called the "Paris Agreement". Under the Paris Agreement, Canada reports and monitors its GHG emissions. Signatory countries agreed to meet every five years to review their individual progress on GHG emissions reductions and consider amendments to their targets. Generally, the Paris Agreement includes the goal of "holding the increase in the global average temperature to well below 2°C above pre-industrial levels and pursuing efforts to limit the temperature increase to 1.5°C." However, individual country targets designed to reach these levels are not legally binding. Please see "Government of Canada Regulations" for further information.

Additionally, the Paris Agreement contemplates that, by 2020, the parties will develop a new market-based mechanism related to carbon trading. It is expected that this mechanism will largely be based on the best practices and lessons learned from the Kyoto Protocol. No such market-based mechanism has been developed to date. Canada ratified the Paris Agreement in October 2016.

In 2020, MEG's Board of Directors committed to supporting the Paris Agreement and approved the Corporation's long-term goal of reaching net zero emissions (Scope 1 and Scope 2) by 2050.

### ***Government of Canada Regulations***

On May 15, 2015, the federal government announced its plan to reduce GHG emissions by 30% below Canada's 2005 levels by 2030 (referred to as the Nationally Determined Contribution). Canada's previous GHG emission reduction target under the Copenhagen Accord was to reduce GHG emissions to 17% below 2005 levels by 2020. Canada formally submitted the Nationally Determined Contribution to the UNFCCC.

On December 9, 2016, the Canadian federal government adopted the Pan Canadian Framework on Clean Growth and Climate Change (the "Framework") in response to the Paris Agreement. Under the Framework, the federal government introduced a carbon pricing program that includes, at a minimum, a floor price on carbon emissions of \$10 per tonne in 2018, rising by \$10 per tonne each year to \$50 per tonne in 2022. The Framework allows provinces to implement either a carbon tax or use a broad market-based mechanism and includes a federal backstop in the event jurisdictions do not meet the floor carbon price. In December 2020, the federal government proposed increasing the price on carbon to \$170 per tonne by 2030. To reach that level, the price imposed on carbon will rise from the 2022 rate of \$50 per tonne by \$15 per tonne each year.

The federal *Greenhouse Gas Pollution Pricing Act* ("GGPPA"), came into force on June 21, 2018 and includes two key parts: (i) a fuel charge ("Part 1"); and (ii) an output-based pricing system for industrial facilities ("Part 2"). The GGPPA applies, in whole or in part, in provinces that voluntarily adopt the federal standard or that do not have a carbon pricing system in place that meets the federal standard by January 1, 2019. The Government of Alberta challenged the constitutionality of the federal carbon emission pricing system, and the Alberta Court of Appeal found the federal system to be unconstitutional. Appeals of this decision, along with appellate court decisions in both Ontario and Saskatchewan, which found the federal system to be constitutional, were heard by the Supreme Court of Canada ("SCC") in September 2020; however, as of January 31, 2021, the SCC's decision has not yet been issued. As of January 31, 2021, the federal backstop applies to the following provinces who do not meet the federal threshold: Alberta, Manitoba, New Brunswick, Ontario and Saskatchewan.

On December 6, 2019 the federal government confirmed that Alberta's approach to carbon pricing under the *Technology Innovation and Emissions Reduction Regulation* ("TIER Regulation") is equivalent to the federal standard and as a result Part 2 of the GGPPA does not apply in Alberta. This confirmation was further extended into 2021 on January 14, 2021 by the federal government upon acceptance of the equivalency of the GGPPA to the TIER Regulation after the province adjusted the fund credit price to match that of the GGPPA. The fuel charge under Part 1 of the GGPPA applies in Alberta as the Government of Alberta repealed the Alberta carbon levy under the *Climate Leadership Act*, however, the GGPPA includes provisions to exempt from the fuel charge under Part 1 of the GGPPA facilities subject to provincial regulations such as the TIER Regulation.

In December 2014, the federal government published *Canada's Action on Climate Change* declaring its intention to take action on climate change by reducing GHG emissions through a sector-by-sector regulatory approach to protect the environment and support economic prosperity. To date, Canada has implemented GHG reducing regulations for renewable fuels, transportation, and coal-fired electricity. Regulations for the oil and gas sector have been developed within the *Regulations Respecting Reduction in the Release of Methane and Certain Volatile Organic Compounds (Upstream Oil and Gas Sector)* under the CEPA in April 2018. Under the CEPA, federal rules do not apply if equivalent requirements are made under the provincial *Methane Emission Reduction Regulation* under the *Environmental Enhancement and Protection Act*. Alberta, British Columbia and Saskatchewan have such equivalency agreements in place.

### ***Government of Alberta Regulations***

On November 22, 2015, the former Government of Alberta announced the Climate Leadership Plan, which included four key strategies to address climate change: (i) the complete phase-out of coal-fired sources of electricity by 2030; (ii) an Alberta economy-wide carbon price on GHG emissions of \$30 per tonne; (iii) a cap on oil sands emissions to a province-wide total of 100 megatonnes per year (compared to current emissions of approximately 70 megatonnes per year), with certain exceptions for cogeneration and new upgrading capacity; and (iv) reducing methane emissions from oil and gas activities by 45% relative to 2012 levels by 2025.

The current Government of Alberta has repealed the carbon levy under the *Climate Leadership Act* and replaced the *Carbon Competitiveness Incentive Regulation* ("CCIR") with the TIER Regulation. The *Oil Sands Emissions Limit Act* came into force on December 14, 2016; however, it does not obligate oil sands producers until a regulatory system is designed and implemented under the regulations and as a result uncertainties exist for the industry and the Corporation with respect to the implementation of the 100 megatonnes per year province-wide limit on all oil sands emissions. The *Methane Emission Reduction Regulation* under the *Environmental Enhancement and Protection Act* came into force on January 1, 2020 and includes requirements to address the primary sources of methane emissions from Alberta's upstream oil and gas industry: fugitive emissions and venting.

In Alberta, the *Emissions Management and Climate Resilience Act* provides a framework for managing GHG emissions in the province. The accompanying regulations include the *Specified Gas Reporting Regulation* ("SGRR"), which imposes GHG emissions reporting requirements and the TIER Regulation, which came into force on January 1, 2020.

Various elements of the CCIR are included in the TIER Regulation, as the TIER Regulation remains an emissions intensity-based regime requiring large emitters to reduce their emissions intensity below a prescribed level, or otherwise achieve this through a true-up obligation whereby credits can be applied against such prescribed level, together with or as an alternative to physical abatement, with penalties for failure to achieve compliance. However, the TIER Regulation has fundamental differences with the CCIR as the TIER Regulation includes facility-specific benchmarks and high-performance benchmarks in contrast to the product specific benchmarks under the CCIR.

The TIER Regulation applies to facilities in Alberta that produce 100,000 or more tonnes of GHG emissions per year. A facility's allowable emissions is calculated based on the applicable benchmarks for the product it produces. In the case of *in situ* oil sands facilities, emissions reduction obligations are determined based on the less stringent of a facility-specific benchmark or high-performance benchmark. The facility-specific benchmark is 90% of the historical emissions intensity of the facility based on 2013 to 2015 emissions intensity. The stringency of a facility-specific benchmark will increase by 1% annually beginning in 2021 until this benchmark meets the high-performance benchmark, which is calculated as the average emissions intensity of the most emissions-efficient *in situ* oil sands facilities. A facility must ensure that its net emissions do not exceed the allowable emissions for the facility. The net emissions for a facility are calculated as the total regulated emissions ("TRE") minus the sum of any emission offsets, emission performance credits ("EPC") or fund credits. A facility is required to compare its TRE with its allowable emissions to determine the quantity of emission offsets, EPCs and/or fund credits required to meet the facility's "true up obligation", which is the amount by which a facility's TRE in a reporting period exceeds the facility's allowable emissions for such reporting period. As was the case under the CCIR, a facility can earn EPCs if its TRE is less than the facility's allowable emissions. EPCs may be banked for use in future compliance, transferred to another regulated facility or sold.

There are four compliance options for facilities that are subject to the TIER Regulation: (i) improve emissions intensity at the facility; (ii) purchase or use banked EPCs; (iii) purchase emission offsets in the open market, which are generated from Alberta based projects; and/or (iv) purchase fund credits by contributing to the Technology Innovation and Emissions Reduction Fund ("Fund") run by the Alberta government. The contribution costs to the Fund are set at \$40 for 2021 and subsequent years (increased from \$30 in 2020) per tonne, subject to change by Ministerial order. Under the TIER Regulation there are no limits on purchasing fund credits to meet a facility's true up obligation; however, the TIER Regulation includes limits on the use of EPCs and emission offsets for compliance purposes and expiry periods for EPCs and emission offsets according to the vintage year.

Annual compliance reports for facilities subject to the TIER Regulation are due June 30 of the year following the compliance year. A facility that exceeds one megatonne of annual emissions is considered a forecasting facility and must also submit an annual forecasting report by November 30.

The SGRR imposes GHG emissions reporting requirements on facilities that have GHG emissions of 10,000 tonnes or more in a year. In addition, Alberta facilities must currently report emissions of industrial air pollutants and comply with obligations imposed in permits and under other environmental regulations.

No assurance can be given that environmental laws and regulations will not result in a curtailment of the Corporation's production or a material increase in the Corporation's costs of production, development or exploration activities or otherwise have a material adverse effect on the Corporation's results of operations, financial condition and prospects. The Corporation believes that it is reasonably likely that the trend towards stricter standards in environmental legislation will continue and anticipates that capital and operating costs may increase as a result of more stringent environmental laws. A legislated cap on oil sands greenhouse gas emissions could significantly reduce the value of the Corporation's assets.

### **United States Regulations**

Several federal programs regulate the transportation sector on the basis of greenhouse gas emissions and fuel consumption and could accordingly impact demand for crude or synthetic crude oil. The EPA and the National Highway Traffic Safety Administration administer regulations restricting GHG emissions from automobiles and trucks. The EPA also administers the Renewable Fuel Standard, which requires specified "renewable fuels" to be blended into U.S. transportation fuel, with increasing volumes coming from lower GHG emitting fuels over time. The EPA also regulates certain stationary sources of greenhouse gas emissions pursuant to the Clean Air Act.

At the state level, California's Air Resources Board ("ARB") administers two regulatory programs that impact the crude or synthetic crude oil industry: a Low Carbon Fuel Standard ("LCFS") and a cap-and-trade program. California's LCFS regulates fuel suppliers based on the "carbon intensity" of their fuel supplied to market, i.e., the GHG emissions associated with the entire lifecycle of the fuel, from extraction to refining to end use. ARB's determination that Canadian synthetic crude has a high carbon intensity imposes certain costs on its use under the LCFS, potentially decreasing demand for such fuel vis-a-vis other less carbon intensive fuel types. Despite a legal challenge claiming that the LCFS improperly discriminated against out-of-state sources of ethanol and crude oil in violation of the Commerce Clause of the United States Constitution, the LCFS was

upheld and the United States Supreme Court denied a petition to review the case. California's cap-and-trade program began regulating the GHG emissions of fuel supplied to the California market on January 1, 2015, imposing costs in proportion to the GHG emissions potential of fuel supplied to the California market. Unlike the LCFS, the cap-and-trade program does not involve a lifecycle analysis and accordingly will not have any disproportionate impact on high-carbon-intensity crude or synthetic crude. Nonetheless, the regulation will impose additional costs on suppliers of petroleum fuel products and, accordingly, may decrease demand for crude and synthetic crude oil. In addition, a number of other states have adopted or are considering similar measures that could impact the demand for crude and/or synthetic crude oil.

## THE FUTURE OF GHG EMISSION REGULATIONS

There will likely be some financial impact of GHG emission regulation on most oil sands industry participants and their projects, possibly including MEG and its projects, however the extent of that impact is not yet known. In particular, there is uncertainty regarding the ultimate GHG emission regulatory regime that will be applicable to MEG due to, among other things, the recent changes to Alberta's GHG regime and the potential for changes to the United States' regulation of GHG emissions and the potential for the harmonization of GHG emission regulatory regimes in Canada and the United States.

At present, there is no assurance that any new regulations implemented by the Government of Canada relating to the reduction of GHG emissions will be harmonized with the Government of Alberta's GHG emissions reduction regulations. In such case, the costs of meeting new federal government requirements could be considerably higher than the costs of meeting Alberta's requirements.

See "Risk Factors".

## ACCOUNTABILITY AND TRANSPARENCY

In 2015, the federal government's Extractive Sector Transparency Measures Act (the "ESTMA") came into effect, which imposed mandatory reporting requirements on certain entities engaged in the "commercial development of oil, gas or minerals", including exploration, extraction and holding permits. All companies subject to ESTMA must report payments over \$100,000 made to any level of a Canadian or foreign government (including Indigenous groups), including royalty payments, taxes (other than consumption taxes and personal income taxes), fees, production entitlements, bonuses, dividends (other than ordinary dividends paid to shareholders), infrastructure improvement payments and other prescribed categories of payments.

## DIRECTORS AND EXECUTIVE OFFICERS

### DIRECTORS AND EXECUTIVE OFFICERS

As of the date of this Annual Information Form, the name, municipality of residence, positions held with the Corporation and principal occupation during the preceding five years of each of the directors and executive officers of the Corporation are as set forth below.

Name, Province or State and Country of Residence	Position(s) Held	Director Since	Principal Occupation During the Preceding Five Years
Derek W. Evans ..... Alberta, Canada	President, Chief Executive Officer and a Director	August 10, 2018	President, Chief Executive Officer and a Director of the Corporation since August 2018. Director of Franco-Nevada Corporation since August 2008. Formerly President, Chief Executive Officer and Director of Pengrowth Energy from 2009 to March 2018.

Name, Province or State and Country of Residence	Position(s) Held	Director Since	Principal Occupation During the Preceding Five Years
Eric L. Toews..... Alberta, Canada	Chief Financial Officer	N/A	Chief Financial Officer of the Corporation since September 2013. Formerly a Managing Director of BMO Capital Markets from February 2006 until August 2013.
Chi-Tak Yee..... Alberta, Canada	Chief Operating Officer	N/A	Chief Operating Officer of the Corporation since August 27, 2018, prior to which he served as Senior Vice President, Operations, Resource and Technology Development of the Corporation from November 2017 to August 2018, Senior Vice President, Reservoir and Geosciences of the Corporation from November 2011 until November 2017 and Vice President, Reservoir & Production of the Corporation from September 2004 until November 2011.
Lyle S. Yuzdepski ..... Alberta, Canada	Senior Vice President, General Counsel and Corporate Secretary	N/A	Senior Vice President, Legal, General Counsel and Corporate Secretary since January 2020. General Counsel and Corporate Secretary of the Mancal Group from January 2007 to January 2020. Formerly a partner at McCarthy Tétrault LLP.
Ian D. Bruce <sup>(1)</sup> ..... Alberta, Canada	Chairman of the Board	June 13, 2019	Director of the Corporation since June 2019. Chair of the Board of Cameco Corporation since May 2018 and a director since 2012. Former President and CEO of Peters & Co. Limited.
Grant D. Billing <sup>(1)(2)(4)</sup> ..... Alberta, Canada	Director	June 13, 2019	Director of the Corporation since June 2019. Director and Chair of the Board of Tervita Corporation since December 2016. Director of Badger Daylighting Ltd. Independent businessman since January 2012, prior thereto, CEO of Superior Plus Corp. from July 2006 until November 2011.
Judy A. Fairburn <sup>(1)(4)(5)</sup> ..... Alberta, Canada	Director	June 13, 2019	Director of the Corporation since June 2019. Currently serves as a director of Petronas Energy Canada Limited, Tundra Oil & Gas Ltd. and VEERUM Inc. Co-CEO and Director of The51 Ventures Inc. Formerly Executive Vice President, Safety and Chief Digital Officer and portfolios including strategic planning, business innovation and environment at Cenovus Energy Inc.

Name, Province or State and Country of Residence	Position(s) Held	Director Since	Principal Occupation During the Preceding Five Years
Robert B. Hodgins <sup>(1)(2)(4)</sup> ..... Alberta, Canada	Director	September 23, 2010	Director of the Corporation since September 2010. Independent businessman and director of AltaGas Ltd., Enerplus Corporation and Gran Tierra Energy Inc. Senior Advisor, Investment Banking of Canaccord Genuity Corp. since September 2018.
William R. Klesse <sup>(1)(5)</sup> ..... Texas, United States	Director	June 28, 2016	Director of the Corporation since June 2016. Director of Occidental Petroleum Corporation. Formerly CEO and Chairman of Valero Energy Corporation from 2005 to 2014.
Susan M. MacKenzie <sup>(1)(3)(5)</sup> ..... Alberta, Canada	Director	June 17, 2020	Director of the Corporation since June 2020. Corporate director since 2011. Currently a director of Enerplus Corporation, Freehold Royalties Ltd. and Precision Drilling Corporation.
Jeffrey J. McCaig <sup>(1)(3)(5)</sup> ..... Alberta, Canada	Director	March 1, 2014	Director of the Corporation since March 2014. Currently Chairman of the Board of Trimac Transportation of which he was Chief Executive Officer until December 31, 2015. Director of Bantrel Company since 2000, becoming its Chairman in December 2007. Formerly a Director of Potash Corporation of Saskatchewan from January 2001 to May 2017.
James D. McFarland <sup>(1)(2)(3)</sup> ..... Alberta, Canada	Director	June 9, 2010	Director of the Corporation since June 2010. Director of Valeura Energy Inc. since April 2010 and President and CEO until his retirement in 2017. Prior thereto, President and Chief Executive Officer, director and co-founder of Verenex Energy Inc. from 2004 until 2009.
Diana J. McQueen <sup>(1)(3)(4)</sup> ..... Alberta, Canada	Director	October 6, 2015	Director of the Corporation since October 2015. Self-employed consultant since September 2015. Formerly held various Alberta provincial cabinet roles during 2011 to 2015, including Minister of Energy, Minister of Environment and water, and Minister of Municipal Affairs.

