

**ATTACHMENT A**

**ENBRIDGE MAY 2021 DEPRECIATION STUDY UPDATE**



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## ENBRIDGE ENERGY, LIMITED PARTNERSHIP

May 21, 2021

## Oil Pipeline Filing

### E-FILED

Kimberly D. Bose, Secretary  
Federal Energy Regulatory Commission  
Room 1A, Dockets  
888 First Street, N.E.  
Washington, DC 20426  
USA

Dear Ms. Bose:

Enclosed for filing pursuant to the requirements of 18 C.F.R. §347.1 (e) (1) through (5) is a depreciation study for the Lakehead Pipeline System ("Lakehead"), owned by Enbridge Energy, Limited Partnership ("Enbridge Energy").

### Explanation of filing

In conjunction with, and as part of, a cost of service application for the Base System assets of the Lakehead system filed concurrently with the Commission, Enbridge Energy has undertaken a technical update depreciation study to assess the remaining service lives of all its carrier property, including both Base System and Facilities Surcharge assets in service as of December 31, 2020 (2020 Technical Update to the 2015 Depreciation Study). Enbridge Energy is requesting approval of its proposed revised depreciation rates to be effective January 1, 2021 for ratemaking and FERC reporting purposes. Enbridge Energy recognizes that, to the extent challenged, the appropriate ratemaking depreciation rates will be established in the cost-of-service rate proceeding referenced above.

As explained further in this letter, the 2020 Technical Update to the 2015 Depreciation Study (2020 Depreciation Study) and the related proposed depreciation rates included in this filing have been prepared on the same basis as Enbridge Energy's prior 2015 Depreciation Study<sup>1</sup>. Enbridge Energy engaged Concentric Energy Advisors

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<sup>1</sup> - On January 17, 2017 the Commission approved depreciation rates for Lakehead (Docket No. DO17-3-000) effective January 1, 2016 ("2015 Depreciation Study"). Between December 31, 2015 and December 31, 2020 Enbridge Energy has added in excess of US\$2 Billion in gross plant. Accordingly, changes to its depreciation rates are necessary.

("Concentric") as a consultant to assist in the determination of depreciation rates for its assets. A copy of Concentric's report is included in this filing.

Currently, the costs of Lakehead's assets are recovered through two primary mechanisms, Base System rates established in accordance with the Commission's indexing methodology, and rates established in accordance with the Facilities Surcharge<sup>2</sup>. The Facilities Surcharge allows Enbridge Energy to recover the costs associated with shipper-requested projects through an incremental surcharge layered on top of its existing Base System rates. Project costs to be recovered via the Facilities Surcharge are determined through negotiations between Enbridge Energy and the Canadian Association of Petroleum Producers and have been approved by the Commission. The depreciation rates for the Facilities Surcharge projects are governed by the negotiated terms of each project.

As was the case with its December 31, 2015 Depreciation Study and, in order to best assess the remaining service life of the Lakehead System and preserve the Facilities Surcharge project's underlying depreciation terms, for purposes of the 2020 Depreciation Study Enbridge has segregated the pipeline assets between those assets whose costs are recovered through Base System rates and those assets whose costs are recovered through the Facilities Surcharge.

For existing Facilities Surcharge projects that have an agreed upon depreciation rate or truncation date, Enbridge Energy proposes to use the economic life, as determined by the Commission-approved Facilities Surcharge terms, as the sole factor in establishing the remaining life<sup>3</sup>. For both Facilities Surcharge projects without specific depreciation language and for the Base System assets, Enbridge Energy proposes to use a December 31, 2040 truncation date, which Concentric has reviewed and found to be reasonable and appropriate. Finally, for all Facilities Surcharge projects, Enbridge Energy also seeks approval to use the proposed project level depreciation rate at the plant code level.

The depreciation rates proposed in this filing will not cause any change in Lakehead's past tariff rates. The current year impact of the proposed Facilities Surcharge and Base System assets depreciation rates will be captured in the cost of service rate change filed with the Commission concurrently with this filing.

#### **Submission of supporting data in accordance with 18 C.F.R § 347**

Filed with this letter is information in support of the requested depreciation rates and which is responsive to the specific requirements of 18 C.F.R § 347.(e) (1) through (5).

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<sup>2</sup> - The Facilities Surcharge was established through an Offer of Settlement that was accepted by the Commission in Docket No. OR04-2-000, 107 FERC 161,336 (2004).

<sup>3</sup> - The contractual length of each project, which sets the effective period of the applicable surcharge, was not a determining factor in establishing the remaining life.

### **Notification**

I hereby certify that Enbridge Energy has, on or before this date, provided copies of the above tariff to each person on the Enbridge Energy tariff subscriber list by electronic means or by other means agreed upon.

Pursuant to 18 C.F.R. 343.3 of the Commission's regulations, it is requested that any protest related to this tariff filing be sent via email to [Enbridge-Tariffs@enbridge.com](mailto:Enbridge-Tariffs@enbridge.com).

If you have any questions concerning this filing, please contact the undersigned at (780) 420-5353.

Yours truly,

[ *original signed by* ]

Michael Hrynchyshyn  
Director, Regulatory Strategy  
& Compliance

Enclosures  
cc: Enbridge Energy tariff subscribers

**1. Pipeline Overview CFR § 347.1 (e) (2)**

*An explanation of the organization, ownership, and operation of the pipeline.*

The 2,047-mile Lakehead system, which is the United States portion of the world's longest liquid petroleum pipeline, has operated for more than 70 years and is the primary transporter of crude oil and natural gas liquids from western Canada to the United States. It is a common carrier pipeline that runs from the international border near Neche, North Dakota to the international border near Marysville, Michigan. As of April 2021, it consisted of approximately 4,547 miles of pipe with various loops having diameters ranging from 18 to 48 inches; 116 pump station locations; and 95 crude oil storage tanks with a capacity of about 17.0 million barrels.

The Lakehead system is owned by Enbridge Energy, Limited Partnership (Enbridge Energy) which is an operating subsidiary of Enbridge Energy Partners, L.P. Enbridge Energy Partners, L.P., headquartered in Houston, Texas, is a leader in energy transportation, delivering crude oil and natural gas liquids and operating crude oil storage terminals in the Mid-Continent region of the United States. Enbridge Energy Partners, L.P. owns and operates its crude oil and natural gas liquids transportation and crude oil storage terminals businesses through two subsidiaries: Enbridge Energy and North Dakota Pipeline Company LLC. North Dakota Pipeline Company LLC owns and operates the North Dakota crude oil pipeline system which transports crude oil from the Bakken region and interconnects with the Lakehead system and other pipelines. Enbridge Energy's liquids segment business is conducted principally through the ownership of the Lakehead system, which transports crude oil and natural gas liquids primarily from reserves in western Canada through its connection with its affiliated pipeline in Canada, Enbridge Pipelines Inc. (collectively, the Enbridge Mainline), and the Bakken formation in the Midwest to refining centers in the Midwest and eastern Canada and to connections with other pipelines serving those regions and the U.S. Gulf Coast. In 2020, Lakehead system deliveries averaged 2.3 million barrels per day, meeting approximately 76% of the refinery capacity in the greater Chicago area; 76% of the Minnesota refinery capacity; and 84% of Ontario refinery capacity.

From 1991 until December 20, 2018, Enbridge Energy Partners, L.P. was a publicly traded master limited partnership whose units traded on the New York Stock Exchange (NYSE) under the symbol EEP. On December 20, 2018, all of the publicly held units of Enbridge Energy Partners, L.P. along with those of Enbridge Energy Management, L.L.C., which managed the business and affairs of Enbridge Energy Partners, L.P. were acquired by Enbridge Inc. (Enbridge) based in Calgary, Alberta. Enbridge trades on the NYSE and Toronto Stock exchange under the symbol ENB.

## **2. General Principles Summary CFR § 347.1 (e) (1)**

*A brief summary relating to the general principles on which the proposed depreciation rates are based.*

Enbridge is filing this 2020 Technical Update to the 2015 Depreciation Study (2020 Depreciation Study) to update its depreciation rates based on its assets in-service as at December 31, 2020. All material to support approval of the revised depreciation rates as required in Subpart P, Chapter 1, Title 18, Code of Federal Regulations (CFR), Part 347 is available in this filing.

Enbridge Energy is requesting approval for the Lakehead system's proposed depreciation rates based on a truncation date of December 31, 2040. Enbridge Energy is specifically requesting approval to use revised depreciation rates as of January 1, 2021 for ratemaking as well as FERC reporting purposes.

A single set of depreciation rates, applicable for both ratemaking and accounting and reporting purposes, was approved by the Federal Energy Regulatory Commission (Commission or FERC)<sup>1</sup> for the Lakehead system effective January 1, 2016 (2015 Depreciation Study). Further, Enbridge Energy has prepared and compiled the proposed update to depreciation rates on the same basis as the 2015 Depreciation Study.

The Lakehead system assets were acquired in December 1991 by Enbridge Energy Partners, L.P. For ratemaking purposes, the property, plant and equipment (PP&E) continues to be carried at historical cost (the prior owner's basis at the time of the acquisition plus subsequent net additions) and depreciated using rates previously approved by the Commission. Enbridge Energy continues to maintain historical cost PP&E records.

Since the 2015 Depreciation Study, the Lakehead system has continued to undergo significant expansion in addition to recurring maintenance and integrity capital expenditures. The aggregate net book value of PP&E at December 31, 2020 is virtually unchanged compared with the net book value of PP&E at December 31, 2015 despite the Lakehead system having recorded in excess of \$1.9 billion in depreciation expense over that period.

The majority of additions to PP&E have been attributable to projects constructed and placed in service pursuant to the Facilities Surcharge Offer of Settlement (Facilities Surcharge) approved by the Commission<sup>2</sup>, maintenance and integrity capital expenditures as well the recognition of an Asset Retirement Obligation in conjunction with Lakehead's Line 3 Replacement Project. The Facilities Surcharge allows Enbridge Energy to recover the costs associated with projects requested and supported by the Canadian Association of Petroleum Producers (CAPP), the counterparty to the Facilities Surcharge, through an incremental surcharge layered on top of the existing indexed base rates (the Base System). Several of the Facilities Surcharge projects have distinct commercial attributes, including depreciation terms, which differ from the depreciation terms of the assets that

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<sup>1</sup> Docket No. DO17-3-000. Letter Order dated January 17, 2017.

<sup>2</sup> Enbridge Energy, Limited Partnership, 107 FERC 31,336 (June 30, 2004) Docket No. OR04-2-000.

are not tolled through the Facilities Surcharge. Due to this unique situation of having different depreciation terms and conditions, and consistent with the approach taken in the 2015 Depreciation Study, Enbridge Energy proposes to continue the segregation the Facilities Surcharge assets and the Base System assets for depreciation purposes.

For the Facilities Surcharge assets, the depreciation rates were determined based on the Commission-approved Facilities Surcharge agreements with CAPP, where applicable. As of December 31, 2020, there have been 26 shipper-supported projects approved by the Commission for inclusion in the Facilities Surcharge<sup>3</sup>. Five of these Facilities Surcharge projects include specific clauses stipulating the depreciation of the project's assets via either a fixed depreciation rate or a fixed period. Table 1 shows those Facilities Surcharge projects with stipulated depreciation terms and their respective composite remaining life at December 31, 2020.

**Table 1: Facilities Surcharge Projects with fixed and stipulated depreciation terms**

No.	Facilities Surcharge Project	FERC Docket No.	FERC Approval Date	Depreciation Start Date	Truncation Date	Composite Remaining Life at 12/31/15 (in years)
1	Project 5 - Southern Access Mainline Expansion Project	OR06-3-000	3/16/2006	4/1/2008	3/31/2038	N/A
2	Project 14 - Line 6B Integrity Project	OR11-5-000	3/31/2011	1/1/2011	12/31/2040	20.0
3	Project 15 - Line 6B Pipeline Replacement and Dig Program	OR12-8-000	3/29/2012	6/30/2013	6/29/2043	22.5
4	Project 21 - Line 14 2013 Additions	OR14-33-000	7/31/2014	1/1/2014	12/31/2035	20.0
5	Project 22 - Recoverable Legacy Integrity	OR14-33-000	7/31/2014	1/1/2014	12/31/2035	20.0

Project 5, Southern Access Mainline Expansion Project, has a fixed depreciation rate of 3.33% as stipulated in the terms of the agreement<sup>4</sup>. The other Facilities Surcharge projects noted in Table 1 have language in their respective agreements that prescribe a depreciation period or a truncation date. Even though certain Facilities Surcharge projects have specific truncation dates, the related physical assets may remain in-service beyond these dates.

<sup>3</sup> The following Facilities Surcharge projects are not included in this Depreciation Study as they have either been fully recovered or have no capital component: Projects 2, 4 (Docket No. OR04-2-000); Projects 9, 10, and 11 (Docket No. OR09-5-000); Project 21 – Legacy Line 14 (Docket No. OR14-33 and Project 21 – Line 14 Additions (Legacy) (Docket No. OR14-33). Project 25 (OR16-9-000) was approved by the FERC on February 1, 2016 and is not a capital project.

<sup>4</sup> FERC Docket No. OR06-3-000, at Page 9.

The remaining Facilities Surcharge projects<sup>5</sup> which either do not have stipulated depreciation terms, or stipulate the use of the later of the Facilities Surcharge project agreement stipulated truncation date or the truncation date applicable to the non-stipulated Facilities Surcharge projects and Base System assets, have been assessed using a truncation date of December 31, 2040.

For each individual Facilities Surcharge project, both stipulated and non-stipulated, Enbridge Energy applies a single depreciation rate for rate making and reporting purposes to all plant accounts within that Facilities Surcharge project for a given Facilities Surcharge project for ratemaking and reporting purposes.

The remaining balance of the Lakehead system PP&E is comprised of Base System assets. Depreciation rates for these assets are based on the remaining lives developed by Concentric Energy Advisors (Concentric) and are provided in Appendix “A” at page 2. An explanation of the depreciation rates for the Base system assets is discussed below in CFR § 347.1 (e) (4).

Summaries of current and proposed depreciation rates, remaining economic lives, gross plant and accrued depreciation for each Facilities Surcharge project and for the Base System assets by plant code are included in Appendix “A”. Gross plant balances and accrued depreciation balances are as of December 31, 2020.

### **3. Average Remaining Life CFR § 347.1 (e) (4)**

*An explanation of the average remaining life on a physical basis and on an economic basis.*

This depreciation study reflects the straight-line method of depreciation using a remaining service life basis. The remaining service life is primarily dependent on two factors: physical life and economic life. As discussed above, in order to best assess the service life of the Lakehead system, Enbridge Energy segregated the assets between Base System assets and Facilities Surcharge assets.<sup>6</sup>

For the Base System assets, Enbridge Energy engaged Concentric to undertake a technical update to the 2015 depreciation rate calculations incorporating the average service life estimates as approved in the 2015 Depreciation Study and to review the appropriateness of Enbridge Energy’s proposed truncation date for the purpose of calculating depreciation rates for its pipeline assets as of December 31, 2020. The results of the technical update produced a detailed calculation of the remaining lives for each Lakehead Base System asset account. This study is included in Appendix “F”. Accordingly, Enbridge Energy has utilized these remaining service lives (subject to the

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<sup>5</sup> Project 12 – Alberta Clipper Project; Project 18 – Eastern Access Phase 1; Project 19 – Eastern Access Phase 2; Project 20 – 2014 US Mainline Expansions; Project 21 – Line 14 Additions; Project 23 – Recoverable Future Integrity; Project 24 – 2015/16 US Mainline Expansions. Projects 1, 3, 6, 7, 8, 13, 16 and 17 are categorized as Other FSM Projects for the purposes of this Depreciation Study.

<sup>6</sup> See Appendix A.



December 31, 2040 truncation date as described below) in calculating depreciation rates for the Base System assets.

For those Facilities Surcharge assets with either a stipulated depreciation rate or stipulated economic life and/or truncation date, Enbridge Energy proposes that the economic life, as determined by the Commission-approved Facilities Surcharge agreements with CAPP, be the sole factor in establishing the remaining life.

While this may result in certain Facilities Surcharge assets having an economic life somewhat longer or shorter than the December 31, 2040 truncation date proposed for the non-stipulated Facilities Surcharge assets and the Base System assets, these resulting economic lives reflect the outcome of negotiations between CAPP and Enbridge Energy and accordingly should continue to determine the depreciation rates applied to these projects.

These economic lives are reflected in the proposed depreciation rates as noted in Table 1 and Appendix “A”.

### 3.1 Physical Life

The physical life of the pipeline is continually extended through Enbridge Energy’s comprehensive program of maintenance and refurbishment. Enbridge Energy’s pipeline integrity program identifies sections of the pipeline needing repair or replacement and is designed to maintain the safe operating lifespan of the pipeline for an indefinite period of time.

Given this approach to integrity, the service life of the Lakehead system is not dependent solely upon physical forces such as deterioration but also to a large extent upon the economic exhaustion of supply and changes in the demand for crude oil.

### 3.2 Economic Life

The assessment of the economic life of the pipeline is as important as the estimation of the physical life in the calculation of appropriate depreciation rates given the long-lived nature of pipeline assets. Unless otherwise stipulated pursuant to the terms of a Facilities Surcharge project, the remaining lives of all asset groups reflect a truncation date of December 31, 2040, based on an economic life review of the Lakehead system.

There are several factors, considerations and uncertainties which support the use of a December 31, 2040 truncation date. These include current and anticipated competition to the Enbridge Mainline, actions by state and local governments and the uncertainty arising from the recent acceleration in the pace of Federal (United States and Canada), state/provincial and local governments passing decarbonization legislation or adopting policies that may influence the market demand for pipelines. An example of the latter is found in the recent issuance by President Biden of an Executive Order

titled: "Tackling the Climate Crisis at Home and Abroad"<sup>7</sup>, which unveiled detailed climate plans designed to meet his campaign promise that the United States achieves a 100% clean energy economy and net zero emissions no later than 2050.

The Enbridge Mainline, including the Lakehead System, is expected to face higher levels of competition for crude oil egress from the Western Canada Sedimentary Basin (WCSB) in the form of the TMEP pipeline expansion (owned by the Government of Canada). The TMEP pipeline, expected to come into service in late 2022, is anticipated to add approximately 590,000 barrels per day of egress from Edmonton, Alberta to tidewater on the Pacific coast. The incremental TMEP capacity is expected to be filled with barrels moving by rail today and by barrels from the Enbridge Mainline. Enbridge Energy expects that the diverted barrels will be made up as supply grows. Nevertheless, the introduction of additional competitive capacity introduces incremental uncertainty compared with the 2015 Depreciation Study.

The competitive position of the Enbridge Mainline is also impacted by the fact that its primary competitors for the transportation of WCSB volumes (Trans Mountain and Keystone) are, or will be, contracted crude oil pipelines with limited spot volumes. In contrast, the Lakehead system and Canadian Mainline provide only 100% spot service. Under most scenarios whereby crude oil supply or demand or both are reduced, spot volumes will likely be the first barrels to be cut, as they were during the Covid-19 pandemic when the Enbridge Mainline experienced an approximate 500,000 bpd drop in throughput during the second quarter of 2020 while Keystone experienced minor and short-lived volume reductions and Trans Mountain essentially no reductions. The Lakehead system and Canadian Mainline both currently have the highest exposure to spot barrels of the major pipelines provided egress out of the Western Canada Sedimentary Basin.

Unprecedented actions by state, local, and tribal governments to attempt to regulate, and ultimately shut down, existing pipeline infrastructure, such as experienced by Enbridge Energy in Michigan and Wisconsin with respect to Line 5, is a new, emerging risk not imagined at the time of Enbridge Energy's 2015 Depreciation Study. Despite having constructed Line 5 in 1953 and operating the pipeline in accordance with applicable federal safety standards, Enbridge is facing lawsuits filed in Michigan in 2019 and 2020 and in Wisconsin in 2019 that seek closure of Line 5 decades after the pipeline's construction. The lawsuits come despite the support of the Canadian government as well as most of the states and provinces that would be directly impacted by a shutdown of Line 5. In 2020, Enbridge also filed its own lawsuit against the State of Michigan to defend the continued, uninterrupted operation of Line 5. The fact that Enbridge must go to court to protect its operating assets is evidence of the emergence of a new risk not faced by Enbridge Energy at the time of the 2015 Depreciation Study.

Finally, the publicly stated goal of transitioning to a lower carbon economy of both the governments of the United States and Canada introduces additional uncertainty to the process of establishing depreciation rates. The timing of this transition is uncertain and unknowable. This uncertainty is

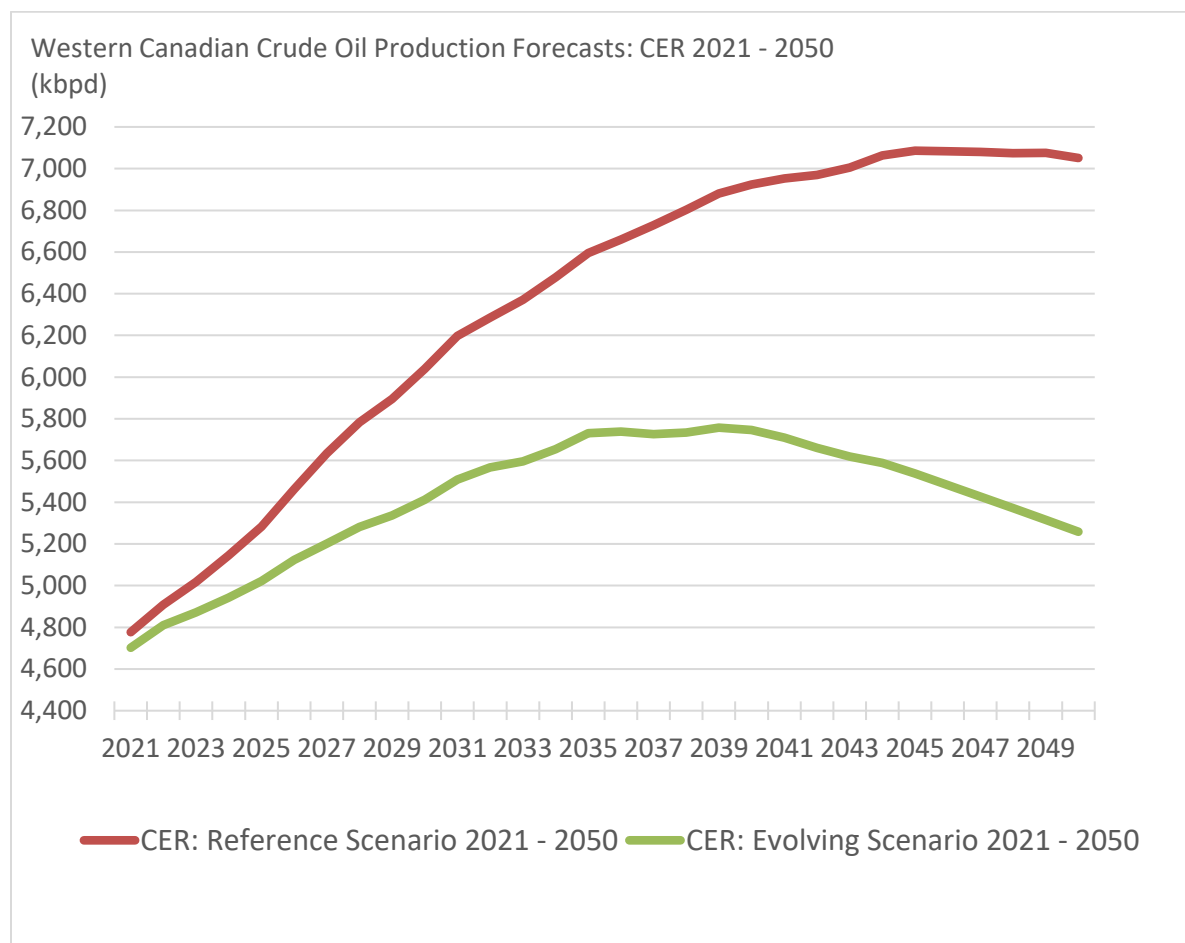
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<sup>7</sup> Executive Order No. 14008 ("E.O. 14008"), 86 Fed. Reg. 7,619 (Jan. 27, 2021) (E.O. 14008).

significant as it is beginning to influence the forecasts Enbridge Energy has historically relied on to inform its process of establishing economic lives and truncation dates for setting depreciation rates for the Lakehead system and Canadian Mainline.

For example, Enbridge Energy has reviewed the recent forecast produced by the Canada Energy Regulator (CER) (formerly known as the National Energy Board of Canada) . While the CER's past forecasts have included alternate scenarios based on price and Triple E (a balancing of Economic, Environmental and Energy objectives), the CER is also now including alternative scenarios based on a societal transition away from carbon-based forms of energy.

The CER has issued two scenarios for WCSB production in its most recent forecast – a Reference Scenario and an Evolving Scenario (Figure 1). The Evolving Scenario assumes a lower demand for fossil fuels globally and advancements in low carbon technologies lead to improved efficiencies and lower costs while the latter scenario considers a future where action to reduce GHG emissions does not develop beyond measures currently in place. The Reference Scenario assumes stronger demand for fossil fuels and that, while low carbon technologies continue to improve, they do so at a slower rate than in the Evolving Scenario.

Figure 1<sup>8</sup>

Beyond 2040, as highlighted by the CER's alternate scenarios, there is uncertainty in determining when, and to the extent, supply may decline. It depends on how global and North American demand is impacted by any transition to alternative energy sources, often referred to as the energy transition. For example, as noted by the CER, future crude oil prices, access to market and market demand for Canadian crude oil will significantly influence the decisions producers will make regarding future production growth, competitiveness, and investments in new technologies.

Additionally, while CER's Evolving Scenario focuses on Western Canadian Sedimentary Basin production, the stated policy goals of a transition to a lower carbon economy may also have effects on the demand side of the ledger. The Canadian Government has recently announced its climate plan of which a centerpiece is to increase carbon taxes from the current level of CDN \$40/ton to CDN\$170/ton by 2030. The CDN\$170/ton is equivalent to approximately CDN \$0.40/liter of gasoline or about CDN \$1.60/gallon of gasoline. According to one forecast, an IMF report entitled "Four Charts on Canada's Carbon Pollution Pricing System" dated March 18, 2021, the imposition of the carbon tax scheme as well as the escalation in the per unit carbon tax rate is forecasted to

<sup>8</sup> Canada Energy Regulator – Canada's Energy Future 2020 - Appendices

reduce Canada's expected carbon dioxide emissions by approximately one third by 2030. While the exact impact of Canada's carbon tax scheme on crude oil demand is currently not quantifiable it is clearly another uncertainty. The fact that the United States has not yet implemented such a scheme in an attempt to meet its commitment to the Paris Agreement, despite its stated intention to do so as evidenced by President Biden's Executive Orders, only adds to the level of uncertainty for pipelines as they attempt to forecast long term demand for crude oil transportation services.

In the face of all this uncertainty, new competitor pipelines, actions by state and local governments to attempt to regulate interstate and international pipelines and clearly divergent forecasts as to the level of WCSB production beyond 2040, the determination of a 2040 truncation date for purposes of establishing depreciation rates for the Lakehead system is both a necessary and prudent step at this time. As the future unfolds and these uncertainties are gradually resolved, Enbridge Energy should, and will, incorporate and reflect this additional clarity about the path forward in future depreciation studies.

### Crude Oil Supply Capability

There is considerable uncertainty when attempting to forecast crude oil production, particularly for projection periods exceeding 20 years (Refer to discussion under 3.2 - Economic Life). Notwithstanding that inherent uncertainty, current supply forecasts for Canada and the United States support the conclusion that adequate crude oil supply will be available to the Lakehead system to support, at a minimum, a 20-year economic life.

### Canadian Supply

In terms of oil reserves, where it is proven that oil can be economically recovered, Canada ranks third globally after Saudi Arabia and Venezuela with about 169.7 billion barrels<sup>9</sup>. Ninety-six percent of the current crude oil reserves are found in the oil sands formations in western Canada, with the balance located in conventional fields in western and eastern Canada.

The majority of the Lakehead system's crude oil supply comes from western Canada and especially the Alberta oil sands. Data gathered and analyzed by the Canada Energy Regulator suggests that the production of crude oil is anticipated to grow for the next two decades, which supports Enbridge Energy's position that there is a reliable supply of crude oil to be shipped on the Lakehead system. This is primarily because oil sands projects have very low decline rates, meaning that projects that are started can run at or near their initial production rates for 25-40 years. Many of the projects that are producing today are anticipated to continue to do so through 2040.<sup>10</sup>

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<sup>9</sup> BP Statistical Review of World Energy 2020, at Page 14.

<sup>10</sup> CER Canada's Energy Futures 2019 Supplement: Oil Sands Production

### Crude Oil Demand Outlook

Market demand for crude oil transported by the Lakehead system comes primarily from refineries in the Midwest United States and eastern Canada. Enbridge Energy expects that demand for western Canadian and Bakken crude oil production will continue to increase slowly in PADD II (the area that includes the Great Lakes and Midwest regions of the United States). PADD II refinery configurations and crude oil requirements continue to make it an attractive market for western Canadian supply.

### United States Demand

Petroleum and other liquids continue to be the most-consumed fuel in the United States. In its AEO2021 reference case, the EIA forecasts that United States consumption of petroleum and other liquids, which include biofuels, will remain basically flat between 2019 and 2040, with an annual average increase 0.12%. The consumption of motor gasoline, a primary product of crude oil refining, is expected to decline from pre-pandemic levels of over 9 million barrels per day to approximately 8 million barrels per day by 2040.

### Canadian Demand

According to the April 2018, Canadian Refinery Overview, Energy Market Assessment<sup>11</sup>, Canada's total refining capacity is 1.9 mmbpd, with refining capacity in Ontario and Quebec (key markets for the Lakehead system) at 792 mbpd, and western Canada at 686 mbpd. Canadian refineries operate mostly to meet domestic needs. There was a 30-year period where no new refineries were built; this changed in 2017 when a refinery located in central Alberta began operations. There are no new refineries being proposed or in construction at this time.

Refineries in western Canada receive the majority of their crude oil requirements via pipeline, with smaller volumes transported by rail. As stated within Canadian Refinery Overview, Energy Market Assessment, "Crude oil receipts at Canadian refineries have not grown since 2000...Canadian refinery production peaked in 2004. Between 2004 and 2015, refinery production dropped nearly 15%."

### 3.4 Conclusion

The goal of depreciation policy and the establishment of oil pipeline depreciation rates is to provide the pipeline with a reasonable opportunity to recover its investment in property, plant and equipment. For the Lakehead System, that investment stood at just over \$9 billion at December 31, 2020. Further that investment is expected to grow a further \$4 billion later in 2021 with the in-

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<sup>11</sup> Source: <https://www.cer-rec.gc.ca/en/data-analysis/energy-commodities/crude-oil-petroleum-products/report/2018-refinery-report/2018cndnrfrnrvw-eng.pdf>

service of the U.S. portion of Enbridge Energy's Line 3 Replacement project<sup>12</sup>.

The risk of recovery of a pipeline's investment in its property, plant and equipment, which Enbridge Energy views as its fundamental risk, ultimately rests with the pipeline company. Depreciation studies and capitalization policies are important tools which the company has at its disposal to manage this fundamental risk and provide the pipeline company with a reasonable opportunity to recover its investment and mitigate this risk.

Managing this fundamental risk is inherently difficult and challenging at the best of times due to the requirement for long term forecasts and, often, the size of the pipeline investment at stake. It is not possible to know at the time the truncation date is estimated, and depreciation rates are established, what the "correct" truncation date will be.

Furthermore, there is a unique asymmetric nature to this risk that must also be considered. If depreciation rates were set based on a truncation date that ultimately turns out to be too early, rate-payers may pay more in the near term but would ultimately benefit from a lower rate base and lower rates in the long run. Conversely, setting depreciation rates based on a too long truncation date may mean that the pipeline company may be unable to charge the necessary rates in the future to permit the pipeline company to recover its investment. Correspondingly, pipeline companies should be afforded a degree of latitude to manage this risk through depreciation studies provided that the pipeline resulting rates remain just and reasonable.

Accordingly, it is Enbridge Energy's view that the use of a December 31, 2040 truncation date in setting depreciation rates effective January 1, 2021 is a rational and prudent approach at this time. As new and incremental information becomes available it is incumbent on Enbridge Energy to incorporate this new information in future depreciation studies and depreciation rates to ensure such depreciation rates remain appropriate and that Enbridge Energy continues to address its fundamental risk.

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<sup>12</sup> As the U.S. portion of the Line 3 Replacement Project is expected to be in-service in Q4 of 2021 it is not included in this 2020 Technical Update to the 2015 Depreciation Study.

**4. Proposed Depreciation Rates CFR § 347.1 (e) (3)**

*A table of the proposed depreciation rates by account.*

Please see Appendix “A” which sets forth the proposed depreciation rates for Lakehead’s Base System and the Facilities Surcharge assets. The proposed changes reflect an overall decrease in the economic lives of the Lakehead system assets due to a revision of the truncation date from 2045 to 2040. Gross plant balances and accrued depreciation balances are as of December 31, 2020.

**5. System Maps CFR § 347.1 (e) (5) (i)**

*Up-to-date engineering maps of the pipeline including the location of all gathering facilities, trunkline facilities, terminals, interconnections with other pipeline systems, and interconnections with refineries/plants. Maps must indicate the direction of flow.*

Please see Appendix “B”.

**6. Operations Summary CFR § 347.1 (e) (5) (ii)**

*A brief description of the carrier's operations and an estimate of any major near-term additions or retirements including the estimated costs, location, reason, and probable year of transaction.*

For a description of the Lakehead system operations, please refer to information provided in response to CFR §347.1 (e) (2) and CFR §347.1 (e) (5) (i).

Significant near-term additions include the Line 3 Replacement Project. The Line 3 Replacement Project provides for a new 36” diameter pipeline from the United States border to Superior, Wisconsin, except for approximately 16 miles downstream of the United States border which is 34” pipeline diameter. It includes eight new pump stations and terminal connectivity at the Clearbrook, Minnesota and Superior, Wisconsin terminals.

Subject to regulatory and other approvals, the estimated in-service date for the Line 3 Replacement Project is Q4 2021. The total estimated cost, including costs for decommissioning and remediation of the original Line 3 pipeline, for the United States portion of the Line 3 Replacement Project is \$4.2 billion.

**7. Current Depreciation Rates CFR § 347.1 (e) (5) (iii)**

*The present depreciation rates being used by account.*

Please see Appendix “A”.



**8. Volume Information CFR § 347.1 (e) (5) (iv) and (vi)**

*For the most current year available and for the two prior years, a breakdown of the throughput received with source at each receipt point and throughput delivered at each delivery point. A list of shipments and their associated receipt points, delivery points, and volumes by type of product for the most current year.*

Please see Appendix “C”.

**9. Capacity Information CFR § 347.1 (e) (5) (v)**

*The daily average capacity (in barrels per day) and the actual average capacity (in barrels per day) for the most current year, by line section.*

Please see Appendix “D”.

**10. Plant and Reserve Balances CFR § 347.1 (e) (5) (vii)**

*For each primary carrier account, the latest month's book balances for gross plant and for accumulated reserve for depreciation.*

Please see Appendix “A”.

**11. Remaining Life Estimate CFR § 347.1 (e) (5) (viii)**

*An estimate of the remaining life of the system including the basis for the estimate.*

Please refer to information provided in response to CFR §347.1 (e) (4).

**12. List of Crude Oil Areas CFR § 347.1 (e) (5) (ix)**

*For crude oil, a list of the fields or areas from which crude oil is obtained.*

Please see Appendix “E”. For additional background please refer to information provided in response to CFR §347.1 (e) (4).

**13. Service Life Data Form CFR § 347.1 (e) (5) (x)**

*If the proposed depreciation rate adjustment is based on the remaining physical life of the properties, a complete, or updated, if applicable, Service Life Data Form (FERC Form No. 73) through the most current year.*

As the proposed depreciation rates are based primarily on economic life, updated Service Life Data Forms (FERC Form No. 73) are not required.

**14. Estimated Salvage Value CFR § 347.1 (e) (5) (xi)**

*Estimated salvage value of properties by account.*

For purposes of this depreciation study, Enbridge Energy estimates the salvage value to be zero. Please see Appendix “A”.

## **APPENDICES**

## APPENDIX “A”

### Proposed Depreciation Rates

**Enbridge Energy, Limited Partnership**  
**Lakehead System**  
**Table of Proposed Depreciation Rates**

**Depreciation Rates and Property Plant and Equipment Assets by Project**

Project	<u>As of December 31, 2020</u>				<u>Current</u>		<u>Proposed</u>		
	<u>Gross Plant</u>	<u>Accumulated Depreciation</u>	<u>Salvage</u>	<u>Future Accruals</u>	<u>Accrual Amount</u>	<u>Depreciation Rate</u>	<u>Accrual Amount<sup>1</sup></u>	<u>Composite Remaining Life</u>	<u>Depreciation Rate<sup>1</sup></u>
Land	33,621,183								
<u>Facilities Surcharge Assets with Stipulated Depreciation:</u> <sup>3,4,5</sup>									
Project 5 - Southern Access Mainline Expansion Project	2,131,700,201	878,830,471	-	1,252,869,730	70,985,617	3.33%	70,985,617	17.25	3.33% <sup>6</sup>
Project 14 - Line 6B Integrity Project	26,010,786	(105,816,984)	-	131,827,770	790,728	3.04%	6,591,388	20.00	25.34%
Project 15 - Line 6B Replacement and Dig Program	390,395,141	101,827,686	-	288,567,455	12,844,000	3.29%	12,825,220	22.50	3.29%
Project 21 - Line 14 Additions (2013)	85,025,464	28,480,619	-	56,544,845	3,766,628	4.43%	3,769,656	15.00	4.43%
Project 22 - Recoverable Legacy Integrity	371,382,003	143,861,023		227,520,980	15,226,662	4.10%	15,168,065	15.00	4.08%
<u>Facilities Surcharge Assets with 20-year Remaining Lives:</u>									
Project 12 - Alberta Clipper	1,246,608,643	399,133,521	-	847,475,122	33,907,755	2.72%	42,373,756	20.00	3.40%
Projects 18, 19 - Eastern Access	2,273,622,621	458,898,980	-	1,814,723,641	72,528,562	3.19%	90,736,182	20.00	3.99%
Projects 20, 24 - US Mainline Expansions	2,215,960,519	372,224,684	-	1,843,735,835	73,348,293	3.31%	92,186,792	20.00	4.16%
Project 21 - Line 14 Additions - Future (2014+)	62,422,897	8,272,768	-	54,150,129	1,991,290	3.19%	2,707,506	20.00	4.34%
Project 23 - Recoverable Future Integrity	352,535,037	53,657,244	-	298,877,793	11,316,375	3.21%	14,943,890	20.00	4.24%
Projects 1, 3, 6-8, 13, 16, 17 - Other FSM Projects	137,139,887	47,815,834	-	89,324,053	3,689,063	2.69%	4,466,203	20.00	3.26%
ARO	204,514,654	(12,273,285)		216,787,939	-	0.00%	10,839,397	20.00	5.30%
Total Facilities Surcharge Assets	9,530,939,036	2,374,912,561	-	7,122,405,292	300,394,973		367,593,672		

**Notes:**

- Proposed Accrual Amount calculated by dividing Future Accruals by Composite Remaining Life.
- Proposed Depreciation Rate calculated by dividing Proposed Accrual Amount by Gross Plant unless otherwise noted.
- Composite Remaining Life stipulated as determined in the applicable Facilities Surcharge project. Please refer to Table 1 on Page 3 of this filing.
- Depreciation Rate stipulated as determined in the applicable Facilities Surcharge project. Please refer to Table 1 on Page 3 of this filing.
- The following Facilities Surcharge projects are not included as they have either been fully recovered or have no capital component: Projects 2, 4, 9, 10, 11, 21 – Legacy Line 14 and 21 – Line 14 Additions (Legacy).
- Project 5 - Southern Access Mainline Expansion Project has a stipulated depreciation rate of 3.33% pursuant to the terms of the Southern Access Mainline Expansion Project agreement (FERC Docket No. OR06-3-000, at Page 9).