**Notes:**

- (1) Independent director.
- (2) Member of the Audit Committee. Mr. Hodgins is the Chairman of the Audit Committee.
- (3) Member of the Compensation Committee. Mr. McFarland is the Chairman of the Compensation Committee.
- (4) Member of the Governance and Nominating Committee. Ms. McQueen is the Chairman of the Governance and Nominating Committee.
- (5) Member of the Health, Safety and Environment & Reserves Committee. Mr. Klesse is the Chairman of the Health, Safety and Environment & Reserves Committee.

As of December 31, 2020, the directors and executive officers of the Corporation, as a group, directly or indirectly, beneficially owned or held control or direction over 1,903,206 Common Shares representing approximately 0.63% of the issued and outstanding Common Shares.

## CORPORATE CEASE TRADE ORDERS OR BANKRUPTCIES

Other than as described below, to the Corporation's knowledge, none of its current directors or executive officers (nor any personal holding company of such persons) is, as of the date of this Annual Information Form, or has been, within ten years before the date of this Annual Information Form, a director, chief executive officer or chief financial officer of any company (including the Corporation) that:

- (a) was subject to a cease trade order, an order similar to a cease trade 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 (collectively, an "Order") that was issued while the director or officer was acting in the capacity as director, chief executive officer or chief financial officer; or
- (b) was subject to an Order 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 the capacity as director, chief executive officer or chief financial officer.

To the Corporation's knowledge, other than as described below, none of its directors or executive officers (nor any personal holding company of such persons) or shareholders holding a sufficient number of securities of the Corporation to affect materially the control of the Corporation:

- (a) is, as of the date of this Annual Information Form, or has been, within the ten years before the date of this Annual Information Form, a director or executive officer of any company (including the Corporation) 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; or
- (b) has, within the ten years before the date of this Annual Information Form, 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.

Ian D. Bruce was a director of Laricina Energy Limited ("Laricina"), a junior oil sands private company, from 2013 to 2017. Laricina entered into *Companies' Creditors Arrangement Act* ("CCAA") under a protection order on March 26, 2015 and emerged on February 1, 2016, following completion of a restructuring.

Derek W. Evans was a director (until his resignation in January 2016) of Endurance Energy Ltd. (a private oil and gas company) that sought protection under the CCAA in May 2016.

Robert B. Hodgins was formerly a director of Skope Energy Inc. ("Skope"), a TSX listed company, which in November 2012, commenced proceedings in the Court of Queen's Bench of Alberta under the CCAA, to implement a restructuring which was completed on February 19, 2013. Mr. Hodgins ceased to be a director of Skope on February 19, 2013.

## PENALTIES OR SANCTIONS

To the knowledge of the Corporation, no director or executive officer of the Corporation (nor any personal holding company of any of such persons), or shareholder holding a sufficient number of securities of the Corporation to affect materially the control of the Corporation, 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.



## CONFLICTS OF INTEREST

Certain of the directors and officers of the Corporation are engaged in, and may continue to be engaged in, other activities in the oil and natural gas industry from time to time. As a result of these and other activities, certain directors and officers of the Corporation may become subject to conflicts of interest from time to time. The ABCA provides that in the event that an officer or director is a party to, or is a director or an officer of, or has a material interest in any person who is a party to, a material contract or material transaction or proposed material contract or proposed material transaction, such officer or director shall disclose the nature and extent of his or her interest and shall refrain from voting to approve such contract or transaction, unless otherwise provided under the ABCA. To the extent that conflicts of interest arise, such conflicts will be resolved in accordance with the provisions of the ABCA.

As of the date of this Annual Information Form, the Corporation is not aware of any existing or potential material conflicts of interest between the Corporation (or a subsidiary of the Corporation) and any director or officer of the Corporation (or a subsidiary of the Corporation).

## AUDIT COMMITTEE

The full text of the Audit Committee Charter is included in Appendix C of this Annual Information Form.

### COMPOSITION OF THE AUDIT COMMITTEE

The Audit Committee has been structured to comply with the requirements of NI 52-110. The Board has determined that the Audit Committee members have the appropriate level of financial understanding and industry-specific knowledge to be able to perform their duties.

The Audit Committee's charter requires that the Audit Committee periodically assess the adequacy of procedures for the public disclosure of financial information and review on behalf of the Board, and report to the Board, the results of its review and its recommendations regarding all material matters of a financial reporting and audit nature, including the following main subject areas:

- financial statements and management's discussion and analysis;
- financial information in any annual information form, management proxy circular, prospectus or other offering document, material change report or business acquisition report;
- reports to shareholders and others;
- press releases regarding annual and interim financial results;
- internal controls;
- audits and reviews of financial statements of the Corporation and its subsidiaries; and
- filings with securities regulators containing financial information.

The Audit Committee is responsible for implementing satisfactory procedures for the receipt, retention and treatment of complaints and for the confidential, anonymous submission by employees regarding any accounting, internal accounting controls or auditing matters. The Board is kept informed of the Audit Committee's activities by means of a report delivered at each regularly scheduled meeting of the Board.

The Audit Committee recommends the nomination of the external auditor to the Board and annually reviews and evaluates the external auditor. The Audit Committee determines the compensation of the external auditor. Once appointed by the shareholders, the external auditor reports directly to the Audit Committee. The Audit Committee has direct responsibility for overseeing the work of the external auditor engaged for the purpose of preparing or issuing an auditor's report or performing other audit, review or attest services, including the resolution of disagreements between the external auditor and management. The Audit Committee reviews and approves the Corporation's hiring policies regarding current and former partners and employees of the external auditor. In addition, the Audit Committee pre-approves non-audit services undertaken by the external auditor.

The Audit Committee meets at least once per financial quarter to fulfill its mandate. The members of the Audit Committee are Messrs. Hodgins (Chair), Billing and McFarland. The Board has determined that each member of the Audit Committee is independent and financially literate within the meaning of NI 52-110. The charter of the Audit Committee and additional disclosure required under NI 52-110 is provided in Appendix C of this Annual Information Form.

## DESCRIPTION OF CAPITAL STRUCTURE

The Corporation's authorized share capital currently consists of an unlimited number of Common Shares without nominal or par value and an unlimited number of Preferred Shares, issuable in series. As of December 31, 2020, 302,681,283 Common Shares, and no Preferred Shares, were issued and outstanding. The following is a summary of the rights, privileges, restrictions and conditions attached to the Common Shares and Preferred Shares.

### COMMON SHARES

Each Common Share entitles the holder thereof to: (i) one vote at all meetings of shareholders of the Corporation except meetings at which only holders of a specified class of share are entitled to vote; (ii) subject to the prior rights and privileges attaching to any other class of shares, the right to receive any dividend on the Common Shares declared by the Corporation; and (iii) subject to the prior rights and privileges attaching to any other class of shares, the right to receive the remaining property of the Corporation upon dissolution. For a description of the Corporation's dividend policy, see "Dividends Policy".

In connection with the initial public offering of its Common Shares on August 6, 2010, the Corporation adopted the Rights Plan. At the annual and special meeting of shareholders of the Corporation held on June 17, 2020, shareholders passed a resolution extending the term of the Rights Plan until the annual meeting of shareholders of the Corporation to be held in 2023. The objective of the Rights Plan is to ensure, to the extent possible, that all shareholders of the Corporation are treated equally and fairly in connection with any take-over bid or similar proposal to acquire the Common Shares and to provide the Board of Directors with sufficient time to evaluate any unsolicited take-over bid and develop alternatives to maximize shareholder value.

The Rights Plan discourages the making of any unsolicited take-over bid by creating the potential of significant dilution to any offeror who does so. This is done through the issuance to all shareholders of contingent rights to acquire additional Common Shares at a significant discount to the then prevailing market prices, which could, in certain circumstances, become exercisable by all shareholders other than an offeror and its associates, affiliates and joint actors.

In connection with the adoption of the Rights Plan, the Corporation issued one right in respect of each Common Share outstanding at the close of business on August 6, 2010 (the "Effective Date") and authorized the issuance of one right in respect of each additional Common Share issued after the Effective Date and prior to the earlier of the Separation Time (as defined in the Shareholder Rights Plan Agreement that governs the Rights Plan) and the time at which the rights expire and terminate. The rights trade with and are represented by Common Share certificates, including certificates issued prior to the Effective Date.

### PREFERRED SHARES

The Preferred Shares may at any time and from time to time be issued in one or more series, each series to consist of such number of shares as may, before the issue thereof, be determined by resolution of the Board; and subject to the provisions of the ABCA, the Board may by resolution fix from time to time before the issue thereof the designation, rights, privileges, restrictions and conditions attaching to each series of the Preferred Shares.

## DIVIDEND POLICY

The Corporation has never declared or paid any cash dividends on the Common Shares. The Corporation does not currently anticipate paying any cash dividends on the Common Shares in the foreseeable future but will review that policy from time to time as circumstances warrant. The Corporation currently intends to retain future earnings, if any, for future operations and debt repayment. Any decision to declare and pay dividends in the future will be made at the discretion of the Board of Directors and will depend on, among other things, the Corporation's results of operations, current and anticipated cash

requirements and surplus, financial condition, contractual restrictions, solvency tests imposed by corporate law and other factors that the Board may deem relevant.

In addition to the foregoing, the Corporation's ability to pay dividends now or in the future may be limited by restrictions contained in the agreements governing certain indebtedness that the Corporation has incurred or may incur in the future.

## MARKET FOR SECURITIES

The Common Shares are listed and posted for trading on the TSX under the trading symbol "MEG". The following table sets out the high and low price for, and the volume of trading in, the Common Shares on the TSX, as reported by the TSX, on a monthly basis for the year ended December 31, 2020.

	Volume (Shares)	Monthly Price Range	
		High (\$)	Low (\$)
January .....	50,342,130	8.07	6.61
February .....	52,398,567	7.57	5.45
March .....	139,341,875	6.43	1.13
April .....	180,163,310	3.44	1.46
May .....	93,865,949	3.43	2.63
June .....	86,990,440	4.35	3.15
July .....	52,612,764	4.12	3.36
August .....	48,146,922	4.35	3.55
September .....	45,306,151	3.72	2.56
October .....	49,584,864	3.02	2.14
November .....	60,678,621	4.02	2.36
December .....	69,931,541	4.79	3.45

## CREDIT RATINGS

The following information relating to the Corporation's credit ratings is provided as it relates to the Corporation's financing costs, liquidity and operations. Specifically, credit ratings affect the Corporation's ability to obtain short-term and long-term financing and the cost of such financing. Additionally, the ability of the Corporation to engage in certain collateralized business activities on a cost-effective basis depends on the Corporation's credit ratings. A reduction in the current rating on the Corporation's debt by its rating agencies, particularly a downgrade below current ratings, or a negative change in the Corporation's ratings outlook could adversely affect the Corporation's cost of future financing and its access to sources of liquidity and capital. In addition, changes in credit ratings may affect the Corporation's ability to, and the associated costs of, (i) entering into ordinary course derivative or hedging transactions and may require the Corporation to post additional collateral under certain of its contracts, and (ii) entering into and maintaining ordinary course contracts with customers and suppliers on acceptable terms.

### Credit Ratings Received by the Corporation as at December 31, 2020

	Moody's Investors Service ("Moody's")	S&P Global Ratings ("S&P")	Fitch Ratings ("Fitch")
Issuer Credit Rating	B2 (Negative)	CCC+ (Stable)	B (Stable)
Second Lien Secured Debt (Secured Notes)	Ba3	B	BB
Senior Unsecured Debt (High Yield Notes)	B3	B-	B+

Moody's issuer credit rating is a long-term rating that reflects the likelihood of a default on a corporate family's contractable promised payments and the expected financial loss suffered in the event of a default. S&P's issuer credit rating is a forward-looking opinion about an obligor's overall financial capacity to pay its financial obligations (its creditworthiness). Fitch's credit

ratings provide an opinion on the relative ability of an entity to meet financial commitments or counterparty obligations. Long-term credit ratings are intended to provide an independent measure of the credit quality of long-term debt.

Moody's credit ratings are on a rating scale that ranges from Aaa to C, which represents the range from highest to lowest quality of such securities rated. A rating of "B" by Moody's is within the sixth highest of nine categories and is assigned to debt securities which are considered speculative and are subject to high credit risk. The addition of a 1, 2 or 3 modifier after a rating indicates the relative standing within a particular rating category. 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. The "negative" rating outlook indicates a higher likelihood of a rating change over the medium term than a "stable" rating outlook. A rating of "Ba" by Moody's is within the fifth highest of nine categories and is assigned to debt securities which are judged to be speculative and subject to substantial credit risk.

S&P's issuer credit ratings are on a rating scale that ranges from AAA to D, which represents the range from highest to lowest quality. The ratings from AA to CCC may be modified by the addition of a plus (+) or minus (-) sign to show the relative standing within the major rating categories. An issuer credit rating of CCC by S&P is within the seventh highest of ten categories and indicates that the obligor is currently vulnerable to nonpayment, and is dependent upon favorable business, financial, and economic conditions for the obligor to meet its financial commitment on the obligation; in the event of adverse business, financial, or economic conditions, the obligor is not likely to have the capacity to meet its financial commitment on the obligation. S&P assigns "stable" outlooks to issuer ratings when S&P believes that a rating is not likely to change over the intermediate term for investment-grade credits (generally up to two years) and over the shorter term for speculative-grade credits (generally up to one year).

S&P's long-term credit ratings of individual securities are on a rating scale that ranges from AAA to D, which represents the highest to lowest quality of such securities rated. The ratings from AA to CCC may be modified by the addition of a plus (+) or minus (-) sign to show the relative standing within the major rating categories. A long-term credit rating of B is within the sixth highest of ten categories and is considered more vulnerable to non-payment in the near-term than obligations rated BB, but the obligor currently has the capacity to meet its financial commitments on the obligation; adverse business, financial, or economic conditions will likely impair the obligor's capacity or willingness to meet its financial commitments on the obligation.

Fitch's issuer credit ratings are on a rating scale that ranges from AAA to D which represents the range from highest to lowest quality. The ratings from AA to CCC may be modified by the addition of a plus (+) or minus (-) sign to show the relative standing within the major rating categories. An issuer credit rating of B by Fitch is within the sixth highest of eleven categories and indicates that material default risk is present, but a limited margin of safety remains. Financial commitments are currently being met; however, capacity for continued payment is vulnerable to deterioration in the business and economic environment. Fitch's outlooks indicate the direction a rating is likely to move over a one to two-year period, reflecting financial or other trends that have not yet reached or been sustained the level that would cause a rating action, but which may do so if such trends continue. A "stable" outlook indicates neither an upward nor negative trend on the rating scale.

Fitch's ratings of individual securities are on a rating scale that ranges from AAA to C, which represents the highest to lowest quality of such securities rated. The ratings from AA to CCC may be modified by the addition of a plus (+) or minus (-) sign to show the relative standing within the major rating categories. A credit rating of BB is within the fifth highest of nine categories and indicates an elevated vulnerability to credit risk, particularly in the event of adverse changes in business or economic conditions over time; however, business or financial alternatives may be available to allow financial commitments to be met. A credit rating of B is within the sixth highest of nine categories and indicates that material credit risk is present.

The credit ratings assigned by the rating agencies are not recommendations to purchase, hold or sell the debt nor do the ratings comment on market price or suitability for a particular investor. A rating may not remain in effect for any given period of time and may be revised or withdrawn entirely by a rating agency in the future if, in its judgment, circumstances so warrant.

## RISK FACTORS

If any event arises from the risk factors set forth below, the Corporation's business, prospects, financial condition, results of operation or cash flows and, in some cases, the Corporation's reputation could be materially adversely affected.