**Depreciation Rates and Property Plant and Equipment**  
**Index Assets by Plant Account**

Number	Description	<b><u>As of December 31, 2020</u></b>				<b><u>Current</u></b>		<b><u>Proposed</u></b>		
		<b><u>Gross Plant</u></b>	<b><u>Accumulated Depreciation</u></b>	<b><u>Salvage</u></b>	<b><u>Future Accruals</u></b>	<b><u>Accrual Amount</u></b>	<b><u>Depreciation Rate</u></b>	<b><u>Accrual Amount</u></b>	<b><u>Composite Remaining Life <sup>1</sup></u></b>	<b><u>Depreciation Rate</u></b>
151	Land	27,086,894								
152	Rights of Way	31,997,295	(6,501,664)	-	38,498,959	1,391,882	4.35%	2,093,472	18.39	6.54%
153	Line Pipe	811,849,277	197,672,959	-	614,176,318	36,776,772	4.53%	33,127,094	18.54	4.08%
154	Line Pipe Fittings	163,989,450	35,266,183	-	128,723,267	4,362,119	2.66%	6,883,597	18.70	4.20%
155	Pipe Line Construction	723,744,952	285,919,575	-	437,825,377	13,389,282	1.85%	23,189,903	18.88	3.20%
156	Buildings	115,760,490	59,368,433	-	56,392,057	2,303,634	1.99%	3,071,463	18.36	2.65%
158	Pumping Equipment	73,214,013	47,184,630	-	26,029,383	1,076,246	1.47%	1,530,240	17.01	2.09%
160	Other Station Equipment	702,018,050	297,072,321	-	404,945,729	15,795,406	2.25%	22,335,672	18.13	3.18%
161	Oil Tanks	207,172,506	73,477,277	-	133,695,229	4,992,857	2.41%	7,014,440	19.06	3.39%
163	Communications Systems	17,164,746	6,862,055	-	10,302,691	399,939	2.33%	663,406	15.53	3.86%
164	Office Furniture & Equipment	32,651,697	28,099,879	-	4,551,818	1,472,592	4.51%	798,565	5.70	2.45%
165	Vehicles and Other Work Equipment	81,352,576	75,709,325	--	5,643,251	12,221,022	15.01%	642,739	8.78	0.79%
166	Other Property <sup>2</sup>	11,035,531	9,990,692	-	1,044,839	-	0.00%	53,581	19.50	0.49%
Total Index Assets		2,999,037,477	1,110,121,665	-	1,861,828,918	94,181,751		101,404,172		
Total Lakehead System		12,529,976,513	3,485,034,226	-	8,984,234,210	394,576,724		468,997,844		

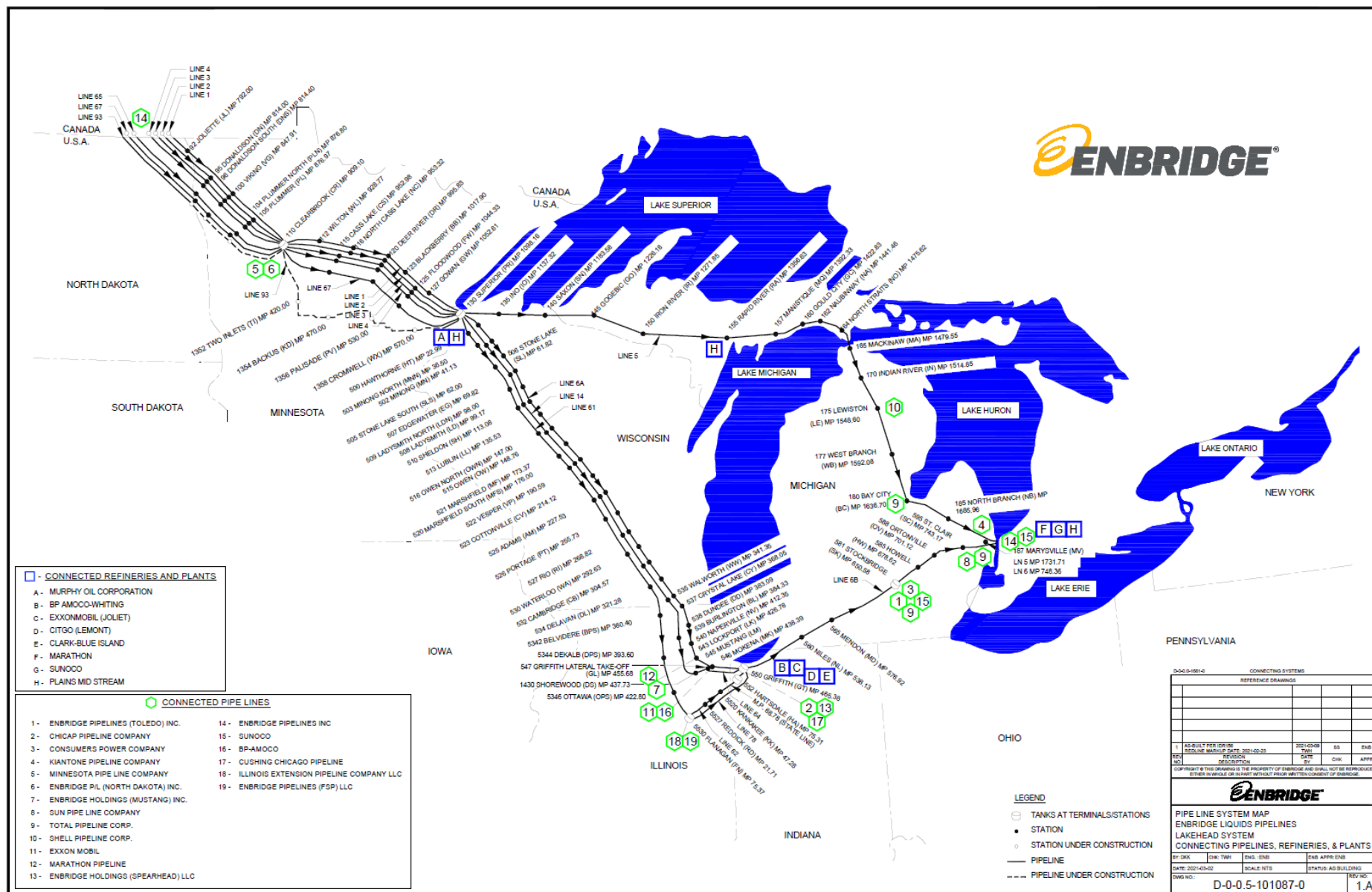
**Notes:**

1. Composite Remaining Life based on Appendix "F" – Concentric Advisors Depreciation Study at page 4-2 (Table 1).

2. Due to negative Future Accruals as of December 31, 2015 the Accrual Amount was set to zero.

## APPENDIX "B"

### Pipeline & Connected System Map



**APPENDIX “C”**

Enbridge Energy, Limited Partnership

Deliveries in Barrels/Day

As Required by Code of Federal Regulations Sec. 347.1 (e)(5)(iv) and (vi)

Particulars	2018	2019	2020
<b>Clearbrook, Superior, Chicago, Stockbridge and Marysville</b>			
Light Crude	336,089	365,155	302,034
Heavy Crude	933,899	891,419	914,955
NGL	5,504	5,694	3,431
US Domestic	34,418	46,238	61,577
<b>Flanagan</b>			
Light Crude	134,358	156,132	165,331
Heavy Crude	597,942	651,960	645,674
US Domestic	9,561	5,265	13,499
<b>Eastern Canada and West Seneca</b>			
Light Crude	340,971	334,004	337,045
Heavy Crude	156,661	142,343	130,201
NGL	76,775	78,208	73,581
US Domestic	148,884	156,881	132,974
	<u>2,775,062</u>	<u>2,833,299</u>	<u>2,780,302</u>

Enbridge Energy, Limited Partnership  
Receipts in Barrels/Day  
As Required by Code of Federal Regulations Sec. 347.1 (e)(5)(iv) and (vi)

Particulars	2018	2019	2020
<b>Western Canada</b>			
Light Crude	811,206	854,790	804,409
Heavy Crude	1,686,158	1,680,925	1,684,463
NGL	82,279	83,902	77,011
US Domestic	51,303	85,530	56,432
<b>US Receipts</b>			
Light Crude	212	501	-
Heavy Crude	2,345	4,797	6,368
US Domestic	141,559	122,854	151,619
	<u>2,775,062</u>	<u>2,833,299</u>	<u>2,780,302</u>

**APPENDIX “D”**

Enbridge Energy, Limited Partnership  
 Volumes by Line Segment  
 As Required by Code of Federal Regulations Sec. 347.1 (e)(5)(v)

Line Segment	2020 Thousands of barrels per day	
	Average Available Daily Capacity <sup>2</sup>	Average Throughput
International border near Neche, North Dakota to Superior	2,890 <sup>2</sup>	2,622
Superior to Canadian border near Marysville (through the upper Great Lakes region) and Superior to Chicago Area	2,702	2,439
Chicago area to Canadian border near Marysville	626	439

<sup>1</sup> - Available daily capacity is the capacity made available to shippers. This capacity can either be lower than annual capacity (as a result of operational upsets, for example) or can exceed annual capacity through optimization efforts and efficiencies, such as through maintenance planning or fewer than anticipated unplanned outages.

<sup>2</sup> – Capacity measured ex-International Border near Neche, North Dakota

<sup>3</sup> – Capacity measured ex-Griffith, Indiana



## APPENDIX "E"

## List of Crude Oil Areas

**CONVENTIONAL CRUDE - OIL  
REMAINING ESTABLISHED RESERVES IN CANADA**

2019

Thousand cubic metres

	<b>Remaining Reserves at Previous Year</b>	<b>Remaining Reserves at Current Year</b>	<b>Net Change in Reserves</b>
<b>CRUDE OIL</b>			
British Columbia.....	18,349	16,645	-1,704
Alberta.....	270,671	269,800	-871
Saskatchewan.....	52,790	102,000	49,210
Manitoba.....	36,543	33,865	-2,678
Ontario.....	2,000	1,712	-288
Mainland Territories.....	6,902	6,469	-433
Eastcoast Offshore.....	384,300	267,300	-117,500
<b>Total</b>	<b>626,820</b>	<b>599,517</b>	<b>-27,304</b>
<b>Frontier Areas</b>			
Mackenzie/Beaufort.....	53,950	82,300	28,350
<b>Total Frontier Areas</b>	<b>53,950</b>	<b>82,300</b>	<b>28,350</b>
<b>TOTAL CRUDE OIL</b>	<b>825,505</b>	<b>780,091</b>	<b>-45,414</b>
<b>PENTANES PLUS</b>			
British Columbia.....	48,000	86,000	38,900
Alberta.....	40,400	38,200	-2,200
Eastcoast Offshore.....	4,268	4,268	-
<b>TOTAL PENTANES PLUS</b>	<b>92,668</b>	<b>128,468</b>	<b>35,800</b>
<b>TOTAL CRUDE OIL &amp; EQUIV</b>	<b>918,173</b>	<b>908,559</b>	<b>-9,614</b>

Note: Effective 2010 CAPP Reserves are based on provincial and NEB data. Year ends vary.

Conversion factor of cubic metres to barrels is 6.289811 times.

## APPENDIX "E"

## List of Crude Oil Areas

DEVELOPED NON-CONVENTIONAL CRUDE OIL  
REMAINING ESTABLISHED RESERVES IN CANADA

2019

Thousand cubic metres

	Remaining Reserves at Previous Year	Remaining Reserves at Current Year	Net Change in Reserves
<b>MINING – UPGRADED AND BITUMEN</b>			
Alberta.....	4,985,373	4,924,074	-61,299
<b>Total</b>	<b>4,985,373</b>	<b>4,924,074</b>	<b>-61,299</b>

Developed synthetic crude oil reserves are those recoverable from developed commercial projects.

**IN-SITU – BITUMEN**

Alberta.....	21,002,971	20,895,247	-107,724
<b>Total</b>	<b>21,002,971</b>	<b>20,895,247</b>	<b>-107,724</b>

Developed bitumen reserves are those recoverable from developed experimental/demonstration and commercial projects.

<b>TOTAL CRUDE OIL</b>	<b>25,988,344</b>	<b>25,819,321</b>	<b>-169,023</b>
------------------------	-------------------	-------------------	-----------------

Note: Effective 2010 CAPP Reserves are based on provincial and NEB data. Year ends vary.

Conversion factor of cubic metres to barrels is 6.289811 times.

Source: CAPP Statistical Handbook 2020

## List of Crude Oil Areas

### CANADIAN CRUDE OIL PRODUCTION BY MAJOR FIELDS

	2019 Production (M3)		Cumulative Production Cubic Metres
	Annual	Daily	
NORTHWEST TERRITORIES			
Norman Wells	435,300	1,193	43,856,580
BRITISH COLUMBIA			
Boundary Lake	254,088	696	38,550,996
Peejay	26,045	71	10,963,302
Milligan Creek	2,930	8	7,405,926
Eagle West	12,924	35	7,099,608
Inga	98	0	6,919,696
Hay River	156,927	430	5,867,331
Rigel	6,416	18	3,805,295
Weasel	9,361	26	3,765,438
ALBERTA			
Pembina	2,991,500	8,196	333,242,900
Swan Hills	673,100	1,844	148,962,300
Judy Creek	348,900	956	145,195,200
Redwater	387,200	1,061	142,636,200
Rainbow	222,500	610	114,953,200
Provost	2,390,600	6,550	111,785,800
Bonnie Glen	3,000	8	82,975,300
Nipisi	228,900	627	79,067,300
Leduc-Woodbend	584,400	1,601	65,089,100
Mitsue	132,600	363	64,471,600
Wizard Lake	5,500	15	54,364,300
Fenn Big Valley	201,500	552	54,109,700
Virginia Hills	103,300	283	36,950,200
Sturgeon Lake South	68,000	186	32,396,400
Willisden Green	780,200	2,138	32,105,700
Grand Forks	121,400	333	31,086,700
Golden Spike	12,900	35	30,994,900
Suffield	459,400	1,259	30,475,000
Carson Creek North	48,500	133	28,796,900
Valhalla	1,024,600	2,807	27,569,200
Lloydminster	232,600	637	27,377,900
Turner Valley	107,900	296	25,961,300
Countess	315,300	864	25,687,300
Kaybob	546,200	1,496	24,571,300
Westerose	29,000	79	23,715,800
Acheson	19,100	52	23,273,500
SASKATCHEWAN			
Weyburn	1,461,680	4,005	94,964,481
Steelman	541,961	1,485	53,799,868
Midale	545,769	1,495	32,888,643
Viewfield North	1,973,370	5,406	36,388,305
Battum	321,067	880	20,666,299
Doddsland	1,388,056	3,803	22,182,081
Celtic	526,792	1,443	19,747,220
Dollard	57,854	159	17,485,837
MANITOBA			
Virden	177,536	486	17,984,779
Daly Sinclair	1,528,613	4,188	20,145,889
Waskada	293,920	805	7,160,038
Pierson	283,164	776	4,315,396
ONTARIO			
All Fields	48,458	133	14,835,622
EASTCOAST OFFSHORE			
Hibernia	5,916,998	16,211	180,107,399
Terra Nova	1,790,133	4,904	67,575,174
White Rose/North Amethyst	1,003,169	2,748	47,748,457
Hebron	6,474,711	17,739	10,178,620
Cohasset/Panuke	0	0	7,062,019
NEW BRUNSWICK			
All Fields	1,043	3	161,090

**APPENDIX “F”**  
**Concentric Depreciation Study**



## **2021 TECHNICAL DEPRECIATION UPDATE Enbridge Lakehead System**

### **TECHNICAL UPDATE Calculated Annual Depreciation Accrual Rates Applicable to Plant in Service as of December 31, 2020**

Prepared May 2021

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May 7, 2021

Enbridge Energy, Limited Partnership  
5400 Westheimer Court  
Houston, TX USA  
77056-5310

Attention: Michael Hrynychshyn  
Director, Regulatory Strategy and Compliance

Dear: Mr. Hrynychshyn

Pursuant to your request, we have conducted a technical update to the previous depreciation study completed in October 2016 by Gannett Fleming Valuation and Rate Consultants, LLC. The calculated annual depreciation accrual rates presented in this 2021 update are related to the actual plant in service as of December 31, 2020. The depreciation rates are based on the straight-line, average life group procedure, applied on a remaining life basis.

We gratefully acknowledge the assistance of Enbridge personnel in the completion of this update.

Should you have any questions or concerns, please do not hesitate to contact me directly at 587-997-6489

Yours truly,

CONCENTRIC ADVISORS, ULC

A handwritten signature in blue ink, appearing to read "LEK", is positioned above the name Larry E. Kennedy.

Larry E. Kennedy  
Senior Vice President

A handwritten signature in blue ink, appearing to read "Amanda Nori", is positioned above the name Amanda Nori.

Amanda Nori  
Project Manager

Project: 03911  
LEK/ta



## TABLE OF CONTENTS

1	STUDY HIGHLIGHTS.....	1-1
2	BASIS OF THE UPDATE .....	2-1
2.1	Scope .....	2-1
2.1.1	Purpose of a Technical Update .....	2-1
2.2	Information Provided by Enbridge .....	2-2
2.3	Data Reconciliation .....	2-2
3	DEVELOPMENT OF THE REQUIRED DEPRECIATION RATES .....	3-1
3.1	Depreciation .....	3-1
3.2	Truncation Date.....	3-2
4	RESULTS OF UPDATE .....	4-1
4.1	Qualification of Results .....	4-1
4.2	Description of Detailed Tabulations .....	4-1
5	DETAILED DEPRECIATION CALCULATIONS.....	5-1



## SECTION 1

# 1 STUDY HIGHLIGHTS

---

Pursuant to a request from Enbridge Energy, Limited Partnership (“Enbridge” or the “Company”), Concentric Energy Advisors (“Concentric”) completed a Technical Update (“the Update”) to the results of the depreciation study filed by Enbridge in October 2016. The results of the Update contained herein relate to the oil transmission assets as of December 31, 2020. The purpose of the update is to determine the annual depreciation accrual rates and amounts for ratemaking purposes applicable to the original cost of plant as of December 31, 2020.

The depreciation rates in this update have been calculated using the same depreciation methods, procedures and techniques employed in the last Enbridge depreciation study.

Additionally, the depreciation rate calculations are based on the average service life and retirement dispersion estimates developed in the last full depreciation study. However, in this technical update, Enbridge Energy has proposed a December 31, 2040 truncation date. Concentric has reviewed the appropriateness of this truncation date for the purpose of calculating depreciation rates for its pipeline assets as of December 31, 2020 and find it appropriate at this time.





## SECTION 2

## 2 BASIS OF THE UPDATE

---

### 2.1 Scope

Concentric has been retained to develop a technical update to the depreciation study completed in 2016 for Enbridge. The purpose of the Update was to determine the annual depreciation accrual rates and amounts for ratemaking purposes applicable to the actual surviving original cost as of December 31, 2020 based on an updated estimate of the composite remaining lives for property account. The depreciation accrual rates presented herein are based on generally-accepted methods and procedures for calculating depreciation.

The annual depreciation accrual rates and amounts are based on the broad group straight line method of depreciation using the Average Life Group (“ALG”) procedure and were applied using the remaining life technique. The calculations were based on the actual plant accounting ledger values as of December 31, 2020. Inherent in the application of the depreciation parameters with the remaining life technique, the accumulated depreciation accounts are trued up of any variances between the actual book accumulated depreciation reserve and calculated accrued depreciation requirement are amortized over the composite remaining life of each group of assets.