## RISKS RELATING TO THE CORPORATION'S BUSINESS

### *Risk Arising From Operations*

MEG's operating results and the value of its reserves and contingent resources depend, in part, on the price received for bitumen and on the operating costs of the Christina Lake Project and MEG's other projects, all of which may significantly vary from that currently anticipated. If such operating costs increase or MEG does not achieve its expected revenues, MEG's earnings and cash flow will be reduced and its business and financial condition may be materially adversely affected. Principal factors, amongst others, which could affect MEG's operating results include (without limitation):

- a decline in oil prices or widening of differentials between various crude oil prices;
- increases in the price applied to carbon emissions;
- the negative impacts of the COVID-19 pandemic and the related global economic downturn;
- lower than expected reservoir performance, including, but not limited to, lower oil production rates and/or higher SORs, or the inability to recognize continued or increased efficiencies from the Corporation's production enhancement program which uses a combination of proprietary reservoir technologies (including eMSAGP and eMVAPEX) and processing plant enhancements, debottlenecking and brownfield expansions;
- reduced access to or an increase in the cost of diluent;
- an increase in the cost of natural gas;
- the reliability and maintenance of MEG's facilities;
- the safety and reliability of the Access Pipeline, other pipelines, tankage, railways and railcars and barges that transport MEG's products;
- the need to replace significant portions of existing wells, referred to as "workovers", or the need to drill additional wells;
- the cost to transport bitumen, diluent and bitumen blend, and the cost to dispose of certain by-products;
- the availability and cost of insurance and the inability to insure against certain types of losses;
- severe weather or catastrophic events such as fires, lightning, earthquakes, extreme cold weather, storms or explosions;
- seasonal weather patterns and the corresponding effects of the spring thaw on accessibility to MEG's properties;
- the availability of water supplies and the ability to transmit power on the electrical transmission grid;
- changes in the political landscape and/or legal, tax and regulatory regimes in Canada, the United States and elsewhere;
- the ability to obtain further approvals and permits for MEG's future projects;
- the availability of pipeline capacity and other transportation and storage facilities for MEG's bitumen blend;
- refining markets for MEG's bitumen blend;
- increased royalty payments resulting from changes in regulatory regimes;
- the cost of chemicals used in MEG's operations, including, but not limited to, in connection with water and/or oil treatment facilities;
- the availability of and access to drilling equipment; and
- the cost of compliance with applicable regulatory regimes, including, but not limited to, environmental regulation and Government of Alberta production curtailments, if any.

## ***Status and Stage of Development***

While the first three phases of the Christina Lake Project are operational, additional phases and other projects may not be completed on time (or at all), and the costs associated with additional phases may be greater than expected. At a design SOR of 2.4, the Corporation has developed oil processing capacity of approximately 100,000 bbls/d at its Christina Lake central plant facility, prior to any impact of scheduled maintenance activity or outages through the phased construction of the Christina Lake Project as well as several low-cost debottlenecking and expansion projects and the application of its proprietary reservoir technologies. While the investment in Phase 2B brownfield growth project central processing plan is near completion, ramp up in production from the brownfield project, subsequent production enhancement and other projects may not be completed on budget, on time or at all, and the costs associated with additional phases and other projects may be greater than the Corporation expects. In addition, in 2019, MEG opted to request a temporary pause in the regulatory approval process for the May River Regional Project, due to current economic conditions and constrained access to markets.

Additional phases of development of the Christina Lake Project or MEG's other projects may also suffer from delays, cancellations, interruptions or increased costs due to many factors, some of which may be beyond the Corporation's control, including (without limitation):

- future capital expenditures to be made by the Corporation and/or a determination by MEG not to devote capital expenditures to a given project;
- engineering and/or procurement performance falling below expected levels of output or efficiency;
- construction performance falling below expected levels of output or efficiency;
- denial or delays in receipt of regulatory approvals, additional requirements imposed by changes in laws or non-compliance with conditions imposed by regulatory approvals;
- a determination not to proceed with, or to delay, development of a given project;
- labour disputes or disruptions, declines in labour productivity or the unavailability of, or increased cost of, skilled labour;
- increases in the cost of materials;
- changes in project scope or errors in design;
- additional requirements imposed by changes in laws, including environmental laws and regulations;
- the availability of and access to drilling equipment; and
- severe weather or catastrophic events such as fire, earthquakes, extreme cold weather, storms or explosions.

If any of the above events occur, they could have a material adverse effect on the Corporation's ability to continue to develop the Christina Lake Project or other future projects, which would materially adversely affect its business, financial condition, results of operations and prospects. In addition, if any of the Corporation's future phases do not become operational after it has made significant investments therein, the Corporation's operations may not generate sufficient revenue to support its capital structure.

## ***Concentration of Production in Single Project***

All of MEG's current production and a significant amount of future production, is or will be generated by the Christina Lake Project and transported to markets on the Access Pipeline, Enbridge Mainline and Flanagan South and Seaway Pipelines. Any event that interrupts operations at the Christina Lake Project or the operations of these pipelines may result in a significant loss or delay in production.

## ***Non-Producing or Undeveloped Reserves and Contingent Resources***

The substantial majority of MEG's total reserves and all of MEG's contingent resources are non-producing and/or undeveloped. These reserves and contingent resources may not ultimately be developed or produced, either because it may not be commercially viable to do so or for other reasons. Furthermore, not all of MEG's undeveloped or developed non-

producing reserves or contingent resources may be ultimately produced at the time periods MEG has planned, at the costs MEG has budgeted or at all.

A determination by MEG not to proceed with, or to delay, development of a given project may result in certain reserves pertaining to such project being reclassified. For example, the movement of the Surmont Project out of MEG's development plan in 2019 resulted in the reclassification of probable undeveloped reserves attributed to the Surmont Project in the GLJ Report to contingent resources.

### ***Uncertainties Associated with Estimating Reserves and Resources Volumes***

There are numerous uncertainties inherent in estimating quantities of proved and probable reserves, quantities of contingent resources and future net revenues to be derived therefrom, including many factors beyond the Corporation's control. The reserves, contingent resources and estimated financial information with respect to certain of the Corporation's oil sands leases have been independently evaluated by GLJ. These evaluations include a number of factors and assumptions made as of the date on which the evaluation is made such as geological and engineering estimates which have inherent uncertainties, the effects of regulation by governmental agencies such as initial production rates, production decline rates, ultimate recovery of reserves and contingent resources, timing and amount of capital expenditures, marketability of production, current and forecast prices of blended bitumen, crude oil and natural gas, MEG's ability to transport its product to various markets, operating costs, abandonment and salvage values and royalties and other government levies that may be imposed over the producing life of the reserves and contingent resources. Many of these assumptions are subject to change and may not, over time, prove to be accurate. Actual production and cash flow derived from MEG's oil sands leases may vary from these evaluations, and such variations may be material.

Estimates with respect to reserves and contingent resources that may be developed and produced in the future are often based upon volumetric calculations, probabilistic and deterministic methods and analogy to similar types of reserves and contingent resources, rather than upon actual production history. Estimates based on these methods generally are less reliable than those based on actual production history. Subsequent evaluation of the same reserves or contingent resources based upon production history will result in variations, which may be material, from current estimated reserves and contingent resources.

Reserves and contingent resources estimates may require revision based on actual production experience. Such figures have been determined based upon assumed commodity prices and operating costs. Market price fluctuations of bitumen, diluent and natural gas prices may render the recovery of certain grades of bitumen uneconomic. The present value of MEG's estimated future net revenue disclosed herein and in the GLJ Report should not be construed as the fair market value of MEG's reserves or contingent resources, as applicable.

### ***Long-Term Reliance on Third Parties***

The Christina Lake Project and MEG's other projects will depend on the availability and successful operation of certain infrastructure owned and operated by third parties or joint ventures with third parties, including (without limitation):

- pipelines for the transport of natural gas, diluent and blended bitumen;
- power transmission grids supplying and exporting electricity; and
- other third-party transportation infrastructure such as roads, rail, airstrips, terminals and vessels.

For example, the Christina Lake Project and future projects will depend on the successful operation of the Access Pipeline. Any interruption in the operation of the Access Pipeline or other pipeline infrastructure could have a material adverse impact on the Corporation by limiting its ability to transport bitumen to end markets and increasing MEG's cost for both sourcing diluent and transporting its bitumen. Such interruptions could result in all or a portion of MEG's production being shut-in. In addition, if certain pipelines currently forecast to be built or currently under construction are not completed on time, to the specifications MEG expects or at all, MEG's anticipated costs could increase and MEG's operating results would be adversely affected.

In addition, the Corporation currently relies on the Mainline system operated by Enbridge Pipelines Inc. ("Enbridge") as part of the Corporation's marketing network to secure delivery of its bitumen product on the Flanagan South and Seaway pipeline



systems providing pipeline transportation directly to U.S. Gulf Coast refineries. The Enbridge Mainline currently operates entirely on a common carrier model rather than a contract carriage model. This means that capacity on the system is allocated based on monthly nominations by shippers rather than on the basis of long-term contracts. On August 2, 2019, Enbridge instituted an “open season” to contract 90% of the available capacity on its Mainline system, with the remaining 10% held for allocation according to the traditional model of nominations. The open season was set to close on October 2, 2019, but in response to applications from a number of parties, including the Corporation, on September 27, 2019, the Canada Energy Regulator (the “CER”) ordered Enbridge to suspend its open season. Although the open season process was suspended, Enbridge filed an application on December 19, 2019 to the CER for regulatory approval to implement contracting on the Mainline system. Although the application has not yet been approved, if contract carriage is approved on the Mainline system, there is a risk that the Corporation may not be able to obtain sufficient contract service on the Mainline to match its downstream contracts on the Flanagan South and Seaway pipeline systems.

The unavailability or decreased capacity of any or all of the infrastructure described above could negatively impact the operation of the Christina Lake Project and MEG’s other projects, which, in turn, may have a material adverse effect on MEG’s results of operations, financial condition and prospects.

### ***Third Party Claims***

From time to time the Corporation may be the subject of litigation arising out of its operations. There is also a risk that MEG could face litigation initiated by third parties relating to climate change, including litigation pertaining to GHG emissions, the production, sale or promotion of fossil fuels and petroleum products and/or disclosure. Claims under any such litigation may be material or may be indeterminate. The outcome of such litigation may materially affect the Corporation’s financial condition or results from operations. The Corporation may be required to incur significant expenses or devote significant resources in defense of any litigation.

### ***Diluent Supply***

Bitumen has a high specific gravity or weight and high viscosity or resistance to flow. Diluent is required to facilitate the processing and transportation of bitumen. In addition, the use of condensate diluent is important in MEG’s strategy of developing bitumen blends for marketing purposes. A shortage of condensate may cause its cost to increase or alternative diluent supplies to be purchased, thereby increasing the cost to transport bitumen to market and increasing MEG’s operating cost, as well as affecting MEG’s bitumen blend marketing strategy.

### ***Operational Hazards***

The operation of the Corporation’s thermal oil production properties and projects have experienced and will continue to be subject to the customary hazards of recovering, transporting and processing hydrocarbons, such as fires, explosions, gaseous leaks, migration of harmful substances, blowouts and spills. In addition, the geological characteristics and integrity of the bitumen reservoirs are inherently uncertain. The injection of steam into reservoirs under significant pressure may result in unforeseen damage to reservoirs that could result in steam blowouts or oil or gaseous leaks. A casualty occurrence might result in the loss of equipment or life, as well as injury, property damage or the interruption of the Corporation’s operations. MEG does not and will not carry insurance with respect to all potential casualties, damages, losses and disruptions. MEG’s insurance may not be sufficient to cover any such casualties, damages, losses or disruptions. Losses and liabilities arising from uninsured or under insured events could have a material adverse effect on the Corporation’s results of operations, financial condition and prospects.

### ***Competition***

The Canadian and international petroleum industry is highly competitive in all aspects, including the exploration for, and the development of, new sources of supply, the acquisition of thermal oil production leases and the distribution and marketing of petroleum products. MEG competes with producers of bitumen, synthetic crude oil blends and conventional crude oil. Some of the conventional producers have lower operating costs than MEG and many of them have greater resources to source, attract and retain the personnel, materials and services that MEG requires to conduct its operations. The petroleum industry also competes with other industries in supplying energy, fuel and related products to consumers. Some of these

industries benefit from lighter regulation, lower taxes and subsidies. In addition, certain of these industries are less capital intensive.

Expansion of existing operations and development of new projects could significantly increase the supply of bitumen and other competing crude oil products in the marketplace. Depending on the levels of future demand, increased supplies could have a negative impact on bitumen pricing and, accordingly, the Corporation's results of operations, financial condition and prospects. In addition, the industry's expansion of existing operations and development of new projects could materially increase the costs of inputs such as natural gas, diluent, labour, equipment, materials or services which, in turn, may have a material adverse effect on the Corporation's results of operations and financial condition.

### ***SAGD and eMSAGP Bitumen Recovery Process***

The recovery of bitumen using SAGD and eMSAGP processes is subject to uncertainty. Current SAGD and eMSAGP technologies for *in situ* extraction of bitumen or for reservoir injection require significant consumption of natural gas or other fuels to produce steam for use in the recovery process. There can be no assurance that the Corporation's operations will produce bitumen at the expected levels or on schedule. The quality and performance of the bitumen reservoir can also impact the SOR and the timing and levels of production. Current *in situ* thermal extraction technologies for the extraction of bitumen, including SAGD and eMSAGP, involve the injection of steam into the bitumen reservoir under significant pressure.

This process requires significant consumption of natural gas or other fuels to produce steam for use in the recovery process. The amount of steam required in the production process can vary and impact costs significantly. In addition, the geological characteristics and integrity of the bitumen reservoirs are inherently uncertain. The injection of steam into reservoirs under significant pressure may cause fluid containment issues and unforeseen damage to reservoirs, resulting in large steam losses in parts of the reservoir where caprock may have been compromised or there are connected reservoir thief zones such as bottom water and top gas and/or water. Should these adverse reservoir conditions be encountered, the bitumen recovery levels achieved by the Corporation may be negatively impacted.

### ***Royalty Regimes***

The Province of Alberta receives royalties on the production of natural resources from lands in which it owns the mineral rights that are linked to price and production levels and that apply to both new and existing thermal oil production projects. See "Regulatory Matters".

The Government of Alberta implemented the Modernized Royalty Framework, effective January 1, 2017, to incorporate a single royalty structure for crude oil, liquids and gas. The Modernized Royalty Framework does not apply to oil sands, which is subject to a separate royalty regime. Following the Government of Alberta's royalty review in 2016, the royalty structure and rates for oil sands production remain generally unchanged, with some minor adjustments to allowable costs and transparency. The Government of Alberta passed Bill 12, the Royalty Guarantee Act on July 18, 2019, ensuring that when a well is drilled, the royalty structure will remain in place for at least ten years, subject to certain listed exceptions. On July 23, 2020, Bill 22, the Red Tape Reduction Implementation Act, received Royal Assent. This bill proposes an amendment to the Mines and Minerals Act (Alberta) that would allow the Alberta Minister of Energy to make changes to royalty rates without cabinet's approval. There can be no assurances that the Government of Alberta will not amend or repeal these Acts, or that the Government of Canada will not adopt new royalty regimes, which may render the Corporation's projects uneconomic or otherwise adversely affect its results of operations, financial condition or prospects.

An increase in royalties would reduce the Corporation's cash flow and earnings and could make future capital investments or the Corporation's operations uneconomic and could make it more difficult to service and repay the Corporation's debt. Any material increase in royalties would also significantly reduce the value of the Corporation's assets.

### ***Lease Expiries***

The new *Oil Sands Tenure Regulation, 2020* came into force on December 1, 2020 and repeals the *Oil Sands Tenure Regulation, 2010*. The new regulations apply to all leases issued on or after December 1, 2020, to all permits issued under the 2010 Regulation, and those continued or discontinued from the 2010 or the previous 2000 Regulations. The new regulations no

longer require a minimum level of evaluation for the issuance of a lease, but the Minister of Energy may establish a minimum level of production.

Certain of MEG's thermal oil production leases may expire and MEG may be required to surrender lands to the Province of Alberta. The initial term for MEG's thermal oil production leases, some of which began in or subsequent to 1996, is 15 years

Application for continuation may be made during the last year of the term of the lease or at any time during the lease with the consent of the Minister of Energy. For the continuation of a primary lease, the lessee shall provide all production data in those sections to the Minister of Energy. If a lease is designated as "producing", it will continue for its productive life and will not be subject to escalating rentals. A lease designated as "non-producing" can be continued by payment of escalating rentals. An escalating rental is calculated based on the area of the lease location. An exception to the expiration of a lease is when producing wells are on multiple drilling spacing units or leases, the eligible leases are continued.

In 2020, and in view of the potentially changing tenure environment and market conditions, MEG continued to actively evaluate all of its mineral leases to determine the best continuation or rationalization approach. In 2020, MEG surrendered 276 sections associated with 81 mineral leases to the Government of Alberta. The lands surrendered were determined to have no economic recovery potential.

Certain mineral leases located in MEG's Growth Properties (those outside of the Christina Lake Project, Surmont Project and May River Project) are scheduled to expire in 2021 and beyond. MEG is actively evaluating a lease rationalization strategy for these leases in the context of the caribou extensions and market conditions.

### ***Claims Made by Aboriginal Peoples***

Aboriginal peoples have claimed aboriginal title and rights to a substantial portion of western Canada. Certain aboriginal peoples have filed a claim against the Government of Canada, the Province of Alberta, certain governmental entities and the Regional Municipality of Wood Buffalo (which includes the City of Fort McMurray, Alberta) claiming, among other things, aboriginal title to large areas of lands surrounding Fort McMurray, including the lands on which the Christina Lake Project, MEG's other projects and most of the other oil sands operations in Alberta are located. Such claims, and other similar claims that may be initiated, if successful, could have a significant adverse effect on MEG and the Christina Lake Project and MEG's other projects.

### ***Unforeseen Title Defects***

The Corporation has not obtained title opinions in respect of the thermal oil production leases that it intends to develop and, accordingly, the Corporation's ownership of the leases could be subject to prior unregistered agreements or interests, or claims or interests of which the Corporation is currently unaware. If such an event were to occur, the Corporation's rights to the production and reserves associated with such leases could be jeopardized, which could have a material adverse effect on the Corporation's results of operations, financial condition and prospects.

### ***Future Acquisitions and Sufficiency of Funds***

As part of a future growth strategy, MEG may continue to evaluate and, where appropriate, pursue acquisitions of additional mineral leases. Acquisitions of mineral leases, as well as the exploration and development of land subject to such leases, may required substantial capital or the incurrence of substantial additional indebtedness. Furthermore, the acquisition of any additional mineral leases may not ultimately increase MEG's reserves and contingent resources or result in any additional production of bitumen. If MEG consummates any future acquisitions of mineral leases, it may need to change its anticipated capital expenditure programs and the use of the Corporation's capital resources. Additionally, such acquisitions may result in MEG's capitalization and results of operations changing significantly. Investors will not have the opportunity to evaluate the economic, financial and other relevant information that MEG will consider in determining the application of its funds and other resources with respect to such acquisitions.

Significant amounts of capital will be required to develop future phases of the Christina Lake Project, the Surmont Project, the May River Regional Project and the Growth Properties. At present, cash flow from the Corporation's operations is largely dependent on the performance of a single project and commodity prices, and the Corporation's primary alternate source of

funds is the issuance of additional equity or debt. Capital requirements are subject to capital market risks, including the availability and cost of capital. There can be no assurance that sufficient capital will be available or be available on acceptable terms or on a timely basis, to fund the Corporation's capital obligations in respect of the development of its projects or any other capital obligations it may have. If sufficient capital is not available, it could adversely affect the expected growth and development of MEG's business. In addition, a determination by MEG not to proceed with, or to delay, development of a given project may result in certain reserves of the Corporation pertaining to such project being reclassified. For example, the movement of the Surmont Project out of MEG's development plan in 2019 resulted in the reclassification of probable undeveloped reserves attributable to the Surmont Project to contingent resources in the GLJ Report and in future reserves and contingent resources reports.

MEG's actual costs and revenues may vary from expected amounts, possibly to a material degree, and such variations are likely to affect MEG's future capital requirements. Accordingly, MEG may be required to raise substantial additional capital in the future and MEG's current projections may not prove to be accurate. In addition, MEG may accelerate the expansion and development of its projects. If MEG decides to do so, its funding needs will increase, possibly to a significant degree. Similarly, improvements in commodity pricing may result in a decreased need to raise additional capital.

## **RISKS RELATING TO ECONOMIC CONDITIONS, COMMODITY PRICING, DIFFERENTIALS AND EXCHANGE RATE FLUCTUATIONS**

### ***Fluctuations in Market Prices of Crude Oil, Bitumen Blend and Differentials***

MEG's results of operations and financial condition will be dependent upon, among other things, the prices that it receives for the bitumen, bitumen blend or other bitumen products that it sells, and the prices that it receives for such products will be closely correlated to the price of crude oil. Historically, crude oil markets have been volatile and are likely to continue to be volatile in the future. Crude oil prices, and differentials between world crude oil prices and Canadian heavy crude oil prices, have fluctuated widely during recent years and are subject to fluctuations in response to relatively minor changes in supply, demand, market uncertainty and other factors that are beyond MEG's control. These factors include, but are not limited to:

- the negative impacts of the COVID-19 pandemic and the related global economic downturn;
- global energy policy, including (without limitation) the ability of the Organization of the Petroleum Exporting Countries to set and maintain production levels and influence prices for crude oil;
- political instability and hostilities;
- domestic and foreign supplies of crude oil;
- the overall level of energy demand;
- weather conditions;
- government regulations including curtailment orders;
- taxes;
- currency exchange rates;
- the availability of refining capacity and transportation infrastructure, including pipelines;
- the effect of worldwide environmental and/or energy conservation measures;
- the price and availability of alternative energy supplies; and
- the overall economic environment.

Any prolonged period of low crude oil prices, a widening of differentials, or an increase in diluent prices relative to crude oil prices could result in a decision by MEG to suspend or slow development activities, to suspend or slow the construction or expansion of bitumen recovery projects or to suspend or reduce production levels. Any of such actions could have a material adverse effect on MEG's results of operations, financial condition and prospects.

The market prices for heavy oil (which includes bitumen blends) are lower than the established market prices for light and medium grades of oil, due principally to diluent prices and the higher transportation and refining costs associated with heavy oil. Also, the market for heavy oil is more limited than for light and medium grades of oil, making it more susceptible to supply and demand fluctuations. These factors all contribute to price differentials. Future price differentials are uncertain and any widening in heavy oil differentials specifically could have an adverse effect on MEG's results of operations, financial condition and prospects.

MEG conducts an assessment of the carrying value of its assets to the extent required by IFRS. If crude oil prices decline or differentials widen, the carrying value of MEG's assets could be subject to downward revision, and MEG's earnings could be adversely affected by any reduction in such carrying value.

### ***COVID-19 Pandemic and Related Impacts***

The COVID-19 pandemic has affected, and may materially and adversely affect, our business, operating and financial results and liquidity. The severity, magnitude and duration of the COVID-19 pandemic remains uncertain and continues to be rapidly changing and hard to predict. While the full impact of this virus and the long-term worldwide reaction to it and impact from it remains unknown at this time, governmental reaction to the pandemic and restrictions and limitations applied by the government as a result, continued widespread growth in infections, travel restrictions, quarantines, or site closures as a result of the virus could, among other things, impact the ability of our employees and contractors to perform their duties, cause increased technology and security risk due to extended and company-wide telecommuting, lead to disruptions in our supply chain (including necessary contractors), increase the risk that oil storage could reach capacity in Canada and the U.S. Gulf Coast as a result of decreased demand, lead to a disruption in our resource acquisition or permitting activities and cause disruption in our relationship with our customers.

Additionally, the COVID-19 pandemic has significantly impacted economic activity and markets around the world, and COVID-19 or another similar outbreak could negatively impact our business in numerous ways, including, but not limited to, the following:

- our revenue may be reduced if the pandemic results in an economic recession, as many experts predict, to the extent it leads to a prolonged decrease in the demand for crude oil, bitumen and bitumen blends;
- our operations may be disrupted or impaired, thus lowering our production level, if a significant portion of our employees or contractors are unable to work due to illness or if our operations are suspended or temporarily shut-down or restricted due to control measures designed to contain the pandemic; and
- our sole operating facility at Christina Lake is subject to risks relating to a temporary suspension or physical interruption of its operations in the event an employee or contractor at our Christina Lake site becomes infected with COVID-19, as it could place our entire site workforce at risk.

In addition, the COVID-19 pandemic has increased volatility and caused negative pressure in the capital and credit markets. As a result, we may experience difficulty accessing the capital or financing needed to fund our operations, which have substantial capital requirements, or refinance our upcoming debt maturities on satisfactory terms or at all. We anticipate funding capital expenditures with existing cash and cash generated by operations (which is subject to a number of variables, including many beyond our control) and, to the extent our capital expenditures exceed our cash resources, from borrowings under our Credit Facility and other external sources of capital, we could be required to curtail our operations and the development of our properties, which in turn could adversely affect our business, results of operations and financial position.

### ***General Economic Conditions, Business Environment and Other Risks***

The business of the Corporation is subject to general economic conditions. Adverse changes in general economic and market conditions could negatively impact demand for crude oil, bitumen and bitumen blends, revenue, operating costs, results of financing efforts, timing and extent of capital expenditures, credit risk and counterparty risk.

Volatility in crude oil, bitumen blend, natural gas and diluent prices, fluctuations in interest rates, product supply and demand fundamentals, market competition, labour market supplies, risks associated with technology, risks of a widespread pandemic, the Corporation's ability to generate sufficient cash flow to meet its current and future obligations, the Corporation's ability

to access external sources of debt and equity capital, general economic and business conditions, the Corporation's ability to make capital investments and the amounts of capital investments, risks associated with potential future lawsuits and regulations, assessments and audits (including income tax) against the Corporation (and its subsidiaries), political and economic conditions in the geographic regions in which the Corporation and its subsidiaries operate, difficulty or delays in obtaining necessary regulatory approvals, a significant decline in the Corporation's reputation, and such other risks and uncertainties, could individually or in the aggregate have a material adverse impact on the Corporation's business, prospects, financial condition, results of operation or cash flows. Challenging market conditions and the health of the economy as a whole may have a material adverse effect on the Corporation's results of operations, financial condition and prospects. There can be no assurance that any risk management steps taken by the Corporation with the objective of mitigating the foregoing risks will avoid future loss due to the occurrence of such risks.

### ***Volatility of Commodity Inputs***

The nature of the Corporation's operations results in exposure to fluctuations in bitumen, diluent and gas prices. Natural gas is a significant component of the Corporation's cost structure, as it is used to generate steam for the SAGD process and to create electricity at the Corporation's cogeneration facility. Diluent, such as condensate, is also one of the Corporation's significant commodity inputs and is used as part of MEG's product marketing strategy and to decrease the viscosity of the bitumen in order to allow it to be transported.

Historically, crude oil and electricity prices have been positively correlated with the prices of condensate and natural gas. As a result, the Corporation expects to be able to offset a portion, or all, of the increase in its costs associated with an increase in the price of natural gas or condensate with an increase in revenue that results from higher oil prices and electricity sold by the Corporation's cogeneration units. MEG believes that this correlation has been caused by factors that are not within its control, and investors are cautioned not to rely on this correlation continuing. If the prices of these commodities cease to be positively correlated, and the price of crude oil or electricity falls while the prices of natural gas or diluent rise or remain steady, the Corporation's results of operations, financial condition and prospects could be adversely affected.

### ***Variations in Foreign Exchange Rates and Interest Rates***

Most of MEG's revenues are based on the U.S. dollar, since revenue received from the sale of bitumen and bitumen blends is generally referenced to a price denominated in U.S. dollars, and MEG incurs most of its operating and other costs in Canadian dollars. As a result, MEG is impacted by exchange rate fluctuations between the U.S. dollar and the Canadian dollar, and any strengthening of the Canadian dollar relative to the U.S. dollar could negatively impact MEG's operating margins and cash flows. In addition, as MEG reports its operating results in Canadian dollars, fluctuations in product pricing and in the rate of exchange between the U.S. dollar and Canadian dollar affect MEG's reported results.

Further, substantially all of the Corporation's debt, is denominated in U.S. dollars. Fluctuations in exchange rates and interest rates may significantly increase or decrease the amount of debt and interest expense recorded on the Corporation's financial statements, which could have a significant effect on the Corporation's results of operations and financial condition.

### ***Hedging Strategies***

The Corporation uses physical and financial instruments to hedge its exposure to fluctuations in commodity prices, exchange rates and interest rates. Engagement by the Corporation in such hedging activities could expose it to credit related losses in the event of non-performance by counterparties to the physical or financial instruments. Additionally, if bitumen, diluent or gas prices, interest rates or exchange rates increase above or decrease below those levels specified in any hedging agreements, such hedging arrangements may prevent the Corporation from realizing the full benefit of such increases or decreases. In addition, any future commodity hedging arrangements could cause the Corporation to suffer financial loss, if it is unable to produce sufficient quantities of the commodity to fulfill its obligations, if it is required to pay a margin call on a hedge contract or if it is required to pay royalties based on a market or reference price that is higher than the Corporation's fixed ceiling price.

To the extent that risk management activities and hedging strategies are employed to address commodity prices, exchange rates, interest rates or other risks, risks associated with such activities and strategies, including (without limitation)



counterparty risk, settlement risk, basis risk, liquidity risk and market risk, could impact or negate such activities and strategies, which would have a negative impact on MEG's results of operations, financial position and prospects.

### ***Global Financial Markets***

The market events and conditions that transpired in recent years in connection with the global financial crisis, including disruptions in the international credit markets and other financial systems and the deterioration of global economic conditions, have, among other things, caused significant volatility in commodity prices. These events and conditions caused a loss of confidence in the broader U.S., European Union and global credit and financial markets and resulted in the collapse of, and government intervention in, numerous major banks, financial institutions and insurers, and created a climate of greater volatility, less liquidity, widening of credit spreads, a lack of price transparency, increased credit losses and tighter credit conditions. Notwithstanding various actions by governments, concerns about the general condition of the capital markets, financial instruments, banks, investment banks, insurers and other financial institutions caused the broader credit markets to further deteriorate and stock markets to decline substantially. These factors negatively impacted enterprise valuations and impacted the performance of the global economy. A new global financial crisis may exacerbate these market events and conditions.

Petroleum prices are expected to remain volatile for the near future as a result of market uncertainties regarding the supply and demand fundamentals for petroleum products due to the current state of the world's economies, actions taken by the Organization of the Petroleum Exporting Countries, and the ongoing risks facing the North American and global economies and new supplies of crude oil which may be created by the application of new drilling technology to unconventional resource plays. It is possible that petroleum prices could move lower or could remain near current price levels for a considerable period of time.

### ***Climate Change Risks***

Climate change may introduce new risks to the Corporation's business including both physical risks and transitional risks.

#### ***Transitional Risks***

Transitional risks include a broader set of risks associated with a global transition to a less carbon-intensive economy. A negative impact from transitional risks could result in loss of customers, revenue loss, delays in obtaining regulatory approvals for pipelines and other projects, increased operating, capital, financing or regulatory costs, diminished shareholder confidence, continuing changes to laws and regulations affecting the Corporation's business or erosion or loss of public support towards the hydrocarbon-based energy sector.

#### ***Policy and Legal Risks***

Negative consequences which could arise as a result of changes to the current and emerging regulatory environment include, but are not limited to, changes in environmental and emissions regulation of current and future projects by governmental authorities, which could result in changes to facility design and operating requirements, potentially increasing the cost of construction, operation and abandonment. Policy and legal risks are further discussed under the heading Environmental Considerations below.

#### ***Marketing Risks***

Negative impacts from transitional risks and physical risks could result in constrained egress out of western Canada which could impact the Corporation's operating results. In terms of reputational risk, negative public perception of the Alberta oil sands could result in delays in obtaining regulatory approvals for pipelines and other projects increasing competition for market access. Future legislation or policies that limit the purchase of crude oil or bitumen produced from the oil sands may be adopted in domestic and/or foreign jurisdictions, which, in turn, may limit the world market for this crude oil, reduce its price and may result in stranded assets or an inability to further develop oil resources. In terms of physical risk, potential increases in extreme weather events may impede operation of pipelines, storage infrastructure as well as refineries.



## ***Reputational Risks***

Reputational risks include numerous factors which could negatively affect the Corporation's reputation, including general public perceptions of the energy industry, negative publicity relating to pipeline incidents, unpopular expansion plans or new projects, opposition from organizations and populations opposed to fossil fuels development, specifically oil sands projects and pipeline projects, including expansions thereof.

Negative public perceptions of the Alberta oil sands, where our thermal oil productions operations are located, may impair the profitability of our current or future oil sands projects.

Development of the Alberta oil sands has received considerable attention on the subjects of environmental impact, climate change, GHG emissions and Indigenous engagement. The influence of anti-fossil fuels activists (with a focus on oil sands) targeting equity and debt investors, lenders and insurers may result in policies which reduce support for or investment in the Alberta oil sands sector. Concerns about oil sands may, directly or indirectly, impair the profitability of our current oil sands projects, and the viability of future oil sands projects, by creating significant regulatory uncertainty leading to uncertainty in economic modeling of current and future projects and delays relating to the sanctioning of future projects. In addition, evolving decarbonization policies of institutional investors, lenders and insurers could affect the Corporation's ability to access capital pools. Certain insurance companies have taken actions or announced policies to limit available coverage for companies which derive some or all of their revenue from the oil sands sector. As a result of these policies, premiums and deductibles for some or all of the Corporation's insurance policies could increase substantially. In some instances, coverage may become unavailable or available only for reduced amounts of coverage. As a result, the Corporation may not be able to extend or renew existing policies, or procure other desirable insurance coverage, either on commercially reasonable terms, or at all.

## ***Technology Risks***

The Corporation's long-term goal of reaching net-zero emissions which is inherently uncertain due to the potentially long time frame and certain factors outside of the Corporation's control, including the availability and cost effectiveness of current and future emissions reductions technologies is subject to numerous risks and uncertainties. The Corporation's actions taken in implementing such a target may expose the Corporation to certain additional and/or heightened financial and operational risks.

Technological advancements and innovations associated with the global transition to a less carbon-intensive economy may impact the demand for the Corporation's products. This may include the advancement of alternative energy supplies and carbon performance of petroleum competitors.

## ***Physical Risks***

Physical risks associated with climate change may include chronic physical risks such as severe changes to seasonal weather patterns and the corresponding effects of seasonal conditions and temperatures or acute physical risks which include catastrophic events such as fires, lightning, extreme cold weather, or storms, any of which may impact the Corporation's operations.

## ***ESG Related Goals***

All of the Corporation's climate-related goals, including those related to GHG emissions, and others associated with diversity, relationships with stakeholders, including Indigenous stakeholders and wildlife habitat reclamation depend significantly on the Corporation's ability to execute its current business strategy, which can be impacted by the numerous risks and uncertainties associated with the Corporation's business and other industry factors. There is a risk that some or all of the expected benefits and opportunities of achieving some or all of the Corporation's climate-related goals may fail to materialize, may cost more to achieve or may not occur within anticipated or stated timeframes. In addition, there are risks that the actions taken by the Corporation in implementing these goals, and in making efforts to achieve such goals, may have a negative impact on the Corporation's business, including adverse impacts on operations or increased costs and capital expenditures, which may in turn negatively impact our future operating and financial results.