#### 2.1.1 Purpose of a Technical Update

Concentric notes that the depreciation rates should be reviewed periodically as plant and accumulated depreciation account activity may result in materially different depreciation rates. The survivor curves and amortization periods determined in the Company’s most recent full depreciation study should be the basis for the periodic recalculations. Complete depreciation studies, which re-evaluate these parameters, should be performed periodically.

When depreciation rates are calculated utilizing a remaining life technique, the depreciation rate is established by dividing the undepreciated value of each group of assets (after consideration to the net salvage requirements) by the composite remaining life of the group of assets. This calculation is made for each vintage surviving investment as of the date of the study (or Update), and then composited into a calculation for the account or group as a whole. As follows, this calculation requires two estimates:

- The actual booked accumulated depreciation for each vintage within each account. Enbridge does not track the booked accumulated depreciation reserve by vintage within each account. The depreciation expense is calculated at an account level and booked to accumulated depreciation at the same account level. Concentric notes that this is the practice employed by virtually all regulated utilities and is a continuation of the practice used in the 2016 depreciation study. As such, the accumulated depreciation by account, is allocated within the account, to each vintage on the basis of the calculated accumulated by vintage. The calculated accumulated depreciation is a function of the estimated survivor curve, the average service life estimate, the truncation date and the achieved age of each vintage.



- The estimated remaining life of each vintage with each account. The estimated remaining life of each account is a direct function of the achieved age of each vintage, the estimated survivor curve and the average service life estimate, and the truncation date.

Once the above two estimates are determined (the allocated booked reserve by vintage and the average remaining life of each vintage) an annual accrual requirement for each vintage is determined by dividing the net book value for each vintage (considering the estimated future salvage requirements) by the average remaining life of the vintage. The annual requirement for each vintage is summed at the account level and divided into the sum of the accounts original cost surviving as of the study date to determine a required remaining life depreciation accrual rate for the account.

The calculations as described above are dependent upon the actual total account book depreciation and the estimated remaining life of each vintage. The depreciation rate can vary year over year due to plant addition and retirement activity. Additionally, the age of retirements in any given year can cause a required adjustment to the depreciation rate going forward, resulting in the need for this technical update.

## 2.2 Information Provided by Enbridge

Enbridge has provided Concentric with the required information as of December 31, 2020 for all accounts being studied in this Update. The information includes the following:

- current balances by vintage year for each account (aged balances). The balances provide the amount of investment sorted by installation year currently in operation. The actual 2020 transaction plant accounting data was forwarded directly from Enbridge to Concentric so that the 2016 files could be updated through December 31, 2020;
- the actual booked accumulated depreciation amounts by account as of December 31, 2020 were forwarded directly from Enbridge to Concentric; and
- the last full depreciation study was provided to Concentric to use in the determination of prior depreciation practices and approved depreciation parameters.

## 2.3 Data Reconciliation

The above data was reviewed and reconciled to Company control schedules to ensure accuracy and reasonableness in use of the calculations developed in this Update. These checks include:

- that the surviving investment by account equals (or can be reconciled to) the Company's gross plant in service and accumulated depreciation ledger balances; and
- that the surviving investment in each vintage is not negative. In other words, this check confirms that the sum of retirements from any given vintage have not exceeded the amount of plant additions to the vintage.



## SECTION 3

### 3 DEVELOPMENT OF THE REQUIRED DEPRECIATION RATES

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#### 3.1 Depreciation

The development of the depreciation calculations requires the input of an Average Service Life, Iowa curve and a Truncation Date (otherwise referred to as Economic Life, Economic Planning Horizon, or Life Spans dates) (the “depreciation parameters”). Additionally, to complete the depreciation calculations, the calculation methods must be established. Specifically, the selection of the depreciation method must establish three types of additional input:

- the choice of a depreciation method;
- a basis upon which to apply the method, and
- in the case of group assets, a procedure to use in grouping the assets.

In this Update, the depreciation rates for Enbridge have been calculated in accordance with the Straight-Line method, the Average Life Group procedure and applied using the Remaining Life technique.

Depreciation in public utility regulation, is the loss in service value not restored by current maintenance, incurred with the consumption or prospective retirement of utility plant in service from causes which are known to be in current operation and against which the utility is not protected by insurance. Among causes to be given consideration are: wear and tear; deterioration; action of the elements; inadequacy; obsolescence; changes in the art; changes in demand; and the requirements of public authorities. When considering the action of the elements, the average service life calculations have considered large catastrophic events that have occurred and impacted the life estimates of utilities across North America. The average service life of utilities has been influenced by events including forest fires, earthquakes, tornadoes, ice storms, windstorms, large scale flooding, fires, intentional actions of third parties and other natural forces of nature.

Depreciation, as used in accounting, is a method of distributing fixed capital costs less net salvage over a period of time by allocating annual amounts to expense. Each annual amount of such depreciation expense is part of that year's total cost of providing oil utility service. Normally, the time over which the fixed capital cost is allocated to the cost of service, is equal to the time over which an item renders service, that is the item's service life. The most prevalent method of allocation is to distribute an equal amount of cost to each year of service life. This method is known as the Straight-Line method of depreciation.

This update uses the average service life and Iowa curve dispersion estimates as approved in the last full Enbridge depreciation study. Imbedded in the remaining life calculations, the variances between the calculated accrued depreciation and the book accumulated depreciation are amortized over the composite remaining life of each account.

The review of the truncation date used in the calculations is discussed in the sections below.



### 3.2 Truncation Date

Long life assets such as those in the Lakeheads's transmission system are impacted not only by physical forces of retirement such as wear and tear and physical deterioration, but also, and to a much greater extent, by economic forces of retirement. Generally, physical forces of retirement are less likely to occur than the retirement of large portions of the pipeline system due to economic forces. Specifically, the economic exhaustion of crude oil supply, the changing North American marketplace for fossil fuels, and the competitive influences in the Western Canada Sedimentary Basin have a significant impact on the estimated service lives of the Lakehead transmission system. As such, Concentric recommended that the company undertake an internal review of the long-term crude oil supply and demand factors to ensure that the remaining life calculations will be based on the most current estimate of these economic factors.

Long life assets, such as crude oil pipelines, are subject to a number of different forces of economic retirement, including increased competition, changes in either supply or market conditions or other factors that can cause a change in utilization of a pipeline system. The concept referred to with the terms "economic life" or "economic planning horizon" or "truncation date" (which have similar meaning within depreciation literature) is the key parameter used to set appropriate depreciation rates that accurately reflect the annual consumption in service value. Appropriate depreciation rates also help to ensure that both long term generational equity and a reasonable opportunity for the recovery of investment are achievable.

Ultimately the risk of recovery of a pipeline's investment which is its fundamental risk, rests with the pipeline company to manage through such tools as depreciation studies and capitalization policy. Moreover, this fundamental risk is asymmetric. If, in the fullness of time, Enbridge's truncation date turns out to be too short shippers ultimately benefit through a lower future rate base and rates. On the other hand, should the truncation date have been set too long then the pipeline may be unable to charge rates to allow it to recover its remaining investment. Concentric notes that pipelines should be afforded a degree of latitude to manage this risk through the tools at their disposal.

Concentric has reviewed the Enbridge analysis of Crude Oil Supply, Canadian Specific Supply, and the Crude Oil Demand Outlook, which has incorporated both Canadian and United States Demand. Concentric notes the factors considered are all relevant and consistent with the analysis that is required for the determination of a truncation date to use in the development of depreciation rates for a regulated pipeline system.

The December 31, 2040 truncation date is incorporated in the estimated survivor characteristics by truncating the survivor curve which represents the physical life of the facilities in all accounts at the attained age of each vintage as of the truncation date.



## SECTION 4

## 4 RESULTS OF UPDATE

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### 4.1 Qualification of Results

The calculated annual and accrued depreciation are the principal results of the update. Continued surveillance and periodic revisions are normally required to maintain continued use of appropriate annual depreciation accrual rates. An assumption that accrual rates can remain unchanged over a long period of time implies a disregard for the inherent variability in service lives, and for the change of the composition of property in service. The annual accrual rates and the accrued depreciation were calculated in accordance with the Straight-line method, using the ALG procedure based on estimates which reflect considerations of current historical evidence and expected future conditions.

### 4.2 Description of Detailed Tabulations

The following tables provide summaries by account of the original cost of investment, calculated and booked accumulated depreciation amounts, the required amount of annual depreciation expense, the required depreciation rate to be applied against the original cost of the account and the estimated composite remaining life of the surviving plant in service.

The detailed calculations of annual depreciation applicable to depreciable assets, as of December 31, 2020, are presented in account sequence starting in Section 5. The tables indicate the estimated average survivor curves used in the calculations. The tables set forth (for each installation year) the original cost, calculated accrued depreciation and the calculated annual accrual.

**ENBRIDGE ENERGY, LIMITED PARTNERSHIP**
**TABLE 1 - ESTIMATED SURVIVOR CURVE, ORIGINAL COST, BOOK DEPRECIATION RESERVE AND CALCULATED ANNUAL DEPRECIATION ACCRUALS RELATED TO UTILITY PLANT AS OF DECEMBER 31, 2020  
DEPRECIATION RELATED TO RECOVERY OF ORIGINAL COST OF INVESTMENT**

Account	Account Description (1)	Survivor Curve (2)	Net Salvage (3)	Truncation Date (4)	Original Cost as of Dec. 31, 2020 (5)	Book Depreciation Reserve (6)	Future Accruals (7)	Calculated Annual Accrual Amount (8)	Calculated Annual Accrual Rate (9)	Composite Remaining Life (10)
<b>DEPRECIABLE PLANT STUDIED</b>										
152	Rights of Way	70-R4	0	2040	31,997,295	-6,501,664	38,498,959	2,093,434	6.54	18.39
153	Line Pipe	70-R1.5	0	2040	811,849,277	197,672,959	614,176,318	33,126,542	4.08	18.54
154	Pipe Line Fittings	55-R2	0	2040	163,989,450	35,266,183	128,723,267	6,885,374	4.20	18.70
155	Pipe Line Construction	75-R2.5	0	2040	723,744,952	285,919,575	437,825,377	23,189,931	3.20	18.88
156	Buildings	60-R2	0	2040	115,760,490	59,368,433	56,392,057	3,070,867	2.65	18.36
158	Pumping Equipment	45-S0	0	2040	73,214,013	47,184,630	26,029,383	1,530,111	2.09	17.01
160	Other Station Equipment	50-R2	0	2040	702,018,050	297,072,321	404,945,729	22,332,072	3.18	18.13
161	Oil Tanks	60-S2.5	0	2040	207,172,506	73,477,277	133,695,229	7,015,647	3.39	19.06
163	Communication Systems	30-R2	0	2040	17,164,746	6,862,055	10,302,691	663,325	3.86	15.53
164	Office Furniture and Equipment			2040	32,651,697	28,099,879	4,551,818	798,508	2.45	5.70
165	Vehicles and Other Work Equipment			2040	81,352,576	75,709,325	5,643,251	642,922	0.79	8.78
166	Other Property	25-SQ	0	2040	11,035,531	9,990,692	1,044,839	53,581	0.49	19.50
<b>TOTAL PLANT</b>					<b>2,971,950,583</b>	<b>1,110,121,665</b>	<b>1,861,828,918</b>	<b>101,402,313</b>		



SECTION 5

## **5 DETAILED DEPRECIATION CALCULATIONS**

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# Enbridge Energy, Limited Partnership

Account #: 15200 - Rights of Way

## CALCULATED ANNUAL ACCRUAL AND ACCRUED DEPRECIATION

BASED ON ORIGINAL COST AS OF December 31, 2020

ALG - Remaining Life

Survivor Curve: R4

ASL: 70

Net Salvage: 0%

Truncation Year: 2040

Year	Original Cost	Calculated Accumulated Depreciation	Allocated Actual Booked Amount	Accumulated Depreciation Factor	Net Book Value	ALG Remaining Life	Annual Accrual	Average Age
1950	304,760.74	262,929	-135,076	-0.4432	439,837	9.61	45,777	70.5
1952	50.00	43	-22	-0.4377	72	10.36	7	68.5
1953	41,814.67	35,393	-18,182	-0.4348	59,997	10.75	5,582	67.5
1954	493,272.11	414,605	-212,998	-0.4318	706,270	11.14	63,383	66.5
1955	1,603.90	1,338	-688	-0.4287	2,291	11.54	198	65.5
1956	24,292.50	20,121	-10,337	-0.4255	34,630	11.95	2,899	64.5
1957	32,963.55	27,098	-13,921	-0.4223	46,885	12.35	3,797	63.5
1958	2,900.24	2,366	-1,215	-0.4191	4,116	12.75	323	62.5
1959	2,944.60	2,384	-1,225	-0.4159	4,169	13.14	317	61.5
1960	6,588.90	5,292	-2,719	-0.4126	9,308	13.52	688	60.5
1962	15,330.35	12,124	-6,229	-0.4063	21,559	14.25	1,513	58.5
1963	173,577.18	136,228	-69,985	-0.4032	243,562	14.59	16,699	57.5
1965	9,780.06	7,561	-3,884	-0.3971	13,664	15.21	899	55.5
1967	56,469.59	43,009	-22,095	-0.3913	78,565	15.76	4,985	53.5
1968	831,332.30	628,509	-322,887	-0.3884	1,154,220	16.01	72,093	52.5
1969	978,055.31	733,975	-377,069	-0.3855	1,355,124	16.25	83,415	51.5
1970	128,511.53	95,729	-49,179	-0.3827	177,691	16.46	10,792	50.5
1971	32,093.75	23,729	-12,191	-0.3798	44,284	16.67	2,656	49.5
1972	20,974.46	15,392	-7,907	-0.3770	28,882	16.86	1,713	48.5
1973	54,022.76	39,345	-20,213	-0.3742	74,236	17.04	4,356	47.5
1974	785,216.13	567,482	-291,536	-0.3713	1,076,752	17.21	62,571	46.5
1975	62,965.60	45,151	-23,196	-0.3684	86,161	17.37	4,962	45.5
1976	1,170,345.00	832,518	-427,694	-0.3654	1,598,039	17.51	91,245	44.5
1977	1,000.00	706	-362	-0.3625	1,362	17.65	77	43.5
1979	33,788.18	23,435	-12,039	-0.3563	45,828	17.91	2,559	41.5
1981	21,568.36	14,690	-7,547	-0.3499	29,115	18.14	1,605	39.5
1986	58,977.11	38,156	-19,602	-0.3324	78,579	18.60	4,224	34.5
1987	30,397.84	19,441	-9,987	-0.3286	40,385	18.68	2,162	33.5



# Enbridge Energy, Limited Partnership

Account #: 15200 - Rights of Way

## CALCULATED ANNUAL ACCRUAL AND ACCRUED DEPRECIATION

BASED ON ORIGINAL COST AS OF December 31, 2020

ALG - Remaining Life

Survivor Curve: R4

ASL: 70

Net Salvage: 0%

Truncation Year: 2040

Year	Original Cost	Calculated Accumulated Depreciation	Allocated Actual Booked Amount	Accumulated Depreciation Factor	Net Book Value	ALG Remaining Life	Annual Accrual	Average Age
1988	118,965.07	75,173	-38,619	-0.3246	157,584	18.75	8,403	32.5
1992	811,613.54	485,861	-249,604	-0.3075	1,061,218	18.99	55,875	28.5
1993	218,987.19	129,107	-66,327	-0.3029	285,314	19.04	14,984	27.5
1994	402,465.86	233,489	-119,951	-0.2980	522,417	19.09	27,370	26.5
1995	8,119.50	4,631	-2,379	-0.2930	10,499	19.13	549	25.5
1997	251,390.99	138,145	-70,970	-0.2823	322,361	19.20	16,788	23.5
1998	3,240,604.13	1,744,828	-896,380	-0.2766	4,136,984	19.23	215,096	22.5
1999	1,351,160.59	711,825	-365,690	-0.2706	1,716,850	19.26	89,131	21.5
2001	1,581.09	794	-408	-0.2579	1,989	19.31	103	19.5
2002	2,047,979.78	1,000,582	-514,035	-0.2510	2,562,014	19.33	132,515	18.5
2003	275,542.11	130,746	-67,169	-0.2438	342,711	19.35	17,708	17.5
2004	124,117.00	57,055	-29,311	-0.2362	153,428	19.37	7,921	16.5
2005	77,403.69	34,371	-17,657	-0.2281	95,061	19.39	4,904	15.5
2007	118,356.91	48,526	-24,929	-0.2106	143,286	19.41	7,381	13.5
2008	1,043,279.09	408,349	-209,784	-0.2011	1,253,063	19.42	64,511	12.5
2011	774,150.70	253,982	-130,480	-0.1685	904,630	19.45	46,510	9.5
2012	2,531,822.06	769,641	-395,392	-0.1562	2,927,214	19.46	150,444	8.5
2014	830,983.86	207,985	-106,849	-0.1286	937,833	19.47	48,172	6.5
2015	5,996,188.49	1,320,571	-678,424	-0.1131	6,674,612	19.47	342,764	5.5
2017	4,100,556.73	624,611	-320,885	-0.0783	4,421,442	19.48	226,970	3.5
2018	1,635,704.86	186,064	-95,588	-0.0584	1,731,292	19.48	88,860	2.5
2019	517,095.56	36,980	-18,998	-0.0367	536,093	19.49	27,512	1.5
2020	143,629.94	3,599	-1,849	-0.0129	145,479	19.49	7,465	0.5

# Enbridge Energy, Limited Partnership

Account #: 15200 - Rights of Way

CALCULATED ANNUAL ACCRUAL AND ACCRUED DEPRECIATION  
BASED ON ORIGINAL COST AS OF December 31, 2020

ALG - Remaining Life  
Survivor Curve: R4  
ASL: 70  
Net Salvage: 0%  
Truncation Year: 2040

Year	Original Cost	Calculated Accumulated Depreciation	Allocated Actual Booked Amount	Accumulated Depreciation Factor	Net Book Value	ALG Remaining Life	Annual Accrual	Average Age
TOTAL	31,997,295.46	12,655,664	-6,501,664		38,498,959		2,093,434	
COMPOSITE ANNUAL ACCRUAL RATE				6.54%				
THEORETICAL ACCUMULATED DEPRECIATION FACTOR				-0.20				
COMPOSITE AVERAGE AGE (YEARS)				18.05				
ALG COMPOSITE REMAINING LIFE (YEARS)				18.39				

# Enbridge Energy, Limited Partnership

Account #: 15300 - Line Pipe

## CALCULATED ANNUAL ACCRUAL AND ACCRUED DEPRECIATION

BASED ON ORIGINAL COST AS OF December 31, 2020

ALG - Remaining Life

Survivor Curve: R1.5

ASL: 70

Net Salvage: 0%

Truncation Year: 2040

Year	Original Cost	Calculated Accumulated Depreciation	Allocated Actual Booked Amount	Accumulated Depreciation Factor	Net Book Value	ALG Remaining Life	Annual Accrual	Average Age
1950	5,950,355.99	4,626,343	3,254,253	0.5469	2,696,103	14.77	182,479	70.5
1954	15,733,567.55	12,046,203	8,473,515	0.5386	7,260,053	15.28	475,240	66.5
1955	38,069.72	29,031	20,421	0.5364	17,649	15.40	1,146	65.5
1956	1,902,472.86	1,444,829	1,016,319	0.5342	886,154	15.51	57,117	64.5
1957	3,151,438.54	2,383,374	1,676,508	0.5320	1,474,931	15.63	94,363	63.5
1959	30.08	23	16	0.5274	14	15.85	1	61.5
1960	77.07	58	40	0.5251	37	15.96	2	60.5
1962	2,201,312.67	1,628,178	1,145,290	0.5203	1,056,023	16.17	65,297	58.5
1963	6,921,667.04	5,095,258	3,584,096	0.5178	3,337,571	16.27	205,093	57.5
1964	92.24	68	48	0.5153	45	16.37	3	56.5
1965	674,795.11	491,859	345,982	0.5127	328,813	16.47	19,967	55.5
1967	6,543,403.04	4,720,202	3,320,274	0.5074	3,223,129	16.65	193,549	53.5
1968	29,059,033.28	20,849,373	14,665,822	0.5047	14,393,211	16.74	859,750	52.5
1969	6,753,353.84	4,818,524	3,389,436	0.5019	3,363,918	16.83	199,905	51.5
1970	1,339.00	950	668	0.4990	671	16.91	40	50.5
1972	6,526,238.67	4,574,839	3,218,023	0.4931	3,308,215	17.07	193,784	48.5
1973	9,560,568.91	6,660,016	4,684,775	0.4900	4,875,794	17.15	284,333	47.5
1974	49,653.58	34,366	24,174	0.4868	25,480	17.22	1,479	46.5
1977	663.24	450	316	0.4768	347	17.43	20	43.5
1981	218,050.51	143,232	100,752	0.4621	117,299	17.68	6,634	39.5
1982	13,343.60	8,689	6,112	0.4581	7,231	17.74	408	38.5
1983	1,291.80	834	586	0.4540	705	17.79	40	37.5
1985	5,200.64	3,292	2,316	0.4453	2,885	17.90	161	35.5
1986	4,535,018.40	2,841,430	1,998,713	0.4407	2,536,306	17.95	141,301	34.5
1987	1,016.48	630	443	0.4360	573	18.00	32	33.5
1988	4,044,212.06	2,478,579	1,743,477	0.4311	2,300,735	18.04	127,504	32.5
1989	771.12	467	329	0.4260	443	18.09	24	31.5
1991	1,260.17	744	523	0.4152	737	18.17	41	29.5

# Enbridge Energy, Limited Partnership

Account #: 15300 - Line Pipe

## CALCULATED ANNUAL ACCRUAL AND ACCRUED DEPRECIATION

BASED ON ORIGINAL COST AS OF December 31, 2020

ALG - Remaining Life

Survivor Curve: R1.5

ASL: 70

Net Salvage: 0%

Truncation Year: 2040

Year	Original Cost	Calculated Accumulated Depreciation	Allocated Actual Booked Amount	Accumulated Depreciation Factor	Net Book Value	ALG Remaining Life	Annual Accrual	Average Age
1993	8,509.56	4,882	3,434	0.4036	5,075	18.25	278	27.5
1994	15,980,467.30	9,027,573	6,350,156	0.3974	9,630,311	18.29	526,523	26.5
1995	104,665.23	58,163	40,913	0.3909	63,753	18.33	3,479	25.5
1997	3,610,972.31	1,935,521	1,361,480	0.3770	2,249,492	18.39	122,292	23.5
1998	83,831,990.94	44,051,357	30,986,513	0.3696	52,845,478	18.43	2,867,909	22.5
1999	38,977,786.65	20,050,936	14,104,187	0.3619	24,873,599	18.46	1,347,615	21.5
2002	16,678,572.98	7,968,875	5,605,449	0.3361	11,073,124	18.54	597,130	18.5
2003	643,050.96	298,547	210,003	0.3266	433,048	18.57	23,319	17.5
2004	6,515,627.56	2,931,925	2,062,369	0.3165	4,453,259	18.60	239,466	16.5
2005	258,847.23	112,569	79,183	0.3059	179,664	18.62	9,648	15.5
2007	6,098,430.40	2,451,173	1,724,199	0.2827	4,374,231	18.67	234,298	13.5
2009	2,282,850.97	832,583	585,654	0.2565	1,697,197	18.71	90,688	11.5
2011	2,452.59	791	556	0.2267	1,897	18.76	101	9.5
2012	58,282,812.38	17,418,207	12,252,279	0.2102	46,030,534	18.78	2,451,368	8.5
2013	262,268,126.55	71,765,519	50,481,151	0.1925	211,786,976	18.80	11,266,826	7.5
2014	25,233,010.48	6,219,016	4,374,567	0.1734	20,858,443	18.82	1,108,503	6.5
2015	96,037.00	20,851	14,667	0.1527	81,370	18.84	4,320	5.5
2016	45,952,891.79	8,514,940	5,989,561	0.1303	39,963,331	18.85	2,119,613	4.5
2017	44,491,322.37	6,705,374	4,716,680	0.1060	39,774,642	18.87	2,107,605	3.5
2018	9,235,243.03	1,043,239	733,833	0.0795	8,501,410	18.89	450,058	2.5
2019	53,662,534.48	3,842,884	2,703,154	0.0504	50,959,381	18.91	2,695,312	1.5
2020	33,744,777.43	881,048	619,745	0.0184	33,125,033	18.92	1,750,478	0.5

# Enbridge Energy, Limited Partnership

Account #: 15300 - Line Pipe

CALCULATED ANNUAL ACCRUAL AND ACCRUED DEPRECIATION  
BASED ON ORIGINAL COST AS OF December 31, 2020

ALG - Remaining Life  
Survivor Curve: R1.5  
ASL: 70  
Net Salvage: 0%  
Truncation Year: 2040

Year	Original Cost	Calculated Accumulated Depreciation	Allocated Actual Booked Amount	Accumulated Depreciation Factor	Net Book Value	ALG Remaining Life	Annual Accrual	Average Age
TOTAL	811,849,277.40	281,017,810	197,672,959		614,176,318		33,126,542	
COMPOSITE ANNUAL ACCRUAL RATE				4.08%				
THEORETICAL ACCUMULATED DEPRECIATION FACTOR				0.24				
COMPOSITE AVERAGE AGE (YEARS)				15.44				
ALG COMPOSITE REMAINING LIFE (YEARS)				18.54				

# Enbridge Energy, Limited Partnership

Account #: 15400 - Pipe Line Fittings

CALCULATED ANNUAL ACCRUAL AND ACCRUED DEPRECIATION

BASED ON ORIGINAL COST AS OF December 31, 2020

ALG - Remaining Life

Survivor Curve: R2

ASL: 55

Net Salvage: 0%

Truncation Year: 2040

Year	Original Cost	Calculated Accumulated Depreciation	Allocated Actual Booked Amount	Accumulated Depreciation Factor	Net Book Value	ALG Remaining Life	Annual Accrual	Average Age
1950	58,411.05	49,083	44,266	0.7578	14,145	8.78	1,610	70.5
1954	352,772.95	289,754	261,314	0.7407	91,459	9.83	9,309	66.5
1955	1,455.16	1,188	1,072	0.7365	383	10.08	38	65.5
1956	22,023.98	17,884	16,129	0.7323	5,895	10.34	570	64.5
1957	42,153.89	34,034	30,693	0.7281	11,460	10.59	1,082	63.5
1959	2,633.29	2,101	1,895	0.7196	738	11.10	66	61.5
1961	4,816.33	3,795	3,422	0.7106	1,394	11.61	120	59.5
1962	100,270.55	78,497	70,793	0.7060	29,478	11.86	2,486	58.5
1963	91,249.89	70,970	64,005	0.7014	27,245	12.10	2,251	57.5
1964	3,622.16	2,799	2,524	0.6968	1,098	12.35	89	56.5
1965	88,286.41	67,755	61,105	0.6921	27,182	12.59	2,159	55.5
1967	172,494.30	130,566	117,751	0.6826	54,743	13.07	4,189	53.5
1968	155,226.83	116,669	105,218	0.6778	50,009	13.30	3,760	52.5
1969	169,887.59	126,774	114,331	0.6730	55,556	13.53	4,106	51.5
1970	16,392.07	12,143	10,951	0.6681	5,441	13.76	396	50.5
1971	20,607.95	15,153	13,666	0.6631	6,942	13.98	497	49.5
1972	784,606.13	572,563	516,366	0.6581	268,240	14.19	18,901	48.5
1973	676,548.36	489,905	441,821	0.6531	234,728	14.40	16,297	47.5
1974	437,315.99	314,182	283,345	0.6479	153,971	14.61	10,540	46.5
1975	39,484.45	28,139	25,377	0.6427	14,107	14.81	953	45.5
1976	22,677.92	16,029	14,456	0.6374	8,222	15.00	548	44.5
1977	45,136.45	31,635	28,530	0.6321	16,606	15.19	1,093	43.5
1978	447.82	311	281	0.6266	167	15.38	11	42.5
1979	286,447.85	197,278	177,915	0.6211	108,532	15.55	6,978	41.5
1980	59,488.57	40,598	36,613	0.6155	22,875	15.72	1,455	40.5
1981	398,103.13	269,149	242,732	0.6097	155,371	15.89	9,778	39.5
1983	161,529.15	107,079	96,569	0.5978	64,960	16.20	4,009	37.5
1984	82,896.13	54,387	49,049	0.5917	33,847	16.35	2,070	36.5

# Enbridge Energy, Limited Partnership

Account #: 15400 - Pipe Line Fittings

## CALCULATED ANNUAL ACCRUAL AND ACCRUED DEPRECIATION

BASED ON ORIGINAL COST AS OF December 31, 2020

ALG - Remaining Life

Survivor Curve: R2

ASL: 55

Net Salvage: 0%

Truncation Year: 2040

Year	Original Cost	Calculated Accumulated Depreciation	Allocated Actual Booked Amount	Accumulated Depreciation Factor	Net Book Value	ALG Remaining Life	Annual Accrual	Average Age
1985	831,343.24	539,629	486,665	0.5854	344,679	16.49	20,897	35.5
1986	1,294,907.23	831,247	749,660	0.5789	545,247	16.63	32,785	34.5
1987	391,112.82	248,187	223,828	0.5723	167,285	16.76	9,980	33.5
1988	335,638.27	210,438	189,784	0.5654	145,854	16.89	8,636	32.5
1989	468,848.64	290,291	261,799	0.5584	207,050	17.01	12,172	31.5
1990	361,934.43	221,172	199,464	0.5511	162,471	17.13	9,487	30.5
1991	122,513.82	73,844	66,596	0.5436	55,918	17.24	3,244	29.5
1992	1,014,113.37	602,488	543,354	0.5358	470,760	17.34	27,143	28.5
1993	1,513,261.39	885,488	798,578	0.5277	714,684	17.45	40,966	27.5
1994	1,036,345.95	596,784	538,209	0.5193	498,137	17.54	28,395	26.5
1995	482,841.71	273,380	246,548	0.5106	236,294	17.64	13,398	25.5
1996	1,028,611.36	572,041	515,895	0.5015	512,716	17.73	28,925	24.5
1997	1,597,815.19	871,837	786,266	0.4921	811,549	17.81	45,565	23.5
1998	4,732,247.02	2,530,310	2,281,961	0.4822	2,450,286	17.89	136,946	22.5
1999	955,492.24	499,957	450,886	0.4719	504,606	17.97	28,080	21.5
2000	45,932.65	23,483	21,178	0.4611	24,754	18.04	1,372	20.5
2001	34,232.00	17,071	15,395	0.4497	18,837	18.12	1,040	19.5
2002	3,093,569.44	1,501,823	1,354,419	0.4378	1,739,150	18.18	95,643	18.5
2003	1,700,877.86	802,081	723,357	0.4253	977,521	18.25	53,567	17.5
2004	2,315,326.26	1,057,926	954,091	0.4121	1,361,236	18.31	74,341	16.5
2005	228,251.68	100,763	90,873	0.3981	137,378	18.37	7,478	15.5
2009	273,441.63	101,123	91,198	0.3335	182,244	18.58	9,808	11.5
2010	8,366,455.23	2,919,541	2,632,989	0.3147	5,733,466	18.63	307,770	10.5
2011	12,138.32	3,965	3,576	0.2946	8,562	18.67	458	9.5
2012	2,545,354.87	770,750	695,101	0.2731	1,850,254	18.72	98,853	8.5
2013	3,252,595.21	901,569	813,080	0.2500	2,439,515	18.76	130,050	7.5
2014	19,447,121.00	4,854,016	4,377,596	0.2251	15,069,525	18.80	801,674	6.5
2015	14,589,698.59	3,207,089	2,892,314	0.1982	11,697,384	18.84	621,044	5.5

Enbridge Energy, Limited Partnership

Account #: 15400 - Pipe Line Fittings

CALCULATED ANNUAL ACCRUAL AND ACCRUED DEPRECIATION  
BASED ON ORIGINAL COST AS OF December 31, 2020

ALG - Remaining Life  
Survivor Curve: R2  
ASL: 55  
Net Salvage: 0%  
Truncation Year: 2040

Year	Original Cost	Calculated Accumulated Depreciation	Allocated Actual Booked Amount	Accumulated Depreciation Factor	Net Book Value	ALG Remaining Life	Annual Accrual	Average Age
2016	26,037,157.17	4,883,440	4,404,131	0.1691	21,633,026	18.87	1,146,371	4.5
2017	25,182,618.64	3,840,252	3,463,331	0.1375	21,719,287	18.91	1,148,860	3.5
2019	16,802,797.10	1,216,132	1,096,769	0.0653	15,706,028	18.97	827,994	1.5
2020	19,597,869.00	515,721	465,103	0.0237	19,132,766	19.00	1,007,073	0.5
TOTAL	163,989,449.68	39,104,259	35,266,183		128,723,267		6,885,374	

COMPOSITE ANNUAL ACCRUAL RATE	4.20%
THEORETICAL ACCUMULATED DEPRECIATION FACTOR	0.22
COMPOSITE AVERAGE AGE (YEARS)	8.25
ALG COMPOSITE REMAINING LIFE (YEARS)	18.70



# Enbridge Energy, Limited Partnership

Account #: 15500 - Pipe Line Construction

## CALCULATED ANNUAL ACCRUAL AND ACCRUED DEPRECIATION

BASED ON ORIGINAL COST AS OF December 31, 2020

ALG - Remaining Life

Survivor Curve: R2.5

ASL: 75

Net Salvage: 0%

Truncation Year: 2040

Year	Original Cost	Calculated Accumulated Depreciation	Allocated Actual Booked Amount	Accumulated Depreciation Factor	Net Book Value	ALG Remaining Life	Annual Accrual	Average Age
1950	6,383,913.23	5,106,014	4,261,542	0.6675	2,122,371	14.38	147,599	70.5
1951	1,639.73	1,306	1,090	0.6647	550	14.56	38	69.5
1952	4,817.99	3,821	3,189	0.6618	1,629	14.74	110	68.5
1954	786,911.23	618,511	516,217	0.6560	270,694	15.09	17,937	66.5
1955	4,288.51	3,356	2,801	0.6530	1,488	15.26	98	65.5
1956	750,961.12	584,915	488,177	0.6501	262,784	15.42	17,036	64.5
1957	2,052,847.12	1,591,509	1,328,293	0.6470	724,554	15.59	46,488	63.5
1959	1,424.61	1,094	913	0.6409	512	15.89	32	61.5
1960	2,468.09	1,886	1,574	0.6378	894	16.04	56	60.5
1962	1,913,425.47	1,447,770	1,208,326	0.6315	705,099	16.32	43,205	58.5
1963	4,511,372.54	3,396,030	2,834,368	0.6283	1,677,004	16.45	101,926	57.5
1964	15,179.14	11,367	9,487	0.6250	5,692	16.58	343	56.5
1965	363,580.24	270,832	226,039	0.6217	137,541	16.70	8,234	55.5
1968	300,933.59	220,474	184,010	0.6115	116,923	17.04	6,860	52.5
1969	1,751,932.83	1,276,103	1,065,051	0.6079	686,882	17.15	40,051	51.5
1970	565,788.67	409,681	341,925	0.6043	223,864	17.25	12,977	50.5
1971	76,332.46	54,936	45,851	0.6007	30,482	17.35	1,757	49.5
1972	9,192,495.55	6,574,531	5,487,184	0.5969	3,705,311	17.44	212,468	48.5
1973	10,914,240.58	7,755,895	6,473,166	0.5931	4,441,075	17.53	253,373	47.5
1974	916,372.91	646,901	539,912	0.5892	376,461	17.61	21,375	46.5
1975	48,183.15	33,783	28,195	0.5852	19,988	17.69	1,130	45.5
1976	186,830.78	130,072	108,560	0.5811	78,271	17.77	4,404	44.5
1977	46,225.34	31,949	26,665	0.5768	19,560	17.85	1,096	43.5
1978	36,966.90	25,358	21,164	0.5725	15,803	17.92	882	42.5
1979	486,840.65	331,356	276,554	0.5681	210,287	17.99	11,692	41.5
1980	198,131.86	133,766	111,643	0.5635	86,489	18.05	4,791	40.5
1981	815,303.33	545,826	455,553	0.5588	359,750	18.11	19,860	39.5
1982	100,345.80	66,594	55,580	0.5539	44,766	18.17	2,463	38.5

# Enbridge Energy, Limited Partnership

Account #: 15500 - Pipe Line Construction

## CALCULATED ANNUAL ACCRUAL AND ACCRUED DEPRECIATION

BASED ON ORIGINAL COST AS OF December 31, 2020

ALG - Remaining Life

Survivor Curve: R2.5

ASL: 75

Net Salvage: 0%

Truncation Year: 2040

Year	Original Cost	Calculated Accumulated Depreciation	Allocated Actual Booked Amount	Accumulated Depreciation Factor	Net Book Value	ALG Remaining Life	Annual Accrual	Average Age
1983	329,799.31	216,885	181,015	0.5489	148,784	18.23	8,161	37.5
1984	145,129.48	94,538	78,903	0.5437	66,227	18.29	3,622	36.5
1985	866,108.76	558,618	466,229	0.5383	399,879	18.34	21,803	35.5
1986	9,403,190.48	6,002,287	5,009,583	0.5328	4,393,608	18.39	238,901	34.5
1987	719,520.55	454,325	379,185	0.5270	340,335	18.44	18,456	33.5
1988	13,365,081.88	8,343,584	6,963,658	0.5210	6,401,423	18.49	346,267	32.5
1989	1,487,192.37	917,406	765,679	0.5148	721,514	18.53	38,934	31.5
1990	589,959.80	359,383	299,946	0.5084	290,014	18.58	15,613	30.5
1991	571,534.13	343,583	286,759	0.5017	284,775	18.62	15,297	29.5
1992	1,013,384.21	600,767	501,408	0.4948	511,976	18.66	27,442	28.5
1993	1,936,478.49	1,131,196	944,110	0.4875	992,368	18.69	53,082	27.5
1994	39,323,613.06	22,615,181	18,874,909	0.4800	20,448,704	18.73	1,091,667	26.5
1995	4,525,282.61	2,559,797	2,136,439	0.4721	2,388,844	18.77	127,291	25.5
1996	942,874.65	524,047	437,376	0.4639	505,498	18.80	26,887	24.5
1997	8,105,982.39	4,421,654	3,690,367	0.4553	4,415,615	18.83	234,459	23.5
1998	228,526,527.08	122,188,799	101,980,279	0.4463	126,546,248	18.86	6,708,263	22.5
1999	81,758,487.14	42,788,582	35,711,879	0.4368	46,046,609	18.89	2,437,069	21.5
2000	1,810,667.29	926,100	772,934	0.4269	1,037,733	18.92	54,840	20.5
2001	11,667,336.30	5,821,794	4,858,941	0.4165	6,808,395	18.95	359,277	19.5
2002	81,928,213.08	39,803,746	33,220,697	0.4055	48,707,516	18.98	2,566,703	18.5
2003	32,695,292.99	15,431,824	12,879,591	0.3939	19,815,702	19.00	1,042,828	17.5
2004	8,527,792.94	3,900,435	3,255,351	0.3817	5,272,442	19.03	277,119	16.5
2005	2,510,181.58	1,109,330	925,860	0.3688	1,584,321	19.05	83,170	15.5
2007	1,939,388.15	791,758	660,811	0.3407	1,278,578	19.09	66,968	13.5
2009	9,968,730.49	3,690,752	3,080,347	0.3090	6,888,383	19.13	360,046	11.5
2010	11,795,773.07	4,120,642	3,439,139	0.2916	8,356,634	19.15	436,371	10.5
2011	5,893,888.54	1,927,226	1,608,486	0.2729	4,285,402	19.17	223,570	9.5
2012	13,260,139.00	4,018,516	3,353,903	0.2529	9,906,236	19.18	516,358	8.5