## ***Environmental and Regulatory Risks***

### ***Environmental considerations***

The operations of the Corporation are, and will continue to be, affected in varying degrees by federal and provincial laws and regulations regarding the protection of the environment. Should there be changes to existing laws or regulations, the Corporation's competitive position within the thermal oil industry may be adversely affected, and many industry participants have greater resources than the Corporation to adapt to legislative changes.

No assurance can be given that future environmental approvals, laws or regulations will not adversely impact the Corporation's ability to develop and operate its oil sands projects, increase or maintain production or control its costs of production. Equipment which can meet future environmental standards may not be available on an economic or timely basis and instituting measures to ensure environmental compliance in the future may significantly increase operating costs or reduce output. There is a risk that the federal and/or provincial governments could pass future legislation that would progressively increase tax on air emissions (specifically greenhouse gases) or require, directly or indirectly, reductions in air emissions produced by energy industry participants, which the Corporation may be unable to mitigate.

All phases of the thermal oil business present environmental risks and hazards and are subject to environmental legislation and regulation pursuant to a variety of federal, provincial and local laws and regulations. Environmental legislation provides for, among other things, permit requirements, restrictions and prohibitions on spills, releases or emissions of various substances produced in association with oil sands operations and restrictions on water usage and land disruption. The legislation also requires that wells and facility sites be constructed, operated, maintained, abandoned and reclaimed to the satisfaction of applicable regulatory authorities. Compliance with such legislation can require significant expenditures and a breach of applicable environmental legislation may result in the imposition of fines and penalties, some of which may be material. The discharge of oil, natural gas or other pollutants into the air, soil or water may give rise to liabilities to governments and third parties and may require the Corporation to incur costs to remedy such discharge.

There has also been increased activism relating to climate change and public opposition to fossil fuels. The federal government and certain provincial governments in Canada have responded to these shifting societal attitudes by adopting ambitious emissions reduction targets and supporting legislation, including measures relating to carbon pricing, clean energy, field and emission standards, and alternative energy incentives and mandates. Concerns over climate change, fossil fuel extraction, GHG emissions, and water and land-use practices could lead governments to enact additional or more stringent laws and regulations applicable to the Corporation and other companies in the energy industry in general. Environmental legislation is evolving in a manner expected to result in stricter standards and enforcement, larger fines and liability and potentially increased capital expenditures and operating costs, and both the federal government and the Government of Alberta imposed more stringent environmental legislation that affects the thermal oil production industry. In addition, there is a risk that the federal and/or provincial governments could pass legislation that would tax air emissions or require, directly or indirectly, reductions in air emissions produced by energy industry participants, which the Corporation may be unable to mitigate. Should there be changes to existing laws or regulations, the Corporation's competitive position within the thermal oil production industry may be adversely affected.

No assurance can be given that future environmental approvals, laws or regulations will not adversely impact the Corporation's ability to develop and operate its thermal oil production projects or increase or maintain production or control its costs of production. Changes to environmental regulations, including regulation relating to climate change, could impact the demand or pricing for the Corporation's products, or could require increased capital expenditures, operating expenses, abandonment and reclamation obligations and distribution costs, which may not be recoverable in the marketplace and which may result in current operations or growth projects becoming less profitable or uneconomic. Equipment which can meet future environmental standards may not be available on an economic or timely basis and instituting measures to ensure environmental compliance in the future may significantly increase operating costs or reduce output.

Any requirement to develop or implement new technology in response to future environmental standards could require a significant investment of capital and resources, and any delay in or failure to identify, develop and implement such technologies could prevent the Corporation from being able to operate profitably or being able to successfully compete with other companies.

No assurance can be given that environmental laws and regulations will not result in a curtailment of production or a material increase in the costs of production, development or exploration activities or otherwise have a material adverse effect on the Corporation's results of operations, financial condition and prospects. The Corporation believes that it is reasonably likely that the trend towards stricter standards in environmental legislation will continue and anticipates that capital and operating costs may increase as a result of more stringent environmental laws.

### *Greenhouse Gas Regulations*

The direct and indirect costs of the various GHG regulations, current and emerging in both Canada and the United States, including any limits on oil sands emissions and the Canadian federal government's implementation of the Paris Agreement through the Greenhouse Gas Pollution Act, the Clean Fuel Standard, the Alberta Technology Innovation and Emissions Reduction ("TIER") regulation and any other federal or provincial carbon emission pricing system, may adversely affect MEG's business, operations and financial results. New or additional carbon taxes or similar costs could significantly increase operating costs or reduce output. Equipment that meets future GHG emission standards may not be available on an economic basis and other compliance methods to reduce emissions or emissions intensity to future required levels may significantly increase operating costs or reduce the output of the projects. Offset, performance or fund credits may not be available for acquisition or may not be available on an economical basis. Any failure to meet GHG emission reduction compliance obligations may have a material adverse effect on the Corporation's business and result in fines, penalties and the suspension of operations.

Draft regulations for the Clean Fuel Standard (the "Clean Fuel Regulations") were released in December 2020 and will be open for public comment until March 3, 2021. As proposed, the Clean Fuel Regulations only apply to liquid fuels, not gaseous and solid fuels, and will apply to producers or importers of gasoline, diesel, kerosene and light and heavy fuel oils (referred to as "primary suppliers"). Although the Clean Fuel Regulations, as proposed, do not apply to the Corporation's production of thermal oil, it is possible that, as a result of public comment on the proposed Regulations or otherwise, the Clean Fuel Standard in its final form could impose additional costs to the Corporation's operations, which may have a material adverse effect on the Corporation's results of operations. On December 11, 2020 the Government of Canada released a document entitled A Healthy Environment and a Healthy Economy which outlined 64 new and updated policies and programs to achieve net zero by 2050. This includes a proposal to increase the carbon price by \$15 per year, starting in 2023, up to \$170 per tonne of carbon pollution in 2030. The intent of the price adjustment is to incent cleaner fuel choices and discourage pollution-intensive investments.

Future federal legislation, including the implementation of potential international requirements enacted under Canadian law, as well as provincial legislation and emissions reduction requirements, may require the reduction of GHG or other industrial air emissions, or emissions intensity, from the Corporation's operations and facilities. Mandatory emissions reduction requirements may result in increased operating costs and capital expenditures for oil and natural gas producers. The Corporation is unable to predict the impact of emissions reduction legislation on the Corporation and it is possible that such legislation may have a material adverse effect on MEG's financial condition, results of operations and prospects.

### *Climate-Related Goals*

The Corporation's long-term goal of reaching net-zero emissions (which is inherently uncertain due to the potentially long time frame and certain factors outside of the Corporation's control, including the application of future technologies) is subject to numerous risks and uncertainties. The Corporation's actions taken in implementing such a target may expose the Corporation to certain additional and/or heightened financial and operational risks.

All of the Corporation's climate related goals, including those related to GHG emissions, and others associated with diversity, relationships with stakeholders, including Indigenous stakeholders and environmental performance depend significantly on the Corporation's ability to execute its current business strategy, which can be impacted by the numerous risks and uncertainties associated with the Corporation's business and other industry factors. There is a risk that some or all of the expected benefits and opportunities of achieving some or all of the Corporation's climate-related goals may fail to materialize, may cost more to achieve or may not occur within anticipated or stated timeframes. In addition, there are risks that the actions taken by the Corporation in implementing these goals, and in making efforts to achieve such goals, may have a

negative impact on the Corporation's business, including adverse impacts on operations or increased costs and capital expenditures which may in turn negatively impact our future operating and financial results.

See "Regulatory Matters – Environmental Regulation – Greenhouse Gases and Industrial Air Pollutants".

### ***United States Climate Change Legislation***

Environmental regulation of GHG emissions in the United States could result in increased costs and/or reduced revenue for oil sands companies such as MEG. At the federal level, the U.S. Environmental Protection Agency (the "EPA") is currently responsible for regulating GHG emissions, pursuant to the Clean Air Act. The EPA has issued regulations restricting GHG emissions from automobiles and trucks, and also administers the Renewable Fuel Standard, which requires specified "renewable fuels" to be blended into U.S. transportation fuel, with increasing volumes coming from lower GHG emitting fuels over time. While the future regulatory environment in the United States is uncertain, it is possible that fuel suppliers' GHG emissions will eventually be regulated in the United States, although there are no currently active proposals to that effect. The Corporation's operations may be impacted by such regulation, which could impose increased costs on direct or indirect users of the Corporation's products, and thereby result in reduced demand for and increased costs of use of the Corporation's products.

The Corporation may also be impacted by various state policies which regulate GHG emissions. For example, California's Air Resources Board (ARB) administers two regulatory programs that impact the crude or synthetic crude oil industry: a Low Carbon Fuel Standard (LCFS) and a cap-and-trade program. California's LCFS regulates fuel suppliers based on the "carbon intensity" of their fuel supplied to market, i.e., the GHG emissions associated with the entire lifecycle of the fuel, from extraction to refining to end use. ARB's determination that Canadian synthetic crude has a high carbon intensity imposes certain costs on its use under the LCFS, potentially decreasing demand for such fuel vis-à-vis other less carbon intensive fuel types. Despite a legal challenge claiming that the LCFS improperly discriminated against out-of-state sources of ethanol and crude oil in violation of the Commerce Clause of the United States Constitution, the LCFS was upheld and the United States Supreme Court denied a petition to review the case. California's cap-and-trade program began regulating fuel suppliers in 2015, imposing costs in proportion to the GHG emissions potential of fuel supplied to the California market. Unlike the LCFS, the cap-and-trade program does not involve a lifecycle analysis and accordingly will not have any disproportionate impact on high-carbon-intensity crude or synthetic crude. The further introduction of carbon fuel standards or GHG emission regulations may negatively affect the marketing of bitumen, bitumen blend or SCO, or require the purchase of emissions credits in connection with sales in such jurisdictions.

### ***The Future of GHG Emission Regulations***

GHG emission regulation is expected to have a financial impact on oil sands industry participants and their projects, including MEG and its projects. However, the extent of that impact is not yet known. In particular, there is uncertainty regarding the ultimate GHG emission regulatory regime that will be applicable to thermal oil producers, including MEG, due to, among other things, the potential for changes to the regulation of GHG emissions in Alberta, Canada and the United States and the potential for the harmonization of GHG emission regulatory regimes in Canada and the United States.

At present, there is no assurance that any new regulations implemented by the Government of Canada relating to the reduction of GHG emissions will be harmonized with regulations implemented by the Government of Alberta. In such case, the costs of meeting new federal government requirements could be considerably higher than the costs of meeting Alberta's requirements. The Government of Alberta challenged the constitutionality of the federal carbon emission pricing system, and the Alberta Court of Appeal found the federal system to be unconstitutional. Appeals of this decision, along with appellate court decisions in both Ontario and Saskatchewan, which found the federal system to be constitutional, were heard by the Supreme Court of Canada ("SCC") in September 2020; however, as of January 31, 2021, the SCC's decision has not yet been issued.

### ***Proposed Import Restrictions***

Some foreign jurisdictions, including the State of California have attempted to introduce carbon fuel standards that require a reduction in life cycle GHG emissions from vehicle fuels. Some standards propose a system to calculate the life cycle of GHG emissions of fuels to permit the identification and use of lower-emitting fuels.

Any foreign import restrictions or financial penalties imposed on the use of bitumen or bitumen blend products may restrict the markets in which the Corporation may sell its bitumen and bitumen blend products and/or result in the Corporation receiving a lower price for such products.

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

The Corporation will need to comply with the terms and conditions of environmental and regulatory approvals and all laws and regulations regarding the abandonment of its projects and reclamation of the project lands at the end of their economic life, which will result in substantial abandonment and reclamation costs. Any failure to comply with the terms and conditions of the Corporation's approvals and such legislation and/or regulations may result in the imposition of fines and penalties.

It is not possible at this time to estimate abandonment and reclamation costs reliably since they will, in part, depend on future regulatory requirements. In addition, in the future, the Corporation may determine it prudent or be required by applicable laws, regulations or regulatory approvals to establish and fund one or more reclamation funds to provide for payment of future abandonment and reclamation costs. If the Corporation establishes a reclamation fund, its liquidity and cash flow may be adversely affected.

### ***Regulatory Approvals and Compliance***

The construction, operation and decommissioning of the Christina Lake Project and MEG's other projects are and will be conditional upon various environmental and regulatory approvals, permits, leases and licenses issued by governmental authorities, including but not limited to the approval of the AER and the Alberta Ministry of Environment and Parks. There can be no assurance such approvals, permits, leases and licenses will be granted, or, once granted or renewed, that they will subsequently be renewed or will not be cancelled or contain terms and conditions which make the Christina Lake Project, or MEG's other projects uneconomic, or cause the Corporation to significantly alter the Christina Lake Project or MEG's other projects. Further, the construction, operation and decommissioning of the Christina Lake Project and MEG's other projects will be subject to regulatory approvals and statutes and regulations relating to environmental protection and operational safety. There can be no assurance that third parties will not object to the development of such projects during applicable regulatory processes.

Although the Corporation believes that the Christina Lake Project and its other projects are or will be in general compliance with applicable environmental and safety regulatory approvals, statutes and regulations, risks of substantial costs and liabilities are inherent in oil sands operations and there can be no assurance that substantial costs and liabilities will not be incurred or that the Christina Lake Project or the Corporation's other projects will be permitted to carry on operations. Moreover, it is possible that other developments, such as increasingly strict environmental and safety statutes, regulations and enforcement policies thereunder, and claims for damages to property or persons resulting from the operations of the projects, could result in substantial costs and liabilities to the Corporation or delays to or abandonment of the Christina Lake Project or MEG's other projects.

### ***Additional Regulation and Regulatory Compliance***

The oil and gas industry in Canada, including the oil sands industry, operates under Canadian federal, provincial and municipal legislation and regulations governing such matters as land tenure, lease extensions, aboriginal consultation, prices, royalties, taxes, production rates, environmental protection controls, operating practices, income, the production, transportation, sale and export of crude oil, natural gas and other products, the use of subsurface water, land use, expropriation and other matters. In addition, there are many international rules, regulations and requirements relating to the shipping of oil and gas products, via land or sea.

Government regulations may be changed from time to time in response to economic or political conditions. The exercise of discretion by governmental authorities under existing regulations, the implementation of new regulations or the modification of existing regulations affecting the oil sands industry may adversely affect MEG's business, operations and financial results.

The introduction of new regulations, including regulations modifying safety standards for rail tank cars used to transport crude oil, could adversely affect the timing of planned crude oil shipments by rail, the Corporation's ability to ship crude oil by rail and the economics of shipping crude oil by rail.

## ***Other Risks Affecting the Corporation's Business***

### ***Reliance on, Competition for, Loss of, and Failure to Attract Key Personnel and Labour Force***

The Corporation's success depends in large measure on certain key personnel. The loss of the services of such key personnel may have a material adverse effect on its business, financial condition, results of operations and prospects. The Corporation does not have any key person insurance in effect. The contributions of the existing management team to the Corporation's immediate and near term operations are likely to be of central importance and the competition for qualified personnel in the oil and natural gas industry is intense. Investors must rely upon the ability, expertise, judgment, discretion, integrity and good faith of management of the Corporation.

The design, development and construction of, and commencement or continuation of operations at, the Christina Lake Project (as applicable), and MEG's other projects will require experienced executive, management and technical personnel and operational employees and contractors with expertise in a wide range of areas. The labour force in Alberta, and in the surrounding area, is limited and there can be no assurance that all of the required employees with the necessary expertise will be available. Other oil sands projects or expansions will proceed in the same time frame as MEG's projects. MEG's projects will compete with these other projects for experienced employees and such competition may result in increases to compensation paid to such personnel or a lack of qualified personnel. Increased labour costs would adversely affect MEG's results of operations, financial condition and prospects.

### ***Conflicts of Interest***

Some of the Corporation's directors and officers are engaged and will continue to be engaged in the oil and gas business on their own behalf and on behalf of others, and situations may arise where the directors and officers will be in direct or indirect competition with MEG. For example, these directors or officers could pursue acquisition opportunities that may be complementary to MEG's business and, as a result, those acquisition opportunities may not be available to MEG. Conflicts of interest, if any, which arise will be subject to and be governed by procedures prescribed by the ABCA which require a director or officer of a corporation who is party to a material contract or proposed material contract with the Corporation to disclose such director's or officer's interest and, with respect to a director, to refrain from voting on any matter in respect of such contract unless otherwise permitted under the ABCA.

### ***Changes to Tax Laws and Government Incentive Programs***

Income tax laws or government incentive programs relating to the oil and gas industry and in particular the oil sands sector may in the future be changed or interpreted in a manner that adversely affects MEG's result of operations, financial condition or prospects.

### ***Management Estimates and Assumptions***

In preparing consolidated financial statements in conformity with IFRS, estimates and assumptions are used by management in determining the reported amounts of assets and liabilities, revenues and expenses recognized during the periods presented and disclosures of contingent assets and liabilities known to exist as of the date of the financial statements. These estimates and assumptions must be made because certain information that is used in the preparation of such financial statements is dependent on future events, cannot be calculated with a high degree of precision from data available, or is not capable of being readily calculated based on generally accepted methodologies. In some cases, these estimates are particularly difficult to determine and the Corporation must exercise significant judgment. Estimates may be used in management's assessment of items such as depletion, depreciation and accretion, fair values, useful lives of assets, deferred income taxes, stock based compensation, estimates of reserves, derivative financial instruments, decommissioning obligations, leases and onerous contracts. Actual results for all estimates could differ materially from the estimates and assumptions used by the Corporation, which could have a material adverse effect on MEG's financial condition, results of operations and prospects.



## *Internal Controls*

Effective internal controls are necessary for the Corporation to provide reliable financial reports and to help prevent fraud. Although the Corporation undertakes a number of procedures in order to help ensure the reliability of its financial reports, including those imposed on it under Canadian securities laws, the Corporation cannot be certain that such measures will ensure that the Corporation will maintain adequate control over financial processes and reporting. Failure to implement required new or improved controls, or difficulties encountered in their implementation, could impact the Corporation's results of operations or cause it to fail to meet its reporting obligations. If the Corporation or its independent auditors discover a material weakness, the disclosure of that fact, even if quickly remedied, could reduce the market's confidence in the Corporation's financial statements and reduce the trading price of the Common Shares.

## *Political Risks and Terrorist Attacks*

The marketability and price of bitumen is and will continue to be affected by political events throughout the world that cause disruptions in the supply of oil. Conflicts, or conversely peaceful developments, arising in the Middle East, and other areas of the world, have a significant impact on the price of oil. Any particular event could result in a material decline in prices and therefore could have a material adverse effect on the Corporation's results of operations, financial condition and prospects.

In addition, the long-term impact of previous terrorist attacks and the threat of future terrorist attacks on the oil and gas industry in general, and on facilities for the transportation and refinement of oil and gas in particular, is not known at this time. The possibility that infrastructure and other facilities, such as pipelines, terminals and refineries, may be direct targets of, or indirect casualties of, an act of terror and the implementation of security measures which may be taken as a precaution against possible terrorist attacks have resulted in, and are expected to continue to result in, increased costs to the Corporation's business. Furthermore, any interruption in the services provided by infrastructure on which the Corporation relies (such as the Access Pipeline) as a result of a terrorist attack would have a material adverse effect on the Corporation's results of operations, financial condition and prospects.

## *Credit Ratings*

The Corporation could experience downgrades to its credit ratings. In addition, in the event of any significant downgrade, certain of the Corporation's service providers, including its pipeline providers and condensate vendors, may require the Corporation to post incremental collateral or provide other assurances of the Corporation's ability to perform its obligations under its contracts with such providers, which could negatively affect the Corporation's financial liquidity.

## *Cybersecurity*

The Corporation's operations may be negatively impacted by a cybersecurity incident. MEG uses forms of information technology in its operations and such use creates various cybersecurity threats including the possibility of security breaches, operational disruptions and the release of non-public information (such as financial data, supplier and customer information and employee information). Although MEG has taken various steps to protect itself against such risks, its efforts may not always be successful, especially because of the rapidly changing nature of such cybersecurity threats. Any increase in the number of personnel working remotely in response to the COVID-19 pandemic, may enhance the risks associated with cybersecurity threats. In the event of a cybersecurity incident, MEG's operations could be disrupted resulting in potential loss of customers, violation of laws and additional liabilities to the business.

## ***Risks Relating to Financing and the Corporation's Indebtedness***

### *Restrictions Contained in Credit Facility, Notes and Debt Service Obligations*

MEG's indebtedness contains certain restrictions, including mandatory prepayment obligations. For example, upon the occurrence of any event of default under the Credit Facility and the EDC Guaranteed L/C Facility, MEG's lenders and other secured parties could elect to declare all amounts outstanding thereunder, together with accrued interest, to be immediately due and payable and to terminate any commitments to extend further credit. If the lenders and other secured parties under



the Credit Facility and the EDC Guaranteed L/C Facility accelerate the payment of the indebtedness outstanding thereunder, MEG's assets may not be sufficient to repay in full that indebtedness and MEG's other indebtedness.

The restrictions in the Credit Facility, the EDC Guaranteed L/C Facility and the indentures governing the Notes may adversely affect MEG's ability to finance its future operations and capital needs and to pursue available business opportunities. Moreover, any new indebtedness MEG incurs may impose financial restrictions and other covenants on MEG that may be more restrictive than the Credit Facility, the EDC Guaranteed L/C Facility and the indentures governing the Notes.

The Corporation's indebtedness could materially and adversely affect it in a number of ways. For example, it could:

- require the Corporation to dedicate a portion of its cash flow to service payments on its indebtedness, thereby reducing the availability of cash flow to fund working capital, capital expenditures, development efforts and other general corporate purposes;
- increase the Corporation's vulnerability to general adverse economic and industry conditions;
- limit the Corporation's flexibility in planning for, or reacting to, changes in its business and the industry in which it operates;
- place the Corporation at a competitive disadvantage compared to its competitors that have less debt;
- expose the Corporation to the risk of increased interest rates as the Credit Facility and the EDC Guaranteed L/C Facility are at variable rates of interest; and
- limit the Corporation's ability to borrow additional funds to meet its operating expenses and for other purposes.

The Corporation may not generate sufficient cash flow and may not have available to it future borrowings in an amount sufficient to enable it to make payments with respect to its indebtedness or to fund its other capital needs. In these circumstances, the Corporation may need to refinance all or a portion of its indebtedness on or before maturity. Without such financing, the Corporation could be forced to sell assets or secure additional financing to make up for any shortfall in its payment obligations under unfavorable circumstances. However, the Corporation may not be able to raise additional capital or secure additional financing on terms favourable to it or at all, and the terms of the Credit Facility, the EDC Guaranteed L/C Facility, certain other permitted obligations and the indentures governing the Notes may limit its ability to sell assets and also restrict the use of proceeds from such a sale.

### *Additional Indebtedness*

Despite MEG's current level of indebtedness, it may still be able to incur substantially more debt, which could further exacerbate the risks associated with MEG's substantial indebtedness.

## **LEGAL PROCEEDINGS AND REGULATORY ACTIONS**

Except as described below, during the year ended December 31, 2020, there were no legal proceedings to which the Corporation is or was a party, or that any of the Corporation's property is or was the subject of, which is or was, or can be reasonably considered to be, material to the Corporation or any of its properties and the Corporation is not aware of any such legal proceedings that are contemplated. For the purposes of the foregoing, a legal proceeding is not considered to be "material" by the Corporation if it involves a claim for damages and the amount involved, exclusive of interest and costs, does not exceed 10% of the Corporation's current assets, provided that if any proceeding presents in large degree the same legal and factual issues as other proceedings pending or known to be contemplated, the Corporation has included the amount involved in the other proceedings in computing the percentage.

During the year ended December 31, 2020, there were no penalties or sanctions imposed against the Corporation by a court relating to securities legislation or by a securities regulatory authority, nor have there been any other penalties or sanctions imposed by a court or regulatory body against the Corporation that would likely be considered important to a reasonable investor in making an investment decision, and it has not entered into any settlement agreements before a court relating to securities legislation or with a securities regulatory authority.

From time to time, the Corporation is the subject of litigation arising out of the normal course of operations. Damages claimed under such litigation may be material and the outcome of such litigation can be difficult to predict and may materially impact the Corporation's financial condition or results of operations. While the Corporation assesses the merits of each lawsuit and defends itself accordingly, the Corporation may be required to incur significant expenses or devote significant resources to defend itself against such litigation. See "Risk Factors".

MEG is the defendant in an action brought by Chemtrade Electrochem Inc. ("Chemtrade"), a wholly owned subsidiary of Chemtrade Logistics Income Fund (and successor entity to Canexus Corporation) in the Alberta Court of Queen's Bench. The claim was originally filed in 2014 in relation to legacy issues involving a unit train transloading facility. Amendments to the original claim were filed on December 12, 2017. MEG filed a statement of defence on January 8, 2018. Although the amended claim asserts a significant increase to damages claimed, MEG, in consultation with its legal advisors, continues to view this claim, and the recent amendments, as without merit and will defend against all claims asserted by Chemtrade. MEG may be required to incur significant expenses or devote significant resources to defend itself against the claim.

## INTERESTS OF MANAGEMENT AND OTHERS IN MATERIAL TRANSACTIONS

Except as disclosed under the heading "Transactions with Related Parties" in the Corporation's Management's Discussion and Analysis for the year ended December 31, 2020 which can be found on SEDAR at [www.sedar.com](http://www.sedar.com), no director or executive officer of the Corporation, or person or company that beneficially owns, or controls or directs, directly or indirectly, more than 10% of any class or series of the Corporation's outstanding voting securities, or associate or affiliate of those persons or companies, has any material interest, direct or indirect, in any transaction within the last three most recently completely financial years or during the current financial year that has materially affected or is reasonably expected to materially affect the Corporation.

## INTERESTS OF EXPERTS

The Corporation's auditors are PricewaterhouseCoopers LLP, Chartered Professional Accountants, who have prepared an independent auditors' report dated March 3, 2021 in respect of the Corporation's consolidated financial statements as at December 31, 2020 and 2019 and its financial performance and its cash flows for each of the years then ended. PricewaterhouseCoopers LLP has advised that they are independent with respect to the Corporation within the meaning of the rules of professional conduct of the Canadian Institute of Chartered Professional Accountants. GLJ prepared the GLJ Report, referenced herein. As of the date of the GLJ Report, the principals of GLJ, as a group, owned beneficially, directly or indirectly, less than one percent of the outstanding Common Shares. GLJ did not receive nor will they receive any interest, direct or indirect, in any securities or other property of the Corporation or its affiliates in connection with the preparation of the GLJ Report.

## TRANSFER AGENT AND REGISTRAR

The transfer agent and registrar for the Common Shares is Computershare Investor Services Inc. at its principal offices in Calgary, Alberta and Toronto, Ontario.

## MATERIAL CONTRACTS

The only contract material to the Corporation, other than contracts entered into in the ordinary course of business, entered into during the most recently completed financial year or before the most recently completed financial year that is still in effect is the Shareholder Rights Plan Agreement described under the heading "Description of Capital Structure – Common Shares".

## ADDITIONAL INFORMATION

Additional information relating to the Corporation is available via SEDAR at [www.sedar.com](http://www.sedar.com).

Additional information including directors' and officers' remuneration and indebtedness, principal holders of the Corporation's securities and securities authorized for issuance under equity compensation plans will be contained in the Corporation's information circular for its next annual general meeting of shareholders that involves the election of directors. Additional financial information is contained in the Corporation's audited consolidated financial statements and Management's Discussion and Analysis for the year ended December 31, 2020.

## GLOSSARY AND DEFINITIONS

In this Annual Information Form, unless otherwise indicated or the context otherwise requires, the following terms shall have the meanings set forth below:

**"2013 Notes"** means the 7.0% Senior Notes due 2024, issued pursuant to an indenture dated as of October 1, 2013 and a supplemental indenture dated November 6, 2013, among MEG, the guarantor party thereto and Wilmington Trust, National Association, as trustee.

**"2020 Notes"** means the 7.125% Senior Notes due 2027, issued pursuant to an indenture dated as of January 31, 2020 among MEG, the guarantor party thereto and Wilmington Trust National Associate as trustee.

**"2021 Notes"** means the 5.875% Senior Notes due 2029, issued pursuant to an indenture dated as of February 2, 2021 among MEG, the guarantor party thereto and Wilmington Trust National Associate as trustee.

**"3D seismic data"** means three-dimensional seismic data, being geophysical data that depicts the subsurface strata in three dimensions. 3D seismic data typically provides a more detailed and accurate interpretation of the subsurface strata than 2D seismic data.

**"ABCA"** means the *Business Corporations Act* (Alberta), as amended, including the regulations promulgated thereunder.

**"Access Pipeline"** means the 215-mile dual pipeline system, which connects the Christina Lake Project to the Stonefell Terminal and to a large regional upgrading, refining, diluent supply and transportation hub in the Edmonton, Alberta area and includes the Sturgeon Terminal.

**"AEP"** means Alberta Environment and Parks.

**"AER"** means the Alberta Energy Regulator.

**"API"** means the American Petroleum Institute.

**"API gravity"** means the American Petroleum Institute gravity, which is a measure of how heavy or light a petroleum liquid is compared to water. If a petroleum liquid's API gravity is greater than 10, it is lighter and floats on water; if less than 10, it is heavier than water and sinks. API gravity is thus a measure of the relative density of a petroleum liquid and the density of water, but it is used to compare the relative densities of petroleum liquids.

**"Audit Committee"** means the audit committee of the Board.

**"AWB"** means Access Western Blend.

**"best estimate"** has the meaning given to that term under the subheading "Aggregated Contingent Resources Estimates" within Appendix D.

**"bitumen"** means a naturally occurring viscous mixture consisting mainly of pentanes and heavier hydrocarbons. Its viscosity is greater than 10,000 milliPascal seconds (centipoise) measured at original temperature in the reservoir and atmospheric pressure, on a gas-free basis. Crude bitumen may contain sulphur and other non-hydrocarbon compounds.

**"BMO Letter of Credit Agreement"** means the Amended and Restated Credit Agreement dated as of December 15, 2014 and amended and restated as of July 30, 2019 between the Corporation and Bank of Montreal, as amended, restated, modified or supplemented from time to time.

"**Board**" or "**Board of Directors**" means the board of directors of the Corporation.

"**Bruderheim Terminal**" means the pipeline connected unit train transloading facility owned and operated by Bruderheim Energy Terminal Ltd., a wholly-owned subsidiary of Cenovus.

"**Christina Lake Project**" means MEG's *in situ* thermal energy project located in the Province of Alberta as described in greater detail under the heading "Christina Lake Project".

"**COGE Handbook**" means the Canadian Oil and Gas Evaluation Handbook prepared jointly by The Society of Petroleum Evaluation Engineers (Calgary Chapter) and the Canadian Institute of Mining, Metallurgy & Petroleum (Petroleum Society), as amended from time to time.

"**Common Shares**" means the common shares in the capital of the Corporation.

"**contingent resources**" has the meaning given to that term under the subheading "Aggregated Contingent Resources Estimates" within Appendix D.

"**Credit Facility**" means the Corporation's senior secured credit facility comprised of a CAD\$800 million revolving credit facility, as may be further amended, restated or replaced from time to time.

"**diluent**" means lighter viscosity petroleum products that are used to dilute bitumen for transportation in pipelines.

"**EDC**" means Export Development Canada.

"**EDC Guarantee**" means the Performance Security Guarantee Issuance and Indemnity Agreement dated as of December 15, 2014 between the Corporation and Export Development Canada, as amended, modified or supplemented from time to time.

"**EDC Guaranteed L/C Facility**" means, collectively, the EDC Guarantee and the BMO Letter of Credit Agreement, as amended, modified or supplemented from time to time.

"**eMSAGP**" means the Corporation's proprietary reservoir technology of enhanced Modified Steam and Gas Push, which involves the injection of non-condensable gas into the SAGD reservoir.

"**eMVAPEX**" means the Corporation's proprietary recovery process known as enhanced modified vapour extraction which involves the injection of solvent into the SAGD reservoir.

"**EPA**" means the United States Environmental Protection Agency.

"**ERCB**" means the Energy Resources Conservation Board of Alberta, a predecessor to the AER.

"**ESRD**" means Alberta Environment and Sustainable Resource Department, a predecessor to AEP.

"**GAAP**" means generally accepted accounting principles.

"**GHG**" means greenhouse gas.

"**GLJ**" means GLJ Ltd., an independent qualified reserves and resources evaluator.

"**GLJ Report**" means the report of GLJ dated effective as of December 31, 2020, with a preparation date of February 3, 2021 assessing and evaluating the proved and probable reserves and contingent resources of the Corporation located in the Christina Lake, Surmont, Thornbury and Greater May River areas of Alberta.

"**Growth Properties**" means the thermal oil production leases held by the Corporation in the West Kirby, East Kirby and Portage areas of Alberta, as further described under the heading "Growth Properties".

"**IFRS**" means International Financial Reporting Standards.

**"in situ"** means "in place" and, when referring to oil sands, means a process for recovering bitumen from oil sands by means other than surface mining, such as SAGD.

**"kPa"** means KiloPascal, the metric unit for pressure.

**"LCFS"** means the "Low Carbon Fuel Standard" established by California's Assembly Bill 32 – the *Global Warming Solutions Act of 2006* (AB32).

**"management"** means the executive officers of the Corporation.

**"May River Regional Project"** means the mineral leases held by the Corporation in the Thornbury and Greater May River areas of Alberta, as further described under the heading "May River Regional Project".

**"McMurray Formation"** means a succession of sands and shale deposited in a fluvial estuarine environment that developed into a major valley that was cut into Devonian-aged limestone within the Cretaceous-aged McMurray formation.

**"MEG"** or the **"Corporation"** means MEG Energy Corp., a corporation amalgamated under the ABCA.

**"MEG US"** means MEG Energy (U.S.) Inc., the Corporation's wholly-owned subsidiary incorporated on June 26, 2012 under the Delaware *General Corporation Law*.

**"MW"** means a unit of electrical power to measure the generating capability of a generating station, 1 million Watts equal 1 MW.

**"NI 51-101"** means National Instrument 51-101 – *Standards of Disclosure for Oil and Gas Activities*.

**"NI 52-110"** means National Instrument 52-110 – *Audit Committees*.

**"Notes"** means, collectively, the 2013 Notes, the 2020 Notes, the 2021 Notes and the Second Lien Notes.

**"Phase 1"** means the first phase of the Corporation's Christina Lake Project which commenced production in 2008 with an initial bitumen production design capacity of approximately 3,000 bbls/d.