# Enbridge Energy, Limited Partnership

Account #: 15500 - Pipe Line Construction

## CALCULATED ANNUAL ACCRUAL AND ACCRUED DEPRECIATION

BASED ON ORIGINAL COST AS OF December 31, 2020

ALG - Remaining Life

Survivor Curve: R2.5

ASL: 75

Net Salvage: 0%

Truncation Year: 2040

Year	Original Cost	Calculated Accumulated Depreciation	Allocated Actual Booked Amount	Accumulated Depreciation Factor	Net Book Value	ALG Remaining Life	Annual Accrual	Average Age
2013	5,766,527.28	1,599,345	1,334,833	0.2315	4,431,695	19.20	230,808	7.5
2015	12,934,069.37	2,842,588	2,372,459	0.1834	10,561,610	19.23	549,204	5.5
2016	16,234,967.48	3,042,384	2,539,212	0.1564	13,695,756	19.24	711,667	4.5
2017	27,352,395.84	4,163,034	3,474,519	0.1270	23,877,877	19.26	1,239,900	3.5
2018	27,757,428.89	3,159,023	2,636,560	0.0950	25,120,869	19.27	1,303,592	2.5
2019	9,369,561.28	672,397	561,191	0.0599	8,808,370	19.28	456,808	1.5
2020	6,292,698.19	160,536	133,985	0.0213	6,158,713	19.29	319,205	0.5
<b>TOTAL</b>	<b>723,744,951.58</b>	<b>342,577,700</b>	<b>285,919,575</b>		<b>437,825,377</b>		<b>23,189,931</b>	

COMPOSITE ANNUAL ACCRUAL RATE 3.20%

THEORETICAL ACCUMULATED DEPRECIATION FACTOR 0.40

COMPOSITE AVERAGE AGE (YEARS) 20.59

ALG COMPOSITE REMAINING LIFE (YEARS) 18.88

# Enbridge Energy, Limited Partnership

Account #: 15600 - Buildings

## CALCULATED ANNUAL ACCRUAL AND ACCRUED DEPRECIATION

BASED ON ORIGINAL COST AS OF December 31, 2020

ALG - Remaining Life

Survivor Curve: R2

ASL: 60

Net Salvage: 0%

Truncation Year: 2040

Year	Original Cost	Calculated Accumulated Depreciation	Allocated Actual Booked Amount	Accumulated Depreciation Factor	Net Book Value	ALG Remaining Life	Annual Accrual	Average Age
1951	258,861.00	210,744	232,038	0.8964	26,823	11.14	2,407	69.5
1952	267,267.62	216,486	238,360	0.8918	28,907	11.37	2,542	68.5
1953	26,118.66	21,048	23,174	0.8873	2,944	11.60	254	67.5
1954	428,985.77	343,907	378,656	0.8827	50,330	11.83	4,255	66.5
1955	24,346.25	19,415	21,377	0.8780	2,969	12.05	246	65.5
1957	40,396.48	31,872	35,092	0.8687	5,304	12.50	424	63.5
1958	37,265.83	29,242	32,196	0.8640	5,070	12.72	399	62.5
1959	55,430.63	43,255	47,625	0.8592	7,805	12.93	603	61.5
1960	17,723.48	13,753	15,143	0.8544	2,581	13.15	196	60.5
1961	211,545.85	163,222	179,714	0.8495	31,832	13.36	2,383	59.5
1963	41,299.45	31,496	34,679	0.8397	6,621	13.77	481	57.5
1965	3,446.40	2,597	2,859	0.8297	587	14.17	41	55.5
1967	204,340.05	152,076	167,442	0.8194	36,898	14.55	2,536	53.5
1968	4,801.04	3,550	3,909	0.8142	892	14.74	61	52.5
1969	99,840.73	73,354	80,765	0.8089	19,075	14.92	1,279	51.5
1970	563,167.79	411,030	452,560	0.8036	110,607	15.09	7,329	50.5
1971	764,549.36	554,242	610,243	0.7982	154,306	15.26	10,110	49.5
1972	310,025.31	223,197	245,749	0.7927	64,276	15.43	4,166	48.5
1973	597,111.77	426,849	469,978	0.7871	127,133	15.59	8,155	47.5
1974	270,574.98	192,025	211,427	0.7814	59,148	15.75	3,756	46.5
1975	614,763.22	433,064	476,821	0.7756	137,942	15.90	8,677	45.5
1976	150,281.15	105,059	115,675	0.7697	34,606	16.04	2,157	44.5
1977	233,612.62	162,039	178,411	0.7637	55,201	16.19	3,411	43.5
1978	234,895.00	161,619	177,949	0.7576	56,946	16.32	3,489	42.5
1979	66,456.54	45,346	49,928	0.7513	16,528	16.45	1,004	41.5
1980	436,591.45	295,359	325,202	0.7449	111,389	16.58	6,718	40.5
1981	525,225.84	352,183	387,768	0.7383	137,458	16.70	8,229	39.5
1982	106,084.10	70,483	77,604	0.7315	28,480	16.82	1,693	38.5

# Enbridge Energy, Limited Partnership

Account #: 15600 - Buildings

## CALCULATED ANNUAL ACCRUAL AND ACCRUED DEPRECIATION

BASED ON ORIGINAL COST AS OF December 31, 2020

ALG - Remaining Life

Survivor Curve: R2

ASL: 60

Net Salvage: 0%

Truncation Year: 2040

Year	Original Cost	Calculated Accumulated Depreciation	Allocated Actual Booked Amount	Accumulated Depreciation Factor	Net Book Value	ALG Remaining Life	Annual Accrual	Average Age
1983	109,854.84	72,296	79,601	0.7246	30,254	16.94	1,786	37.5
1984	101,844.31	66,365	73,071	0.7175	28,773	17.05	1,688	36.5
1985	993,988.47	641,093	705,870	0.7101	288,119	17.15	16,798	35.5
1986	985,103.68	628,595	692,109	0.7026	292,995	17.25	16,982	34.5
1987	916,535.73	578,350	636,787	0.6948	279,748	17.35	16,124	33.5
1988	169,587.02	105,771	116,458	0.6867	53,129	17.44	3,046	32.5
1989	126,276.23	77,802	85,663	0.6784	40,613	17.53	2,316	31.5
1990	3,681,787.64	2,239,596	2,465,887	0.6698	1,215,901	17.62	69,009	30.5
1991	3,237,465.40	1,943,012	2,139,335	0.6608	1,098,130	17.70	62,034	29.5
1992	6,481,317.70	3,835,180	4,222,689	0.6515	2,258,628	17.78	127,022	28.5
1993	3,788,635.09	2,208,647	2,431,811	0.6419	1,356,824	17.86	75,982	27.5
1994	5,877,869.19	3,373,000	3,713,811	0.6318	2,164,058	17.93	120,694	26.5
1995	2,722,002.22	1,536,151	1,691,365	0.6214	1,030,638	18.00	57,257	25.5
1996	9,194,714.02	5,097,916	5,613,014	0.6105	3,581,700	18.07	198,245	24.5
1997	6,998,964.14	3,808,080	4,192,851	0.5991	2,806,113	18.13	154,766	23.5
1998	12,576,837.52	6,706,836	7,384,500	0.5872	5,192,337	18.19	285,404	22.5
1999	1,531,829.50	799,524	880,308	0.5747	651,521	18.25	35,696	21.5
2000	447,443.20	228,223	251,283	0.5616	196,161	18.31	10,714	20.5
2001	274,259.30	136,467	150,256	0.5479	124,004	18.36	6,753	19.5
2002	1,397,146.57	676,873	745,265	0.5334	651,882	18.41	35,400	18.5
2003	3,839,754.00	1,807,196	1,989,797	0.5182	1,849,957	18.46	100,188	17.5
2004	364,348.82	166,173	182,963	0.5022	181,385	18.51	9,798	16.5
2005	3,464,868.68	1,526,943	1,681,227	0.4852	1,783,642	18.56	96,109	15.5
2006	1,195,778.61	507,494	558,772	0.4673	637,007	18.60	34,243	14.5
2007	7,786,576.14	3,170,196	3,490,516	0.4483	4,296,060	18.64	230,417	13.5
2009	2,875,965.80	1,062,048	1,169,358	0.4066	1,706,608	18.72	91,146	11.5
2010	1,075,688.82	374,846	412,721	0.3837	662,968	18.76	35,338	10.5
2011	3,099,566.10	1,011,177	1,113,347	0.3592	1,986,219	18.80	105,669	9.5

# Enbridge Energy, Limited Partnership

Account #: 15600 - Buildings

## CALCULATED ANNUAL ACCRUAL AND ACCRUED DEPRECIATION

BASED ON ORIGINAL COST AS OF December 31, 2020

ALG - Remaining Life

Survivor Curve: R2

ASL: 60

Net Salvage: 0%

Truncation Year: 2040

Year	Original Cost	Calculated Accumulated Depreciation	Allocated Actual Booked Amount	Accumulated Depreciation Factor	Net Book Value	ALG Remaining Life	Annual Accrual	Average Age
2012	3,268,178.00	988,315	1,088,175	0.3330	2,180,003	18.83	115,769	8.5
2013	953,796.73	264,026	290,704	0.3048	663,093	18.86	35,152	7.5
2015	6,933,384.78	1,521,943	1,675,721	0.2417	5,257,664	18.92	277,819	5.5
2016	7,706,237.52	1,443,177	1,588,997	0.2062	6,117,240	18.95	322,748	4.5
2017	2,945,418.90	448,411	493,719	0.1676	2,451,700	18.98	129,165	3.5
2019	580,209.00	41,866	46,096	0.0794	534,113	19.03	28,063	1.5
2020	1,462,248.00	38,181	42,039	0.0287	1,420,209	19.06	74,524	0.5
<b>TOTAL</b>	<b>115,760,490.04</b>	<b>53,920,282</b>	<b>59,368,433</b>		<b>56,392,057</b>		<b>3,070,866</b>	

COMPOSITE ANNUAL ACCRUAL RATE 2.65%

THEORETICAL ACCUMULATED DEPRECIATION FACTOR 0.51

COMPOSITE AVERAGE AGE (YEARS) 20.38

ALG COMPOSITE REMAINING LIFE (YEARS) 18.36

# Enbridge Energy, Limited Partnership

Account #: 15800 - Pumping Equipment

CALCULATED ANNUAL ACCRUAL AND ACCRUED DEPRECIATION

BASED ON ORIGINAL COST AS OF December 31, 2020

ALG - Remaining Life

Survivor Curve: S0

ASL: 45

Net Salvage: 0%

Truncation Year: 2040

Year	Original Cost	Calculated Accumulated Depreciation	Allocated Actual Booked Amount	Accumulated Depreciation Factor	Net Book Value	ALG Remaining Life	Annual Accrual	Average Age
1950	71,500.77	59,857	71,501	1.0000	0	7.33	0	70.5
1954	75,005.55	60,302	75,006	1.0000	0	8.82	0	66.5
1957	19,705.88	15,411	19,706	1.0000	0	9.81	0	63.5
1958	709.62	550	710	1.0000	0	10.11	0	62.5
1959	107,929.09	82,993	107,929	1.0000	0	10.40	0	61.5
1961	26,969.60	20,415	26,970	1.0000	0	10.94	0	59.5
1963	609,030.36	454,334	609,030	1.0000	0	11.43	0	57.5
1964	4,516.04	3,346	4,516	1.0000	0	11.66	0	56.5
1965	4,517.59	3,323	4,518	1.0000	0	11.88	0	55.5
1967	748,912.00	542,976	742,936	0.9920	5,976	12.30	486	53.5
1968	10,603.55	7,633	10,444	0.9850	160	12.50	13	52.5
1969	163,352.70	116,757	159,755	0.9780	3,597	12.69	283	51.5
1970	486,278.73	345,117	472,212	0.9711	14,067	12.87	1,093	50.5
1971	962,507.76	678,278	928,066	0.9642	34,442	13.05	2,640	49.5
1972	858,074.16	600,405	821,514	0.9574	36,560	13.22	2,766	48.5
1973	552,657.85	383,949	525,345	0.9506	27,313	13.38	2,041	47.5
1974	513,494.57	354,181	484,614	0.9438	28,881	13.54	2,133	46.5
1975	151,623.36	103,823	142,057	0.9369	9,566	13.69	699	45.5
1976	528,896.82	359,492	491,881	0.9300	37,016	13.84	2,674	44.5
1977	507,749.70	342,536	468,681	0.9231	39,069	13.99	2,793	43.5
1978	1,721.83	1,153	1,577	0.9160	145	14.13	10	42.5
1979	64,419.97	42,791	58,550	0.9089	5,870	14.26	412	41.5
1980	504,911.42	332,710	455,236	0.9016	49,676	14.39	3,452	40.5
1981	592,692.43	387,347	529,995	0.8942	62,698	14.52	4,318	39.5
1982	71,235.96	46,162	63,162	0.8867	8,074	14.65	551	38.5
1984	3,815.64	2,429	3,323	0.8710	492	14.89	33	36.5
1985	1,079,133.13	680,512	931,122	0.8628	148,011	15.00	9,867	35.5
1986	1,436,617.59	897,133	1,227,518	0.8545	209,100	15.11	13,835	34.5

# Enbridge Energy, Limited Partnership

Account #: 15800 - Pumping Equipment

## CALCULATED ANNUAL ACCRUAL AND ACCRUED DEPRECIATION

BASED ON ORIGINAL COST AS OF December 31, 2020

ALG - Remaining Life

Survivor Curve: S0

ASL: 45

Net Salvage: 0%

Truncation Year: 2040

Year	Original Cost	Calculated Accumulated Depreciation	Allocated Actual Booked Amount	Accumulated Depreciation Factor	Net Book Value	ALG Remaining Life	Annual Accrual	Average Age
1987	1,183,654.52	731,676	1,001,128	0.8458	182,527	15.22	11,989	33.5
1988	661,195.05	404,396	553,322	0.8369	107,873	15.33	7,036	32.5
1989	205,681.69	124,406	170,221	0.8276	35,460	15.44	2,297	31.5
1990	1,022,040.30	611,009	836,024	0.8180	186,016	15.54	11,968	30.5
1991	1,065,054.09	628,965	860,592	0.8080	204,462	15.64	13,069	29.5
1992	165,187.25	96,299	131,763	0.7977	33,424	15.74	2,123	28.5
1993	1,180,812.31	679,060	929,135	0.7869	251,677	15.84	15,885	27.5
1994	859,907.62	487,433	666,938	0.7756	192,969	15.94	12,105	26.5
1995	2,207,415.43	1,232,260	1,686,061	0.7638	521,355	16.04	32,511	25.5
1996	9,299,083.09	5,107,345	6,988,212	0.7515	2,310,872	16.13	143,256	24.5
1997	5,332,887.65	2,878,662	3,938,778	0.7386	1,394,110	16.22	85,927	23.5
1998	8,240,901.14	4,366,775	5,974,915	0.7250	2,265,986	16.32	138,875	22.5
1999	757,066.98	393,277	538,107	0.7108	218,959	16.41	13,344	21.5
2000	1,330,158.37	676,397	925,492	0.6958	404,666	16.50	24,526	20.5
2001	101,664.44	50,522	69,128	0.6800	32,537	16.59	1,961	19.5
2002	631,981.02	306,347	419,164	0.6633	212,817	16.68	12,760	18.5
2003	52,350.98	24,700	33,797	0.6456	18,554	16.77	1,106	17.5
2004	80,464.00	36,863	50,439	0.6268	30,025	16.86	1,781	16.5
2005	987,326.61	437,981	599,276	0.6070	388,051	16.95	22,899	15.5
2006	759,061.00	324,995	444,680	0.5858	314,381	17.04	18,455	14.5
2007	2,211,479.78	910,454	1,245,745	0.5633	965,735	17.12	56,396	13.5
2009	6,192,691.54	2,324,156	3,180,066	0.5135	3,012,625	17.30	174,099	11.5
2011	6,486,692.71	2,163,163	2,959,785	0.4563	3,526,908	17.49	201,691	9.5
2013	6,225,182.90	1,773,501	2,426,623	0.3898	3,798,560	17.67	214,919	7.5
2016	2,611,079.59	510,276	698,194	0.2674	1,912,886	17.97	106,446	4.5
2017	2.00	0	0	0.2188	2	18.08	0	3.5
2018	1,328,638.00	160,591	219,731	0.1654	1,108,907	18.18	60,981	2.5
2019	1,875,526.00	145,755	199,432	0.1063	1,676,094	18.30	91,595	1.5



Enbridge Energy, Limited Partnership

Account #: 15800 - Pumping Equipment

CALCULATED ANNUAL ACCRUAL AND ACCRUED DEPRECIATION  
BASED ON ORIGINAL COST AS OF December 31, 2020

ALG - Remaining Life  
Survivor Curve: S0  
ASL: 45  
Net Salvage: 0%  
Truncation Year: 2040

Year	Original Cost	Calculated Accumulated Depreciation	Allocated Actual Booked Amount	Accumulated Depreciation Factor	Net Book Value	ALG Remaining Life	Annual Accrual	Average Age
2020	243.00	7	10	0.0407	233	18.42	13	0.5
TOTAL	73,214,012.73	34,513,190	47,184,630		26,029,383		1,530,111	

COMPOSITE ANNUAL ACCRUAL RATE	2.09%
THEORETICAL ACCUMULATED DEPRECIATION FACTOR	0.64
COMPOSITE AVERAGE AGE (YEARS)	21.25
ALG COMPOSITE REMAINING LIFE (YEARS)	17.01

# Enbridge Energy, Limited Partnership

Account #: 16000 - Other Station Equipment

## CALCULATED ANNUAL ACCRUAL AND ACCRUED DEPRECIATION

BASED ON ORIGINAL COST AS OF December 31, 2020

ALG - Remaining Life

Survivor Curve: R2

ASL: 50

Net Salvage: 0%

Truncation Year: 2040

Year	Original Cost	Calculated Accumulated Depreciation	Allocated Actual Booked Amount	Accumulated Depreciation Factor	Net Book Value	ALG Remaining Life	Annual Accrual	Average Age
1950	445,072.53	389,481	424,587	0.9540	20,485	6.25	3,280	70.5
1951	317,460.13	275,943	300,816	0.9476	16,644	6.54	2,545	69.5
1952	171,823.44	148,346	161,717	0.9412	10,106	6.83	1,479	68.5
1953	35,790.12	30,691	33,457	0.9348	2,333	7.12	327	67.5
1954	1,118,111.48	952,316	1,038,155	0.9285	79,957	7.41	10,784	66.5
1956	55,647.40	46,754	50,969	0.9159	4,679	7.99	586	64.5
1957	344,793.18	287,719	313,653	0.9097	31,141	8.28	3,763	63.5
1958	3,576.96	2,964	3,232	0.9035	345	8.56	40	62.5
1959	269,832.46	222,092	242,111	0.8973	27,722	8.85	3,134	61.5
1960	95,886.30	78,377	85,442	0.8911	10,445	9.13	1,144	60.5
1961	333,498.51	270,709	295,109	0.8849	38,389	9.41	4,078	59.5
1962	107,200.33	86,410	94,198	0.8787	13,002	9.70	1,341	58.5
1963	1,234,329.21	987,950	1,077,001	0.8725	157,328	9.98	15,764	57.5
1964	20,144.89	16,010	17,453	0.8664	2,692	10.26	262	56.5
1965	7,188.25	5,672	6,183	0.8602	1,005	10.55	95	55.5
1966	188,081.72	147,353	160,635	0.8541	27,447	10.83	2,535	54.5
1967	1,573,020.52	1,222,982	1,333,218	0.8476	239,803	11.11	21,587	53.5
1968	1,339,361.10	1,033,142	1,126,266	0.8409	213,095	11.39	18,712	52.5
1969	1,072,128.24	820,399	894,348	0.8342	177,781	11.67	15,239	51.5
1970	1,498,605.59	1,137,417	1,239,940	0.8274	258,666	11.94	21,659	50.5
1971	408,715.11	307,640	335,369	0.8205	73,346	12.22	6,004	49.5
1972	2,399,280.17	1,790,710	1,952,119	0.8136	447,161	12.49	35,812	48.5
1973	2,717,657.66	2,010,912	2,192,170	0.8066	525,488	12.75	41,204	47.5
1974	1,345,731.45	987,051	1,076,021	0.7996	269,711	13.02	20,721	46.5
1975	2,600,524.28	1,890,386	2,060,780	0.7924	539,745	13.28	40,659	45.5
1976	1,046,813.76	754,031	821,997	0.7852	224,816	13.53	16,618	44.5
1977	1,779,540.76	1,269,919	1,384,386	0.7779	395,155	13.78	28,682	43.5
1978	223,051.46	157,665	171,876	0.7706	51,176	14.02	3,650	42.5