**"Phase 2"** means the second phase of the Corporation's Christina Lake Project which commenced production in 2009 with an initial bitumen production design capacity of approximately 22,000 bbls/d which utilized existing central processing facilities associated with Phase 1, and primarily expanded well pad drilling and tie-ins to increase production.

**"Phase 2B"** means the third phase of the Corporation's Christina Lake Project which commenced production in 2013 with an initial bitumen production design capacity of approximately 35,000 bbls/d

**"possible reserves"** are those additional reserves that are less certain to be recovered than probable reserves. It is unlikely that the actual remaining quantities recovered will exceed the sum of the estimated proved plus probable plus possible reserves.

**"Preferred Shares"** means the preferred shares, issuable in series, of the Corporation.

**"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.

**"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.

**"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: (i) analysis of drilling, geological, geophysical and engineering data; (ii) the use of established technology; and (iii) specified economic conditions, which are generally accepted as being reasonable. Reserves are classified according to the degree of certainty associated with the estimates.

"**reservoir**" means a subsurface body of rock having sufficient porosity and permeability to store and transmit fluids.

"**Rights Plan**" means the shareholder rights plan established through the Shareholder Rights Plan Agreement.

"**SAGD**" means steam assisted gravity drainage, an *in situ* process used to recover bitumen from oil sands.

"**saturation**" is the fraction or percentage of the pore volume occupied by a specific fluid (e.g., oil, gas, water, etc.).

"**SCO**" or "**synthetic crude oil**" means crude oil produced by upgrading bitumen to a mixture of hydrocarbons similar to light crude oil produced either by the removal of carbon (coking) or the addition of hydrogen through hydrotreating. It is considered synthetic because its original composition mark has been altered in the upgrading process.

"**Second Lien Notes**" means the 6.50% Senior Secured Lien Notes due 2025, issued pursuant to an indenture dated as of January 27, 2017 among MEG, Wilmington Trust, National Association, as trustee, and Computershare Trust Company of Canada, as collateral agent.

"**Shareholder Rights Plan Agreement**" means the shareholder rights plan agreement dated August 6, 2010, as amended and restated from time to time between the Corporation and Olympia Trust Company, as rights agent, and as described under the heading "Description of Capital Structure – Common Shares".

"**shareholders**" means the holders, from time to time, of the Common Shares, collectively or individually, as the context requires.

"**SOR**" means steam to oil ratio.

"**Stonefell Terminal**" means the terminalling and storage facility located approximately three miles east of the Sturgeon Terminal and with a capacity of approximately 900,000 bbls.

"**Surmont Project**" means the potential *in situ* thermal energy project described under the heading "Surmont Project" in this AIF.

"**TSX**" means the Toronto Stock Exchange.

## ABBREVIATIONS

bbl	Barrel
bbls	Barrels
bbls/d	barrels per day
boe	barrels of oil equivalent (on the basis of one being equal to one barrel of oil or six Mcf of natural gas)
Mbbls	thousand barrels
Mbbls/d	thousand barrels per day
MMbbls	million barrels
MMbbls/d	million barrels per day
MMBtu	million British thermal units
Mcf	thousand cubic feet
Tcf	trillion cubic feet
Mtoe	million tonnes oil equivalent
M\$	thousand dollars (Canadian)
MM\$	million dollars (Canadian)
\$	dollars (Canadian)

In this Annual Information Form, certain natural gas volumes have been converted to BOE or MBOE on the basis of six Mcf to one bbl. BOE and MBOE may be misleading, particularly if used in isolation. A BOE conversion ratio of one bbl to six Mcf is based on an energy equivalency conversion method primarily applicable at the burner tip and does not represent value equivalency at the well head. Given that the value ratio based on the current price of oil as compared to natural gas is significantly different from the energy equivalency conversion ratio of six to one, utilizing a BOE conversion ratio of six Mcf to one bbl would be misleading as an indication of value.

## APPENDIX A – FORM 51-101F2

### REPORT ON RESERVES DATA AND CONTINGENT RESOURCES DATA BY INDEPENDENT QUALIFIED RESERVES EVALUATOR OR AUDITOR

To the board of directors of MEG Energy Corp. (the "Company"):

1. We have evaluated the Company's reserves data and contingent resources data as at December 31, 2020. The reserves data are estimates of proved reserves and probable reserves and related future net revenue as at December 31, 2020, estimated using forecast prices and costs. The contingent resources data are risked estimates of volume of contingent resources and related risked net present value of future net revenue as at December 31, 2020, estimated using forecast prices and costs.
2. The reserves data and contingent resources data are the responsibility of the Company's management. Our responsibility is to express an opinion on the reserves data and contingent resources data based on our evaluation.
3. We carried out our evaluation in accordance with standards set out in the Canadian Oil and Gas Evaluation Handbook as amended from time to time (the "COGE Handbook") maintained by the Society of Petroleum Evaluation Engineers (Calgary Chapter).
4. Those standards require that we plan and perform an evaluation to obtain reasonable assurance as to whether the reserves data and contingent resources data are free of material misstatement. An evaluation also includes assessing whether the reserves data and contingent resources data are in accordance with principles and definitions presented in the COGE Handbook.
5. The following table shows the net present value of future net revenue (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 for the year ended December 31, 2020, and identifies the respective portions thereof that we have evaluated and reported on to the Company's board of directors:

Independent Qualified Reserves Evaluator or Auditor	Effective Date of Evaluation Report	Location of Reserves (Country or Foreign Geographic Area)	Net Present Value of Future Net Revenue (before income taxes, 10% discount rate – MM\$)			
			Audited	Evaluated	Reviewed	Total
GLJ Ltd.	Dec. 31, 2020	Canada	-	14,438	-	14,438

6. The following table sets forth the risked volume and risked net present value of future net revenue of contingent resources (before deduction of income taxes) attributed to contingent resources, estimated using forecast prices and costs and calculated using a discount rate of 10 percent, included in the Company's statement prepared in accordance with Form 51-101F1 and identifies the respective portions of the contingent resources data that we have evaluated and reported on to the Company's board of directors:

Classification	Independent Qualified Reserves Evaluator or Auditor	Effective Date of Evaluation Report	Location of Resources Other than Reserves (Country or Foreign Geographic Area)	Risked Volume (Mboe)	Risked Net Present Value of Future Net Revenue (before income taxes, 10% discount rate – MM\$)		
					Audited	Evaluated	Total
Development Pending Contingent Resources (2C)	GLJ Ltd.	Dec. 31, 2020	Canada	961,515	-	2,637	2,637



7. In our opinion, the reserves data and contingent resources 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 and contingent resources data that we reviewed but did not audit or evaluate.
8. We have no responsibility to update our reports referred to in paragraphs 5 and 6 for events and circumstances occurring after the effective date of our reports.
9. Because the reserves data and contingent resources data are based on judgements regarding future events, actual results will vary and the variations may be material.

Executed as to our report referred to above:

GLJ Ltd., Calgary, Alberta, Canada, February 5, 2021.

*"Originally Signed by"*

Tracy K. Bellingham, P. Eng.  
Manager, Engineering

## APPENDIX B – FORM 51-101F3

### REPORT OF MANAGEMENT AND DIRECTORS ON OIL AND GAS DISCLOSURE

Management of MEG Energy Corp. (the "Corporation") are responsible for the preparation and disclosure of information with respect to the Corporation's oil and gas activities in accordance with securities regulatory requirements. This information includes reserves data and includes, if disclosed in the statement required by item 1 of section 2.1 of NI 51-101, other information such as contingent resources data.

An independent qualified reserves evaluator has evaluated the Corporation's reserves data and contingent resources data. The report of the independent qualified reserves evaluator is presented in Appendix A to this Annual Information Form.

The board of directors of the Corporation has:

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

The board of directors has reviewed the Corporation'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 approved:

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

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

(signed) "*Derek Evans*"  
Derek Evans  
President and Chief Executive Officer

(signed) "*Ian Bruce*"  
Ian Bruce  
Chairman

(signed) "*Eric L. Toews*"  
Eric L. Toews  
Chief Financial Officer

(signed) "*William Klesse*"  
William Klesse  
Director

March 3, 2021

## APPENDIX C

### AUDIT COMMITTEE CHARTER AND RELATED INFORMATION

#### AUDIT COMMITTEE CHARTER

##### 1. MANDATE

The mandate of the audit committee (the "Committee") of MEG Energy Corp. (the "Corporation") is to assist the board of directors (the "Board") in fulfilling its stewardship with respect to

- (a) the Corporation's financial statements, management's discussion and analysis, and accounting and financial reporting practices;
- (b) the relationship with and assessment of the performance of the Corporation's external auditor;
- (c) oversight of the adequacy and independence of the Corporation's internal audit activities;
- (d) oversight of the adequacy of the Corporation's disclosure controls and procedures and internal control over financial reporting; and
- (e) oversight of the Corporation's financial risk management activities including commodity price risk, credit risk and short-term investment management activities.

##### 2. MEMBERSHIP

The Committee shall consist of at least three directors as determined by the Board. Each member shall be an independent director, as defined in the Corporation's Board of Directors Mandate, and at least 25 percent of the members shall be Canadian residents. Members shall be appointed from time to time at the pleasure of the Board. A member of the Committee shall cease to be a member of the Committee upon ceasing to be a director of the Corporation. The Board shall appoint the chair (the "Chair") of the Committee annually from among the members of the Committee. If in any year the Board does not appoint a Chair, the incumbent Chair shall continue in office until the Board appoints another person as Chair.

All members of the Committee shall be financially literate. At the date of adoption of this charter, a member is financially literate if he or she has the ability to read and understand a set of financial statements that present a breadth and level of complexity of accounting issues that are generally comparable to the breadth and complexity of the issues that can reasonably be expected to be raised by the Corporation's financial statements.

##### 3. DUTIES AND RESPONSIBILITIES

###### 3.1 Internal Audit

From time to time, the Committee may request assurance services be carried out by independent advisors. Examples of assurance services may include, but is not limited to: internal audits, compliance audits (both regulatory and contract compliance), financial audits, operational audits, environmental, health and safety audits, information technology audits and security reviews, investigations, and process reviews. Key findings of engagements shall be reviewed with the Committee.

###### 3.2 External Auditor

The duties and responsibilities of the Committee as they relate to the external auditor shall be as follows.

- (a) Recommend to the Board the external auditor to be nominated for appointment by the shareholders for the purpose of preparing or issuing an auditor's report or performing other audit, review or attest services for the Corporation.

- (b) Determine the compensation of the external auditor.
- (c) Review the independence and performance of the external auditor, and recommend the discharge of the external auditor when circumstances warrant.
- (d) Oversee the work of the external auditor, including the resolution of disagreements between management and the external auditor regarding financial reporting.
- (e) Review and approve the audit plan of the external auditor.
- (f) Review and discuss with the external auditor all significant relationships that the external auditor and its affiliates have with the Corporation and its affiliates in order to assess the external auditor's independence, including requesting, receiving and reviewing, on at least an annual basis, a formal written statement from the external auditor delineating all relationships that may reasonably be thought to affect the independence of the external auditor.
- (g) Pre-approve all non-audit services to be provided to the Corporation or its subsidiary entities by the external auditor, provided that the Committee may satisfy the pre-approval requirement either by delegating to one or more members of the Committee the authority to pre-approve non-audit services or by adopting specific policies and procedures for the engagement of non-audit services.
- (h) Review and approve hiring policies of the Corporation regarding present and former partners and employees of the present or former external auditor.

The external auditor shall report directly to the Committee but is ultimately accountable to the Board, which has the ultimate authority and responsibility to select, evaluate and, where appropriate, replace the external auditor (or to nominate the external auditor to be appointed by the shareholders of the Corporation).

### **3.3 Financial Statements**

The duties and responsibilities of the Committee as they relate to the financial statements shall be as follows:

- (a) Review with management and the external auditor, and recommend to the Board for approval, the annual financial statements of the Corporation and related management's discussion and analysis and annual earnings press releases.
- (b) Review with the external auditor the results of the audit, including giving consideration to
  - (i) the contents of the audit report, including
    - (A) critical accounting policies and practices used,
    - (B) alternative treatments of financial information within generally accepted accounting principles that have been discussed with management, ramifications of the use of such treatments, and the treatment preferred by the external auditor, and
    - (C) other material written communications between the external auditor and management;
  - (ii) the scope and quality of the audit work performed;
  - (iii) the adequacy of the Corporation's accounting personnel;
  - (iv) the internal resources used;
  - (v) significant transactions outside of the normal business of the Corporation;

- (vi) significant proposed adjustments and recommendations for improving internal accounting controls, accounting principles or management systems;
  - (vii) non-audit services provided by the external auditor;
  - (viii) the external auditor's judgments about the quality and appropriateness of the Corporation's accounting principles and critical accounting estimates as applied in its financial reporting; and
  - (ix) disagreements, if any, with management;
- (c) Review information for which the Committee is responsible which may be contained within the Corporation's annual management information circular, annual information form or any prospectus.
  - (d) Review with management and the external auditor and approve the interim financial statements of the Corporation and related management's discussion and analysis and interim earnings press releases.
  - (e) Regularly review with management, the financial commitments of the Corporation.
  - (f) Review with management, the external auditor and, if necessary, legal counsel any litigation, claim or other contingency, including tax assessments that could have a material effect upon the financial position or operating results of the Corporation, and the manner in which such matters have been disclosed in the financial statements.
  - (g) On an annual basis, review with management the Corporation's significant tax matters with respect to income tax and other tax obligations.
  - (h) Confirm that adequate procedures are in place for the review of the Corporation's disclosure of financial information extracted or derived from the Corporation's financial statements and periodically assess the adequacy of those procedures.
  - (i) Approve all audit or related services fees related to the Extractive Sector Transparency Measures Act. Review with management and with the external auditors the Extractive Sector Transparency Measures Act Report and approve the filing of the Extractive Sector Transparency Measures Act Report with Natural Resources Canada (NRCan).
  - (j) Confirm that adequate procedures are in place for:
    - (i) the receipt, retention and treatment of complaints received by the Corporation regarding accounting, internal accounting controls, auditing and other matters, and
    - (ii) the confidential, anonymous submission of concerns regarding questionable accounting, auditing or other matters.

### **3.4 Internal Control**

The duties and responsibilities of the Committee as they relate to the internal control procedures of the Corporation shall be as follows.

- (a) Review with management and external auditor where appropriate, the adequacy and effectiveness of the internal control and management information systems and procedures, including cybersecurity controls of the Corporation, with particular attention given to accounting, financial statement and financial reporting matters.
- (b) Review recommendations from management and external auditors regarding any matters, including internal control and management information systems and procedures.

### **3.5 Commodity Price Risk Management**

The Corporation's commodity price risk management activities are governed by a Commodity Price Risk Management Policy, which is approved by the Board of Directors. The Committee provides oversight of these commodity price risk management activities through execution of the following duties and responsibilities as described in the Commodity Price Risk Management Policy:

- (a) On a quarterly basis, review the Corporation's commodity price risk management activity and results; and
- (b) Authorize a commodity price risk management strategy that exceeds the hedging volume limits described in the Commodity Price Risk Management Policy.

### **3.6 Credit Risk Management**

The Corporation's credit risk management activities are governed by a Credit Risk Management Policy, which is approved by the Board of Directors, and Credit Risk Management Practices, which are approved by the Committee. The duties and responsibilities of the Committee as they relate to credit risk management shall be as follows:

- (a) On a quarterly basis, review the Corporation's credit risk exposure, including a review of compliance with the Credit Risk Management Policy and Credit Risk Management Practices; and
- (b) Pursuant to this policy and these practices, the Committee is authorized to amend certain credit limits or modify certain practices.

### **3.7 Short-Term Investment Management**

The Corporation's short-term investment management activities are governed by a Short-Term Investment Policy, which is approved by the Board of Directors, and Short-Term Investment Practices, which are approved by the Committee. The duties and responsibilities of the Committee as they relate to short term investment management shall be as follows:

- (a) On a quarterly basis, review the Corporation's short-term investment portfolio, including a review of compliance with the Corporation's Short-Term Investment Policy and Short-Term Investment Practices.

## **4. ADMINISTRATIVE MATTERS**

The following general provisions shall have application to the Committee.

- (a) The Committee shall meet at least four times annually or more frequently as circumstances may require.
- (b) A majority of members of the Committee shall constitute a quorum, and no business may be transacted by the Committee except
  - (i) at a meeting of its members at which a quorum of the Committee is present in person or by telephone or other communication device that permits all persons participating in the meeting to speak and hear each other, or
  - (ii) by a resolution in writing signed by all the members of the Committee.
- (c) Any member of the Committee may be removed or replaced at any time by the Board and the Board may fill vacancies on the Committee.
- (d) The Committee may invite such advisers and directors, officers and employees of the Corporation as it may see fit from time to time to attend at meetings of the Committee and assist thereat in the discussion and consideration of the matters being considered by the Committee.

- (e) The time and place at which the meetings of the Committee shall be held and the calling of meetings and the procedure in all respects at such meetings shall be determined by the Committee, unless otherwise determined by the by-laws of the Corporation or by resolution of the Board.
- (f) The Chair shall preside at all meetings of the Committee and in the absence of the Chair the members of the Committee present at a meeting shall appoint one of those present members to act as chair of the meeting.
- (g) The Committee shall have the authority to
  - (i) conduct investigations and engage independent counsel and other advisers or consultants as it determines necessary to carry out its duties,
  - (ii) set and require the Corporation to pay the compensation for any advisers engaged by the Committee, and
  - (iii) communicate directly with the external auditor and the Corporation's other financial advisers to the extent necessary to carry out the Committee's duties.
- (h) The Committee shall report to the Board on such matters and questions relating to the financial statements and financial reporting of the Corporation as the Board may from time to time refer to the Committee.
- (i) The members of the Committee shall, for the purpose of performing their duties, have the right to full and unrestricted access to the employees and external auditors of the Corporation, and the books and records of the Corporation and its subsidiaries. The members of the Committee shall have the right to discuss such books and records as are in any way related to the financial statements and financial reporting of the Corporation with the officers and employees of the Corporation and its subsidiaries.
- (j) The Committee shall review and reassess the adequacy of this charter on an annual basis and recommend any proposed changes to the Board for approval.
- (k) The Chair of the Committee shall report on the Committee's activities at each regularly scheduled meeting of the Board.
- (l) At each meeting of the Committee, the independent directors shall have a meeting in the absence of non-independent directors and members of management.
- (m) At each meeting of the Committee, the independent directors shall have a meeting with the external auditors, in the absence of non-independent directors and members of management
- (n) Minutes of the Committee will be recorded and maintained and, upon request, will be promptly circulated to the directors who are not members of the Committee or, if that is not practicable, shall be made available at the next meeting of the Board.

## **5. REVIEW**

In accordance with section 4(j), this charter shall be reviewed by the Committee every year to determine if further additions, deletions or other amendments are required.

Last approved by the Board on October 26, 2020.

Last reviewed and approved by the Committee on October 26, 2020.



## COMPOSITION OF THE AUDIT COMMITTEE

As of the date of this Annual Information Form, the members of the Audit Committee are Messrs. Hodgins (Chair), Billing and McFarland. The Board has determined that each member of the Audit Committee is independent and financially literate within the meaning of NI 52-110.

### Relevant Education and Experience

The education and experience of each Audit Committee member that is relevant to the performance of his or her responsibilities as an Audit Committee member is as follows:

- Mr. Hodgins has been an independent businessman and has served as a director of various public and private entities since 2004 (including PrimeWest Energy Trust, Caracal Energy plc, Fairborne Energy Trust and Calpine Power Income Fund) and is currently a director and Chair of the audit committee of Enerplus Corporation, a director and Chair of the audit committee of AltaGas Ltd. and the Chair of the Board and a member of the audit committee of Gran Tierra Energy Inc. Mr. Hodgins has been a Senior Advisor, Investment Banking at Canaccord Genuity Corp. (an independent investment bank) since September 2018. From 2002 to 2004, Mr. Hodgins served as the Chief Financial Officer of Pengrowth Energy Trust (predecessor to Pengrowth Energy Corporation), a TSX and NYSE-listed energy trust. Prior to that, Mr. Hodgins held the position of Vice President and Treasurer of Canadian Pacific Limited (a diversified energy, transportation and hotels company) from 1998 to 2002 and was Chief Financial Officer of TransCanada Pipeline Limited (a TSX and NYSE-listed energy transportation company) from 1993 to 1998. He practiced corporate taxation from 1977-1987. Mr. Hodgins received a Bachelor of Arts in Business from the Richard Ivey School of Business at the University of Western Ontario in 1975 and received a Chartered Professional Accountant designation and was admitted as a member of the Institute of Chartered Accountants of Ontario in 1977 and Alberta in 1991. He is a member of the Institute of Corporate Directors and the National Association of Corporate Directors (US).
- Mr. Billing is currently the Chairman of the Board of Tervita Corporation and a director of Tervita Corporation since December 2016. He served as the Chairman and CEO of Superior Plus Corp. (an energy distribution and specialty chemicals company) between July 2006 and November 2011 and Executive Chairman between 1998 and 2006. He was Chairman of the board of directors of Superior Plus Corp. until December 31, 2014. Mr. Billing is also currently a corporate director of Badger Daylighting Ltd. and was formerly the Chair of the board of directors at Cortex Business Solutions Inc. He served as a director of Pembina Pipeline Corporation from April 2, 2012 to May 5, 2017. In addition, Mr. Billing has served as Chairman and director of several other public companies and as director and Chairman of the Canadian Association of Petroleum Producers. Mr. Billing holds a Bachelor of Science degree from the University of Calgary and is a Chartered Professional Accountant.
- Mr. McFarland is a co-founder and has been a director of Valeura Energy Inc. since April 2010 and served as President and CEO until his retirement in December 2017. He has over 48 years of experience in the oil and gas industry. Prior thereto, Mr. McFarland served as President and CEO, director and co-founder of Verenex Energy Inc. from 2004 until 2009. From 1999 until 2004, he served as Managing Director of Southern Pacific Petroleum N.L. in Australia. From 1995 until 1998, Mr. McFarland served as President and Chief Operating Officer of Husky Oil Limited. From 1972 until 1995, he held various leadership positions in a 23-year career with Imperial Oil Limited and other Exxon affiliates in Canada, the U.S. and Western Europe. Mr. McFarland has been a director of various public and private entities (including Pengrowth Energy Corporation and Arrow Exploration Corp. until January 2020) and currently serves on the board of directors of the Canadian National Committee of the World Petroleum Council (WPC) and on the Congress Program Committee of the WPC international organization. Mr. McFarland received a Bachelor of Science (Honours) (Chemical Engineering) from Queen's University at Kingston in 1970, a Master of Science (Petroleum Engineering) from the University of Alberta in 1974, completed the Executive Development Program at Cornell University in 1981 and the Governor General's Canadian Study Conference in 1987, received the designation of Professional Engineer in 1974 and is a member of the Institute of Corporate Directors.

## PRE-APPROVAL POLICIES AND PROCEDURES

The Audit Committee and the Board have adopted a policy for approval of external auditor services. The policy prohibits the external auditor from providing specified services to the Corporation and its subsidiaries.

The engagement of the external auditor for a range of services defined in the policy has been pre-approved by the Audit Committee. If an engagement of the external auditor is contemplated for a particular service that is neither prohibited nor covered under the range of pre-approved services, such engagement must be pre-approved. The Audit Committee has delegated the authority to grant such pre-approval to the Chairman of the Audit Committee.

Services provided by the external auditor are subject to an engagement letter. The policy requires that the Audit Committee receive regular reports of all new pre-approved engagements of the external auditor.

## EXTERNAL AUDITOR SERVICE FEES

The aggregate fees billed by the Corporation's external auditor in each of the last two fiscal years were as follows:

	2019	2020
Audit Fees.....	\$ 430,500	\$ 234,600
Audit Related Fees <sup>(1)</sup> .....	\$ 236,873	\$ 197,410
Tax Fees <sup>(2)</sup> .....	\$ 120,902	\$ 59,621
All Other Fees <sup>(3)</sup> .....	\$ 3,780	-
<b>Total</b>	<b>\$ 792,055</b>	<b>\$ 491,631</b>

### Notes:

- (1) Fees for assurance and related services by PricewaterhouseCoopers LLP in connection with their review of the Corporation's financial statements and not otherwise reported under "Audit Fees".
- (2) Fees for tax compliance and tax advice.
- (3) Software license fee.

## APPENDIX D

### CONTINGENT RESOURCES

#### CONTINGENT RESOURCES ESTIMATES

The Corporation engaged GLJ to prepare the GLJ Report, which includes an evaluation of the Corporation's contingent resources. Specifically, GLJ evaluated certain of the Corporation's 100% working interest assets at the Christina Lake Project, the Surmont Project and the May River Regional Project. All of the Corporation's properties are located in the Province of Alberta and are described elsewhere in this Annual Information Form. See "Projects Overview". The disclosure of GLJ's evaluation of the Corporation's contingent resources has been placed in this Appendix D.

GLJ is a private Canadian company established in 1972 which provides independent engineering and geological consulting services to the petroleum industry. GLJ's services include economic evaluations, technical studies, advice and opinions. GLJ carried out its evaluations in accordance with standards established by the Canadian Securities Administrators in NI 51-101. Those standards require that the reserves and contingent resources data be prepared in accordance with the COGE Handbook. GLJ's responsibility is to express opinions on the reserves and contingent resources data including the associated net present values based on its evaluations. The preparation and disclosure of the reported reserves and contingent resources estimates are the responsibility of the Corporation's management.

GLJ's "Report on Reserves Data and Contingent Resource Data by Independent Qualified Reserves Evaluator or Auditor" in the form of Form 51-101F2 is set forth in Appendix A to this Annual Information Form. The Corporation's "Report of Management and Directors on Oil and Gas Disclosure" in the form of Form 51-101F3 is set forth in Appendix B to this Annual Information Form. The contingencies preventing classification of contingent resources as reserves may generally be described as technical, economic and/or other non-technical. A technical contingency would exist if the development plan involves the use of "technology under development" as opposed to "established technology". Technology under development is defined as technology developed and verified by testing as feasible for future commercial applications to the subject reservoir whereas established technology is defined as technology that has been proven to be successful in commercial applications in the reservoir of interest or in a reservoir that is a good analogy. All of MEG's properties evaluated by GLJ are to be developed using established technology, namely, the application of SAGD technology in sandstone reservoirs analogous to multiple successful commercial developments within the Athabasca region. There are therefore no technical contingencies preventing the future classification of these volumes as reserves. See "Projects Overview" for a description of the Christina Lake, Surmont and May River Regional Projects.

Quantities of contingent resources may be estimated using low estimate (high certainty), best estimate (most likely) and high estimate (low certainty) cases. MEG reports its contingent resources using the best estimate case. The best estimate case is considered to be the best estimate of the quantity of contingent resources that would actually be recovered. It is equally likely that the actual remaining quantities recovered would be greater than or less than the best estimate. There is a 50% probability that the actual quantities recovered would equal or exceed the best estimate.

**The contingent resources estimates described herein are estimates only and the actual quantities of recoverable bitumen may be greater or less than those estimated. The estimated future net revenues contained in the following tables do not necessarily represent the fair market value of the Corporation's contingent resources. Estimates of contingent resources involve additional risks over estimates of reserves. There is uncertainty that it will be commercially viable to produce any portion of the contingent resources. All evaluations of future revenue are after the deduction of royalties, development costs, production costs and well abandonment costs but before consideration of indirect costs such as administrative, overhead and other miscellaneous expenses. There is no assurance that the forecast price and cost assumptions contained in the GLJ Report will be realized and variances could be material. Other assumptions and qualifications relating to project schedules, costs and other matters are inherent in these estimates. See "Notice Regarding Forward-Looking Information" and "Risk Factors".**

## Contingent Resources Estimates

The following tables includes the risked contingent resources (best estimate) contained in the GLJ Report with respect to the Christina Lake Project. The evaluation procedures employed by GLJ are based on GLJ's January 1, 2021 pricing models. See "GLJ Price Forecast" under the heading "Independent Reserves Evaluation". The following tables do not include the proved and probable reserves volumes and values that have been assigned by GLJ to the Christina Lake Project. See "Reserves Estimates".

### **SUMMARY OF RISKED OIL AND GAS CONTINGENT RESOURCES as of December 31, 2020 FORECAST PRICES AND COSTS**

Resources Project Maturity Sub-Class	Contingent Resources – Best Estimate <sup>(1)(2)(3)</sup> (Bitumen)	
	Gross (MMbbl)	Net (MMbbl)
CONTINGENT (2C) Development Pending	961.5	734.5

#### Notes:

- (1) "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 commercially recoverable due to one or more contingencies. Contingencies may include factors such as economic, legal, environmental political, and regulatory matters, or a lack of markets. It is also appropriate to classify as contingent resources the estimated discovered recoverable quantities associated with a project in the early evaluation stage. Contingent resources are further classified in accordance with the level of certainty associated with the estimates and may be sub-classified based on project maturity and/or characterized by their economic status. For a description of the contingencies that must be met in order for MEG's contingent resources to be classified as reserves, see "Reserves and Resources Classification".
- (2) "Best Estimate" is a classification of estimated resources described in the COGE Handbook as being considered to be the best estimate of the quantity that will actually be recovered. It is equally likely that the actual remaining quantities recovered will be greater or less than the Best Estimate. If probabilistic methods are used, there should be a 50% probability (P50) that the quantities actually recovered will equal or exceed the Best Estimate.
- (3) There is no certainty that it will be commercially viable to produce any portion of the contingent resources. On an unrisked basis, there has been no material change between the contingent resources assigned to the Corporation's Christina Lake Project in the 2019 GLJ Report and the 2020 GLJ Report.

### **SUMMARY OF RISKED NET PRESENT VALUE OF FUTURE NET REVENUE<sup>(1)</sup> (CONTINGENT RESOURCES – Best Estimate) as of December 31, 2020 FORECAST PRICES AND COSTS**

An estimate of risked net present value of future net revenue of contingent resources is preliminary in nature and is provided to assist the reader in reaching an opinion on the merit and likelihood of the Corporation proceeding with the required investment. It includes contingent resources that are considered too uncertain with respect to the chance of development to be classified as reserves. There is uncertainty that the risked net present value of future net revenue will be realized.

Resources Project Maturity Sub-Class	Risked Net Present Value of Future Net Revenue (Bitumen)									
	Before Income Taxes					After Income Taxes				
	Discounted at (%/Year) – MM\$					Discounted at (%/Year) – MM\$				
	0%	5%	10%	15%	20%	0%	5%	10%	15%	20%
CONTINGENT (2C) Development Pending	28,414	8,215	2,637	888	277	21,146	6,327	2,110	755	267

Project maturity subclasses are sub-classifications of contingent resources which help identify a project's chance of commerciality. Project maturity subclasses (in order of increasing chance of commerciality) are 'development not viable', 'development unclarified', 'development on hold' and 'development pending'. Characteristics of the 'development pending' are: resolution of the final conditions for development is being actively pursued, indicating there is a high chance of development.

The contingent resources have been risked for the chance of commerciality (CoC) which is equal to the 'chance of development' multiplied by the 'chance of discovery'. The 'chance of discovery' in respect of contingent resources is equal

to 1, and therefore the CoC for contingent resources is equal to the ‘chance of development’. The method of quantifying the chance of development is set out in the COGEH Hand Book Volume 2, Section 2.

MEG’s contingent resources classified as ‘development pending’ are located at the Christina Lake Project. The following table summarizes the risked best estimate contingent resources for the Christina Lake Project:

Project	Project Maturity Subclass	Project Evaluation Scenario Status	Riskd Best Estimate Contingent Resource Gross (MMbbl)	Project C.O.C. (Chance of Commerciality)	Estimated Capital to Reach First Commercial Production (MM\$) <sup>(1,2)</sup>	Timing of First Commercial Production <sup>(1)</sup>
Christina Lake	Development Pending	Development Study	961.5	95%	1,691	2029

**Notes:**

- (1) The estimates of capital and timing to reach first commercial production are prepared by GLJ and are based on variable factors and assumptions and are subject to numerous risks and uncertainties associated with the recovery of such resources, including many factors beyond the Corporation’s control. Actual results may vary significantly from these estimates and such variances could be material. The Corporation expects that the commodity price environment will continue to influence the development of MEG’s business in 2021. See “Risk Factors”.
- (2) Capital presented is risked by chance of commerciality

The contingent resources are evaluated based on the same fiscal conditions used in the assessment of reserves, and as such, are forecasted to be economic. Contingent resource values are estimated on the basis of established technology, namely the application of SAGD technology in sandstone reservoirs with numerous commercially successful analogues. On an unrisked basis, there has been no material change between the contingent resources assigned to the Corporation’s Christina Lake Project in the 2019 GLJ Report and the 2020 GLJ Report.

MEG’s decision to proceed with each project development is dependent upon numerous factors (see “Risk Factors – Risk Relating to the Corporation’s Business” and “Projects Overview”). Project timing and execution is dependent on, among other things, the availability of capital and of MEG’s future strategic decisions to optimize capital utilization. The Corporation believes the high rates of return exhibited by these projects based on forecast pricing, even in the current commodity price environment, makes these projects attractive from an investment perspective. The Corporation believes its low operating and capital cost make it more likely that these projects will be developed when compared to relatively higher cost third party project alternatives.

### Christina Lake Project – Specific Risks

Contingent resources have been assessed to lands within the Christina Lake project area which have not otherwise been assigned reserves. These lands are in close proximity to existing production facilities at Christina Lake.

The project maturity subclass is ‘development pending’ based on the established technology status, economic status, project evaluation scenario status and the reasonable timeframe for development. Chance of commerciality is estimated by GLJ to be 95%. The Corporation expects that development of contingent resources within Christina Lake will advance sequentially following development of the reserves projects.

Contingencies preventing the contingent resources from being classified as reserves include: (i) additional delineation; (ii) routine application and approval for facility expansion to capture these additional recoverable volumes within the existing project approval area; (iii) firm development plans and company commitment including confirmation of corporate intent to proceed with the defined expansion plans; and (iv) final project design and sanctioning. As a result, all remaining contingencies preventing such contingent resources from being classified as reserves are “non-technical” contingencies.



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