# Enbridge Energy, Limited Partnership

Account #: 16000 - Other Station Equipment

## CALCULATED ANNUAL ACCRUAL AND ACCRUED DEPRECIATION

BASED ON ORIGINAL COST AS OF December 31, 2020

ALG - Remaining Life

Survivor Curve: R2

ASL: 50

Net Salvage: 0%

Truncation Year: 2040

Year	Original Cost	Calculated Accumulated Depreciation	Allocated Actual Booked Amount	Accumulated Depreciation Factor	Net Book Value	ALG Remaining Life	Annual Accrual	Average Age
1979	1,596,434.30	1,117,501	1,218,229	0.7631	378,205	14.26	26,529	41.5
1980	1,023,559.05	709,378	773,320	0.7555	250,239	14.49	17,274	40.5
1981	3,580,601.98	2,456,304	2,677,708	0.7478	902,894	14.71	61,377	39.5
1982	329,993.51	224,015	244,207	0.7400	85,787	14.93	5,747	38.5
1983	470,069.94	315,684	344,139	0.7321	125,931	15.14	8,319	37.5
1984	466,266.99	309,676	337,590	0.7240	128,677	15.34	8,388	36.5
1985	3,170,588.43	2,081,841	2,269,492	0.7158	901,097	15.54	57,999	35.5
1986	7,617,864.89	4,943,250	5,388,820	0.7074	2,229,045	15.73	141,749	34.5
1987	6,081,013.12	3,898,066	4,249,425	0.6988	1,831,588	15.91	115,144	33.5
1988	4,574,412.64	2,895,395	3,156,376	0.6900	1,418,036	16.08	88,178	32.5
1989	5,720,261.60	3,573,337	3,895,426	0.6810	1,824,835	16.25	112,305	31.5
1990	8,867,508.91	5,464,001	5,956,509	0.6717	2,911,000	16.41	177,397	30.5
1991	8,314,989.16	5,050,844	5,506,112	0.6622	2,808,878	16.56	169,584	29.5
1992	10,028,818.90	6,001,519	6,542,478	0.6524	3,486,341	16.71	208,631	28.5
1993	15,027,151.80	8,852,869	9,650,839	0.6422	5,376,312	16.85	319,046	27.5
1994	30,965,490.44	17,944,669	19,562,146	0.6317	11,403,344	16.99	671,352	26.5
1995	15,981,894.09	9,102,344	9,922,801	0.6209	6,059,093	17.11	354,043	25.5
1996	29,943,518.13	16,744,466	18,253,760	0.6096	11,689,758	17.24	678,201	24.5
1997	25,384,780.60	13,922,405	15,177,327	0.5979	10,207,453	17.35	588,217	23.5
1998	44,082,279.86	23,683,865	25,818,656	0.5857	18,263,624	17.46	1,045,756	22.5
1999	21,458,826.22	11,278,626	12,295,247	0.5730	9,163,580	17.57	521,529	21.5
2000	7,325,569.37	3,760,942	4,099,941	0.5597	3,225,628	17.67	182,531	20.5
2001	2,254,910.26	1,128,888	1,230,643	0.5458	1,024,268	17.77	57,647	19.5
2002	11,363,694.81	5,536,985	6,036,072	0.5312	5,327,623	17.86	298,307	18.5
2003	35,554,002.74	16,823,940	18,340,398	0.5158	17,213,604	17.95	959,147	17.5
2004	2,376,217.91	1,089,258	1,187,440	0.4997	1,188,778	18.03	65,934	16.5
2005	22,565,066.86	9,991,850	10,892,485	0.4827	11,672,582	18.11	644,578	15.5
2006	3,533,249.00	1,506,311	1,642,085	0.4648	1,891,164	18.18	104,001	14.5

# Enbridge Energy, Limited Partnership

Account #: 16000 - Other Station Equipment

## CALCULATED ANNUAL ACCRUAL AND ACCRUED DEPRECIATION

BASED ON ORIGINAL COST AS OF December 31, 2020

ALG - Remaining Life

Survivor Curve: R2

ASL: 50

Net Salvage: 0%

Truncation Year: 2040

Year	Original Cost	Calculated Accumulated Depreciation	Allocated Actual Booked Amount	Accumulated Depreciation Factor	Net Book Value	ALG Remaining Life	Annual Accrual	Average Age
2007	6,868,434.27	2,808,395	3,061,535	0.4457	3,806,899	18.26	208,532	13.5
2009	20,151,533.98	7,470,689	8,144,074	0.4041	12,007,460	18.39	652,983	11.5
2011	4,121,635.26	1,349,498	1,471,138	0.3569	2,650,498	18.51	143,201	9.5
2012	27,180,934.38	8,248,886	8,992,415	0.3308	18,188,519	18.56	979,731	8.5
2013	7,678,537.68	2,133,030	2,325,294	0.3028	5,353,243	18.62	287,532	7.5
2014	41,034,528.52	10,264,581	11,189,799	0.2727	29,844,729	18.67	1,598,675	6.5
2016	184,386,928.53	34,663,687	37,788,165	0.2049	146,598,764	18.76	7,813,562	4.5
2017	41,134,145.89	6,288,948	6,855,814	0.1667	34,278,332	18.81	1,822,783	3.5
2018	12,371,207.29	1,417,805	1,545,602	0.1249	10,825,605	18.85	574,402	2.5
2020	4,678,261.58	124,395	135,608	0.0290	4,542,654	18.92	240,058	0.5
<b>TOTAL</b>	<b>702,018,049.91</b>	<b>272,509,183</b>	<b>297,072,321</b>		<b>404,945,729</b>		<b>22,332,073</b>	

COMPOSITE ANNUAL ACCRUAL RATE 3.18%

THEORETICAL ACCUMULATED DEPRECIATION FACTOR 0.42

COMPOSITE AVERAGE AGE (YEARS) 15.65

ALG COMPOSITE REMAINING LIFE (YEARS) 18.13

# Enbridge Energy, Limited Partnership

Account #: 16100 - Oil Tanks

## CALCULATED ANNUAL ACCRUAL AND ACCRUED DEPRECIATION

BASED ON ORIGINAL COST AS OF December 31, 2020

ALG - Remaining Life

Survivor Curve: S2.5

ASL: 60

Net Salvage: 0%

Truncation Year: 2040

Year	Original Cost	Calculated Accumulated Depreciation	Allocated Actual Booked Amount	Accumulated Depreciation Factor	Net Book Value	ALG Remaining Life	Annual Accrual	Average Age
1952	2,240,223.98	1,875,926	1,954,400	0.8724	285,824	9.76	29,294	68.5
1953	29,121.92	24,286	25,302	0.8688	3,820	9.96	383	67.5
1954	22,559.30	18,735	19,519	0.8652	3,040	10.17	299	66.5
1958	17,199.55	14,031	14,618	0.8499	2,581	11.00	235	62.5
1959	201,690.60	163,709	170,557	0.8456	31,133	11.23	2,773	61.5
1960	158,124.70	127,716	133,059	0.8415	25,066	11.44	2,190	60.5
1961	457,011.45	367,268	382,632	0.8372	74,380	11.66	6,380	59.5
1962	115,542.43	92,375	96,239	0.8329	19,303	11.88	1,625	58.5
1968	409,518.38	316,451	329,689	0.8051	79,829	13.18	6,055	52.5
1969	202,246.85	155,310	161,807	0.8000	40,440	13.40	3,017	51.5
1970	2,473.25	1,887	1,966	0.7949	507	13.62	37	50.5
1971	2,527,654.28	1,915,759	1,995,899	0.7896	531,755	13.84	38,422	49.5
1972	2,016,111.85	1,517,595	1,581,079	0.7842	435,033	14.06	30,949	48.5
1973	2,624,264.85	1,961,395	2,043,444	0.7787	580,821	14.27	40,695	47.5
1974	259,774.80	192,736	200,798	0.7730	58,976	14.49	4,071	46.5
1975	90,516.24	66,649	69,437	0.7671	21,079	14.70	1,434	45.5
1976	43,239.10	31,588	32,910	0.7611	10,329	14.91	693	44.5
1977	6,323.52	4,582	4,774	0.7549	1,550	15.12	103	43.5
1978	41,641.68	29,921	31,173	0.7486	10,469	15.33	683	42.5
1979	998,669.68	711,312	741,068	0.7421	257,602	15.53	16,585	41.5
1980	66,882.31	47,205	49,180	0.7353	17,702	15.73	1,125	40.5
1981	119,333.38	83,432	86,922	0.7284	32,411	15.93	2,034	39.5
1982	259,163.36	179,420	186,925	0.7213	72,238	16.13	4,479	38.5
1983	418,393.47	286,701	298,694	0.7139	119,699	16.32	7,335	37.5
1984	221,743.04	150,336	156,625	0.7063	65,118	16.50	3,946	36.5
1985	197,924.57	132,704	138,255	0.6985	59,669	16.69	3,576	35.5
1986	163,860.93	108,597	113,140	0.6905	50,721	16.86	3,008	34.5
1988	36,296.23	23,466	24,448	0.6736	11,848	17.20	689	32.5

# Enbridge Energy, Limited Partnership

Account #: 16100 - Oil Tanks

## CALCULATED ANNUAL ACCRUAL AND ACCRUED DEPRECIATION

BASED ON ORIGINAL COST AS OF December 31, 2020

ALG - Remaining Life

Survivor Curve: S2.5

ASL: 60

Net Salvage: 0%

Truncation Year: 2040

Year	Original Cost	Calculated Accumulated Depreciation	Allocated Actual Booked Amount	Accumulated Depreciation Factor	Net Book Value	ALG Remaining Life	Annual Accrual	Average Age
1990	6,144,344.15	3,866,161	4,027,890	0.6555	2,116,454	17.52	120,799	30.5
1991	1,049,265.15	650,680	677,899	0.6461	371,366	17.67	21,017	29.5
1992	1,955,633.43	1,194,337	1,244,298	0.6363	711,335	17.81	39,932	28.5
1993	151,791.50	91,223	95,039	0.6261	56,752	17.95	3,162	27.5
1994	8,029,486.56	4,744,466	4,942,937	0.6156	3,086,550	18.08	170,708	26.5
1995	2,518,052.26	1,461,490	1,522,627	0.6047	995,425	18.20	54,679	25.5
1996	5,826,535.77	3,318,423	3,457,240	0.5934	2,369,296	18.32	129,315	24.5
1997	2,696,146.81	1,505,088	1,568,049	0.5816	1,128,098	18.43	61,202	23.5
1998	290,465.53	158,733	165,373	0.5693	125,093	18.54	6,749	22.5
1999	8,378,826.34	4,476,249	4,663,499	0.5566	3,715,327	18.63	199,391	21.5
2000	2,533,941.99	1,321,344	1,376,619	0.5433	1,157,323	18.72	61,810	20.5
2001	1,786,093.36	907,535	945,499	0.5294	840,595	18.81	44,693	19.5
2002	1,404,938.00	694,255	723,297	0.5148	681,641	18.89	36,093	18.5
2003	9,170,909.00	4,397,672	4,581,636	0.4996	4,589,273	18.96	242,083	17.5
2004	2,257,502.10	1,047,859	1,091,693	0.4836	1,165,809	19.02	61,284	16.5
2005	5,198,321.00	2,328,966	2,426,391	0.4668	2,771,930	19.08	145,257	15.5
2006	5,812,156.99	2,505,101	2,609,894	0.4490	3,202,263	19.14	167,330	14.5
2009	5,347,345.03	1,999,389	2,083,028	0.3895	3,264,317	19.27	169,398	11.5
2010	7,655,791.21	2,698,585	2,811,472	0.3672	4,844,319	19.31	250,933	10.5
2011	26,412,425.00	8,707,494	9,071,746	0.3435	17,340,679	19.34	896,802	9.5
2012	15,444,673.00	4,715,247	4,912,495	0.3181	10,532,178	19.36	543,926	8.5
2014	8,362,230.83	2,100,004	2,187,851	0.2616	6,174,380	19.41	318,149	6.5
2017	5,601,270.40	855,217	890,992	0.1591	4,710,278	19.45	242,152	3.5
2018	11,087,478.00	1,264,004	1,316,880	0.1188	9,770,598	19.46	502,034	2.5
2019	36,669,853.12	2,628,525	2,738,482	0.0747	33,931,372	19.47	1,742,708	1.5
2020	11,439,523.44	287,849	299,890	0.0262	11,139,633	19.48	571,928	0.5

# Enbridge Energy, Limited Partnership

Account #: 16100 - Oil Tanks

## CALCULATED ANNUAL ACCRUAL AND ACCRUED DEPRECIATION BASED ON ORIGINAL COST AS OF December 31, 2020

ALG - Remaining Life  
Survivor Curve: S2.5  
ASL: 60  
Net Salvage: 0%  
Truncation Year: 2040

Year	Original Cost	Calculated Accumulated Depreciation	Allocated Actual Booked Amount	Accumulated Depreciation Factor	Net Book Value	ALG Remaining Life	Annual Accrual	Average Age
TOTAL	207,172,505.67	70,526,989	73,477,277		133,695,229		7,015,647	
COMPOSITE ANNUAL ACCRUAL RATE				3.39%				
THEORETICAL ACCUMULATED DEPRECIATION FACTOR				0.35				
COMPOSITE AVERAGE AGE (YEARS)				13.61				
ALG COMPOSITE REMAINING LIFE (YEARS)				19.06				

# Enbridge Energy, Limited Partnership

Account #: 16300 - Communication Systems

## CALCULATED ANNUAL ACCRUAL AND ACCRUED DEPRECIATION

BASED ON ORIGINAL COST AS OF December 31, 2020

ALG - Remaining Life

Survivor Curve: R2

ASL: 30

Net Salvage: 0%

Truncation Year: 2040

Year	Original Cost	Calculated Accumulated Depreciation	Allocated Actual Booked Amount	Accumulated Depreciation Factor	Net Book Value	ALG Remaining Life	Annual Accrual	Average Age
1957	3,668.84	3,669	3,669	1.0000	0			63.5
1958	1,387.70	1,388	1,388	1.0000	0			62.5
1959	1,872.16	1,872	1,872	1.0000	0			61.5
1960	1,802.17	1,802	1,802	1.0000	0			60.5
1971	3,363.56	3,174	3,307	0.9831	57	1.69	34	49.5
1981	29,485.52	24,951	25,996	0.8817	3,489	4.61	756	39.5
1982	14,674.85	12,260	12,774	0.8705	1,901	4.94	385	38.5
1985	2,448.44	1,960	2,042	0.8341	406	5.98	68	35.5
1986	739.72	583	607	0.8209	132	6.36	21	34.5
1987	44,420.87	34,414	35,855	0.8072	8,565	6.76	1,267	33.5
1989	97,664.26	72,945	76,001	0.7782	21,663	7.59	2,853	31.5
1990	13,557.20	9,929	10,345	0.7630	3,212	8.03	400	30.5
1991	755,202.34	541,845	564,550	0.7475	190,653	8.48	22,495	29.5
1992	424,695.71	298,278	310,776	0.7318	113,920	8.93	12,757	28.5
1993	226,217.88	155,399	161,911	0.7157	64,307	9.39	6,847	27.5
1994	313,654.42	210,589	219,413	0.6995	94,241	9.86	9,560	26.5
1995	217,726.20	142,782	148,765	0.6833	68,962	10.33	6,678	25.5
1996	137,093.28	87,759	91,436	0.6670	45,657	10.80	4,229	24.5
1997	75,622.02	47,231	49,210	0.6507	26,412	11.26	2,345	23.5
1998	129,928.70	78,975	82,284	0.6333	47,644	11.73	4,063	22.5
1999	69,410.54	40,975	42,692	0.6151	26,718	12.18	2,193	21.5
2000	5,954.36	3,409	3,552	0.5965	2,402	12.63	190	20.5
2001	131,479.54	72,900	75,954	0.5777	55,525	13.06	4,251	19.5
2002	737,211.06	395,155	411,712	0.5585	325,499	13.48	24,138	18.5
2003	88,459.00	45,751	47,668	0.5389	40,791	13.89	2,936	17.5
2004	3,900,327.24	1,942,247	2,023,631	0.5188	1,876,697	14.28	131,408	16.5
2005	135,135.00	64,626	67,334	0.4983	67,801	14.65	4,627	15.5
2006	338,776.18	155,140	161,641	0.4771	177,136	15.01	11,802	14.5



# Enbridge Energy, Limited Partnership

Account #: 16300 - Communication Systems

ALG - Remaining Life

Survivor Curve: R2

ASL: 30

Net Salvage: 0%

Truncation Year: 2040

## CALCULATED ANNUAL ACCRUAL AND ACCRUED DEPRECIATION

BASED ON ORIGINAL COST AS OF December 31, 2020

Year	Original Cost	Calculated Accumulated Depreciation	Allocated Actual Booked Amount	Accumulated Depreciation Factor	Net Book Value	ALG Remaining Life	Annual Accrual	Average Age
2007	199,778.00	87,303	90,961	0.4553	108,817	15.34	7,092	13.5
2008	407,821.81	169,360	176,456	0.4327	231,365	15.66	14,773	12.5
2009	114,948.89	45,139	47,030	0.4091	67,919	15.96	4,256	11.5
2010	806,338.68	297,603	310,073	0.3845	496,266	16.24	30,559	10.5
2011	346,389.21	119,259	124,256	0.3587	222,133	16.50	13,462	9.5
2012	487,173.54	155,002	161,496	0.3315	325,677	16.75	19,448	8.5
2013	816,771.75	237,274	247,216	0.3027	569,556	16.97	33,556	7.5
2014	1,345,359.62	351,226	365,943	0.2720	979,417	17.19	56,992	6.5
2015	138,005.00	31,688	33,016	0.2392	104,989	17.38	6,040	5.5
2016	958,364.00	187,699	195,564	0.2041	762,800	17.56	43,429	4.5
2017	1,759,317.02	280,490	292,243	0.1661	1,467,074	17.73	82,728	3.5
2018	1,071,448.00	128,535	133,921	0.1250	937,527	17.89	52,405	2.5
2019	416,326.00	32,049	33,391	0.0802	382,935	18.03	21,233	1.5
2020	394,726.00	11,806	12,301	0.0312	382,425	18.17	21,049	0.5
<b>TOTAL</b>	<b>17,164,746.28</b>	<b>6,586,439</b>	<b>6,862,055</b>		<b>10,302,691</b>		<b>663,325</b>	

COMPOSITE ANNUAL ACCRUAL RATE 3.86%

THEORETICAL ACCUMULATED DEPRECIATION FACTOR 0.40

COMPOSITE AVERAGE AGE (YEARS) 12.55

ALG COMPOSITE REMAINING LIFE (YEARS) 15.53

# Enbridge Energy, Limited Partnership

Account #: 16410 - Office Furniture and Equipment

CALCULATED ANNUAL ACCRUAL AND ACCRUED DEPRECIATION

BASED ON ORIGINAL COST AS OF December 31, 2020

ALG - Remaining Life

Survivor Curve: SQ

ASL: 20

Net Salvage: 0%

Truncation Year: 2040

Year	Original Cost	Calculated Accumulated Depreciation	Allocated Actual Booked Amount	Accumulated Depreciation Factor	Net Book Value	ALG Remaining Life	Annual Accrual	Average Age
1950	3,073.82	3,074	3,074	1.0000	0			71.5
1951	543.38	543	543	1.0000	0			70.5
1952	373.60	374	374	1.0000	0			69.5
1953	1,812.37	1,812	1,812	1.0000	0			68.5
1954	1,733.56	1,734	1,734	1.0000	0			67.5
1955	1,521.79	1,522	1,522	1.0000	0			66.5
1956	568.76	569	569	1.0000	0			65.5
1957	130.72	131	131	1.0000	0			64.5
1958	934.58	935	935	1.0000	0			63.5
1959	700.66	701	701	1.0000	0			62.5
1960	660.96	661	661	1.0000	0			61.5
1961	260.48	260	260	1.0000	0			60.5
1963	1,322.87	1,323	1,323	1.0000	0			58.5
1964	3,070.49	3,070	3,070	1.0000	0			57.5
1965	528.94	529	529	1.0000	0			56.5
1967	1,065.27	1,065	1,065	1.0000	0			54.5
1968	11,655.79	11,656	11,656	1.0000	0			53.5
1969	603.06	603	603	1.0000	0			52.5
1970	1,322.85	1,323	1,323	1.0000	0			51.5
1971	7,386.09	7,386	7,386	1.0000	0			50.5
1972	2,888.03	2,888	2,888	1.0000	0			49.5
1973	2,221.51	2,222	2,222	1.0000	0			48.5
1974	5,088.45	5,088	5,088	1.0000	0			47.5
1975	7,049.65	7,050	7,050	1.0000	0			46.5
1976	8,754.46	8,754	8,754	1.0000	0			45.5
1977	3,826.90	3,827	3,827	1.0000	0			44.5
1978	6,064.44	6,064	6,064	1.0000	0			43.5
1979	7,583.37	7,583	7,583	1.0000	0			42.5

# Enbridge Energy, Limited Partnership

Account #: 16410 - Office Furniture and Equipment

## CALCULATED ANNUAL ACCRUAL AND ACCRUED DEPRECIATION

BASED ON ORIGINAL COST AS OF December 31, 2020

ALG - Remaining Life

Survivor Curve: SQ

ASL: 20

Net Salvage: 0%

Truncation Year: 2040

Year	Original Cost	Calculated Accumulated Depreciation	Allocated Actual Booked Amount	Accumulated Depreciation Factor	Net Book Value	ALG Remaining Life	Annual Accrual	Average Age
1980	8,873.03	8,873	8,873	1.0000	0			41.5
1981	14,977.60	14,978	14,978	1.0000	0			40.5
1982	34,013.29	34,013	34,013	1.0000	0			39.5
1983	34,024.42	34,024	34,024	1.0000	0			38.5
1984	37,431.60	37,432	37,432	1.0000	0			37.5
1985	364,714.23	364,714	364,714	1.0000	0			36.5
1986	50,637.14	50,637	50,637	1.0000	0			35.5
1987	81,543.02	81,543	81,543	1.0000	0			34.5
1988	112,286.00	112,286	112,286	1.0000	0			33.5
1989	176,645.57	176,646	176,646	1.0000	0			32.5
1990	184,296.36	184,296	184,296	1.0000	0			31.5
1991	273,037.25	273,037	273,037	1.0000	0			30.5
1992	343,376.87	343,377	343,377	1.0000	0			29.5
1993	705,826.69	705,827	705,827	1.0000	0			28.5
1994	612,252.25	612,252	612,252	1.0000	0			27.5
1995	116,459.88	116,460	116,460	1.0000	0			26.5
1996	440,848.36	440,848	440,848	1.0000	0			25.5
1997	257,697.65	257,698	257,698	1.0000	0			24.5
1998	311,489.89	311,490	311,490	1.0000	0			23.5
1999	445,470.65	445,471	445,471	1.0000	0			22.5
2000	328,616.47	328,616	328,616	1.0000	0			21.5
2001	872,125.06	850,322	872,125	1.0000	0	0.50	0	19.5
2002	54,600.22	50,505	54,600	1.0000	0	1.50	0	18.5
2003	692,901.20	606,289	692,901	1.0000	0	2.50	0	17.5
2004	205,477.60	169,519	205,478	1.0000	0	3.50	0	16.5
2005	85,022.40	65,892	85,022	1.0000	0	4.50	0	15.5
2006	48,115.20	34,884	48,115	1.0000	0	5.50	0	14.5
2007	319,832.80	215,887	319,833	1.0000	0	6.50	0	13.5

# Enbridge Energy, Limited Partnership

Account #: 16410 - Office Furniture and Equipment

## CALCULATED ANNUAL ACCRUAL AND ACCRUED DEPRECIATION

BASED ON ORIGINAL COST AS OF December 31, 2020

ALG - Remaining Life

Survivor Curve: SQ

ASL: 20

Net Salvage: 0%

Truncation Year: 2040

Year	Original Cost	Calculated Accumulated Depreciation	Allocated Actual Booked Amount	Accumulated Depreciation Factor	Net Book Value	ALG Remaining Life	Annual Accrual	Average Age
2008	222,982.00	139,364	222,982	1.0000	0	7.50	0	12.5
2009	241,009.60	138,581	241,010	1.0000	0	8.50	0	11.5
2010	174,654.13	91,693	174,654	1.0000	0	9.50	0	10.5
2012	47,872.40	20,346	47,872	1.0000	0	11.50	0	8.5
2014	1,401,380.56	455,449	1,401,381	1.0000	0	13.50	0	6.5
2015	1,333,943.20	366,834	1,333,943	1.0000	0	14.50	0	5.5
2016	762,499.60	171,562	678,839	0.8903	83,661	15.50	5,397	4.5
2017	203,845.60	35,673	141,151	0.6924	62,695	16.50	3,800	3.5
2018	864,672.00	108,084	427,667	0.4946	437,005	17.50	24,972	2.5
2019	858,624.80	64,397	254,806	0.2968	603,819	18.50	32,639	1.5
2020	895,136.44	22,378	88,547	0.0989	806,589	19.50	41,364	0.5
<b>TOTAL</b>	<b>14,301,959.88</b>	<b>8,624,924</b>	<b>12,308,191</b>		<b>1,993,768</b>		<b>108,171</b>	

COMPOSITE ANNUAL ACCRUAL RATE 0.76%

THEORETICAL ACCUMULATED DEPRECIATION FACTOR 0.86

COMPOSITE AVERAGE AGE (YEARS) 15.04

ALG COMPOSITE REMAINING LIFE (YEARS) 18.43

# Enbridge Energy, Limited Partnership

Account #: 16420 - Computer Equipment

## CALCULATED ANNUAL ACCRUAL AND ACCRUED DEPRECIATION

BASED ON ORIGINAL COST AS OF December 31, 2020

ALG - Remaining Life

Survivor Curve: SQ

ASL: 5

Net Salvage: 0%

Truncation Year: 2040

Year	Original Cost	Calculated Accumulated Depreciation	Allocated Actual Booked Amount	Accumulated Depreciation Factor	Net Book Value	ALG Remaining Life	Annual Accrual	Average Age
1989	612,821.50	612,822	612,822	1.0000	0			32.5
1990	459,833.84	459,834	459,834	1.0000	0			31.5
1991	226,537.84	226,538	226,538	1.0000	0			30.5
1992	123,556.73	123,557	123,557	1.0000	0			29.5
1993	177,257.96	177,258	177,258	1.0000	0			28.5
1994	71,570.43	71,570	71,570	1.0000	0			27.5
1995	739,642.71	739,643	739,643	1.0000	0			26.5
1996	621,447.77	621,448	621,448	1.0000	0			25.5
1997	453,659.86	453,660	453,660	1.0000	0			24.5
1998	295,025.23	295,025	295,025	1.0000	0			23.5
1999	626,604.17	626,604	626,604	1.0000	0			22.5
2000	368,561.51	368,562	368,562	1.0000	0			21.5
2002	987,545.04	987,545	987,545	1.0000	0			19.5
2003	1,039,351.80	1,039,352	1,039,352	1.0000	0			18.5
2004	308,216.40	308,216	308,216	1.0000	0			17.5
2005	127,533.60	127,534	127,534	1.0000	0			16.5
2006	72,172.80	72,173	72,173	1.0000	0			15.5
2007	479,749.20	479,749	479,749	1.0000	0			14.5
2008	334,473.00	334,473	334,473	1.0000	0			13.5
2009	361,514.40	361,514	361,514	1.0000	0			12.5
2010	312,852.60	312,853	312,853	1.0000	0			11.5
2012	71,808.60	71,809	71,809	1.0000	0			9.5
2014	2,099,918.11	2,099,918	2,099,918	1.0000	0			7.5
2015	2,000,914.80	2,000,915	2,000,915	1.0000	0			6.5
2016	1,143,749.40	1,029,374	1,143,749	1.0000	0	0.50	0	4.5
2017	305,768.40	214,038	279,608	0.9144	26,160	1.50	17,440	3.5
2018	1,297,008.00	648,504	847,173	0.6532	449,835	2.50	179,934	2.5
2019	784,374.00	235,312	307,400	0.3919	476,974	3.50	136,278	1.5

# Enbridge Energy, Limited Partnership

Account #: 16420 - Computer Equipment

CALCULATED ANNUAL ACCRUAL AND ACCRUED DEPRECIATION  
BASED ON ORIGINAL COST AS OF December 31, 2020

ALG - Remaining Life  
Survivor Curve: SQ  
ASL: 5  
Net Salvage: 0%  
Truncation Year: 2040

Year	Original Cost	Calculated Accumulated Depreciation	Allocated Actual Booked Amount	Accumulated Depreciation Factor	Net Book Value	ALG Remaining Life	Annual Accrual	Average Age
2020	1,846,267.86	184,627	241,187	0.1306	1,605,081	4.50	356,685	0.5
TOTAL	18,349,737.56	15,284,425	15,791,688		2,558,050		690,337	

COMPOSITE ANNUAL ACCRUAL RATE	3.76%
THEORETICAL ACCUMULATED DEPRECIATION FACTOR	0.86
COMPOSITE AVERAGE AGE (YEARS)	12.82
ALG COMPOSITE REMAINING LIFE (YEARS)	3.71

# Enbridge Energy, Limited Partnership

Account #: 16510 - Vehicles

ALG - Remaining Life

Survivor Curve: S4

ASL: 6

Net Salvage: 0%

Truncation Year: 2040

## CALCULATED ANNUAL ACCRUAL AND ACCRUED DEPRECIATION

BASED ON ORIGINAL COST AS OF December 31, 2020

Year	Original Cost	Calculated Accumulated Depreciation	Allocated Actual Booked Amount	Accumulated Depreciation Factor	Net Book Value	ALG Remaining Life	Annual Accrual	Average Age
1970	231.42	231	231	1.0000	0			51.5
1971	1,621.69	1,622	1,622	1.0000	0			50.5
1973	4,890.38	4,890	4,890	1.0000	0			48.5
1974	6,815.48	6,815	6,815	1.0000	0			47.5
1975	947.20	947	947	1.0000	0			46.5
1976	48,024.00	48,024	48,024	1.0000	0			45.5
1977	23,105.40	23,105	23,105	1.0000	0			44.5
1978	17,481.78	17,482	17,482	1.0000	0			43.5
1979	24,969.38	24,969	24,969	1.0000	0			42.5
1980	1,742.45	1,742	1,742	1.0000	0			41.5
1981	494.00	494	494	1.0000	0			40.5
1983	120,311.20	120,311	120,311	1.0000	0			38.5
1984	15,891.17	15,891	15,891	1.0000	0			37.5
1985	16,085.87	16,086	16,086	1.0000	0			36.5
1986	62,105.77	62,106	62,106	1.0000	0			35.5
1987	69,571.45	69,571	69,571	1.0000	0			34.5
1988	202,670.81	202,671	202,671	1.0000	0			33.5
1989	402,016.33	402,016	402,016	1.0000	0			32.5
1990	368,490.44	368,490	368,490	1.0000	0			31.5
1991	164,907.06	164,907	164,907	1.0000	0			30.5
1992	187,801.29	187,801	187,801	1.0000	0			29.5
1993	352,146.15	352,146	352,146	1.0000	0			28.5
1994	936,954.83	936,955	936,955	1.0000	0			27.5
1995	398,433.16	398,433	398,433	1.0000	0			26.5
1996	22,465.86	22,466	22,466	1.0000	0			25.5
1999	1,154,112.76	1,154,113	1,154,113	1.0000	0			22.5
2000	1,166,349.72	1,166,350	1,166,350	1.0000	0			21.5
2001	639,656.57	639,657	639,657	1.0000	0			20.5

# Enbridge Energy, Limited Partnership

Account #: 16510 - Vehicles

ALG - Remaining Life

Survivor Curve: S4

ASL: 6

Net Salvage: 0%

Truncation Year: 2040

## CALCULATED ANNUAL ACCRUAL AND ACCRUED DEPRECIATION

BASED ON ORIGINAL COST AS OF December 31, 2020

Year	Original Cost	Calculated Accumulated Depreciation	Allocated Actual Booked Amount	Accumulated Depreciation Factor	Net Book Value	ALG Remaining Life	Annual Accrual	Average Age
2002	338,712.64	338,713	338,713	1.0000	0			19.5
2003	56,820.27	56,820	56,820	1.0000	0			18.5
2004	406,627.77	406,628	406,628	1.0000	0			17.5
2005	325,689.06	325,689	325,689	1.0000	0			16.5
2006	158,984.73	158,985	158,985	1.0000	0			15.5
2007	100,673.05	100,673	100,673	1.0000	0			14.5
2008	1,326,458.61	1,326,459	1,326,459	1.0000	0			13.5
2009	528,912.03	528,912	528,912	1.0000	0			12.5
2010	1,590,792.91	1,590,793	1,590,793	1.0000	0			11.5
2011	2,243,701.47	2,056,726	2,243,701	1.0000	0	0.50	0	9.5
2012	819,873.42	749,502	819,873	1.0000	0	0.51	0	8.5
2013	1,034,294.86	932,854	1,034,295	1.0000	0	0.59	0	7.5
2014	471,692.53	411,888	471,693	1.0000	0	0.76	0	6.5
2015	5,910,566.51	4,833,236	5,910,567	1.0000	0	1.09	0	5.5
2016	1,119,432.15	807,214	1,119,432	1.0000	0	1.67	0	4.5
2017	2,696,588.06	1,563,893	2,371,316	0.8794	325,272	2.52	129,062	3.5
2018	820,430.54	341,791	518,255	0.6317	302,176	3.50	86,326	2.5
2020	1,493,428.58	124,452	188,706	0.1264	1,304,723	5.50	237,222	0.5
<b>TOTAL</b>	<b>27,853,972.79</b>	<b>23,065,522</b>	<b>25,921,803</b>		<b>1,932,170</b>		<b>452,610</b>	

COMPOSITE ANNUAL ACCRUAL RATE 1.62%

THEORETICAL ACCUMULATED DEPRECIATION FACTOR 0.93

COMPOSITE AVERAGE AGE (YEARS) 11.67

ALG COMPOSITE REMAINING LIFE (YEARS) 4.27



# Enbridge Energy, Limited Partnership

Account #: 16520 - Other Work Equipment

CALCULATED ANNUAL ACCRUAL AND ACCRUED DEPRECIATION

BASED ON ORIGINAL COST AS OF December 31, 2020

ALG - Remaining Life

Survivor Curve: SQ

ASL: 25

Net Salvage: 0%

Truncation Year: 2040

Year	Original Cost	Calculated Accumulated Depreciation	Allocated Actual Booked Amount	Accumulated Depreciation Factor	Net Book Value	ALG Remaining Life	Annual Accrual	Average Age
1950	309.40	309	309	1.0000	0			71.5
1952	1,219.69	1,220	1,220	1.0000	0			69.5
1953	5,394.81	5,395	5,395	1.0000	0			68.5
1954	3,417.65	3,418	3,418	1.0000	0			67.5
1957	904.37	904	904	1.0000	0			64.5
1958	315.47	315	315	1.0000	0			63.5
1959	978.33	978	978	1.0000	0			62.5
1961	358.10	358	358	1.0000	0			60.5
1964	1,203.65	1,204	1,204	1.0000	0			57.5
1965	1,939.13	1,939	1,939	1.0000	0			56.5
1966	226.99	227	227	1.0000	0			55.5
1967	18,415.25	18,415	18,415	1.0000	0			54.5
1968	31,509.82	31,510	31,510	1.0000	0			53.5
1969	18,323.91	18,324	18,324	1.0000	0			52.5
1970	198,769.65	198,770	198,770	1.0000	0			51.5
1971	30,795.22	30,795	30,795	1.0000	0			50.5
1972	143,745.42	143,745	143,745	1.0000	0			49.5
1973	171,834.19	171,834	171,834	1.0000	0			48.5
1974	111,286.07	111,286	111,286	1.0000	0			47.5
1975	33,859.76	33,860	33,860	1.0000	0			46.5
1977	12,401.90	12,402	12,402	1.0000	0			44.5
1978	45,149.87	45,150	45,150	1.0000	0			43.5
1981	145,891.48	145,891	145,891	1.0000	0			40.5
1982	116,957.45	116,957	116,957	1.0000	0			39.5
1983	215,150.26	215,150	215,150	1.0000	0			38.5
1984	20,019.40	20,019	20,019	1.0000	0			37.5
1985	175,925.76	175,926	175,926	1.0000	0			36.5
1986	183,460.05	183,460	183,460	1.0000	0			35.5

# Enbridge Energy, Limited Partnership

Account #: 16520 - Other Work Equipment

CALCULATED ANNUAL ACCRUAL AND ACCRUED DEPRECIATION

BASED ON ORIGINAL COST AS OF December 31, 2020

ALG - Remaining Life

Survivor Curve: SQ

ASL: 25

Net Salvage: 0%

Truncation Year: 2040

Year	Original Cost	Calculated Accumulated Depreciation	Allocated Actual Booked Amount	Accumulated Depreciation Factor	Net Book Value	ALG Remaining Life	Annual Accrual	Average Age
1987	279,629.83	279,630	279,630	1.0000	0			34.5
1988	454,665.95	454,666	454,666	1.0000	0			33.5
1989	433,104.05	433,104	433,104	1.0000	0			32.5
1990	403,712.58	403,713	403,713	1.0000	0			31.5
1991	1,065,521.18	1,065,521	1,065,521	1.0000	0			30.5
1992	1,061,599.36	1,061,599	1,061,599	1.0000	0			29.5
1993	1,072,654.29	1,072,654	1,072,654	1.0000	0			28.5
1994	1,245,949.02	1,245,949	1,245,949	1.0000	0			27.5
1995	580,633.10	580,633	580,633	1.0000	0			26.5
1996	1,398,554.54	1,370,583	1,398,555	1.0000	0	0.50	0	24.5
1997	574,000.89	539,561	574,001	1.0000	0	1.50	0	23.5
1998	545,629.83	491,067	545,630	1.0000	0	2.50	0	22.5
1999	287,345.28	247,117	287,345	1.0000	0	3.50	0	21.5
2000	727,193.81	596,299	727,194	1.0000	0	4.50	0	20.5
2001	594,346.10	463,590	594,346	1.0000	0	5.50	0	19.5
2002	44,474.18	32,911	44,474	1.0000	0	6.50	0	18.5
2003	171,505.14	120,054	171,505	1.0000	0	7.50	0	17.5
2004	789,336.26	520,962	789,336	1.0000	0	8.50	0	16.5
2005	632,219.94	391,976	632,220	1.0000	0	9.50	0	15.5
2006	308,617.41	178,998	308,617	1.0000	0	10.50	0	14.5
2007	205,578.67	111,012	205,579	1.0000	0	11.50	0	13.5
2008	2,574,890.24	1,287,445	2,574,890	1.0000	0	12.50	0	12.5
2009	1,026,711.58	472,287	1,026,712	1.0000	0	13.50	0	11.5
2010	3,088,009.76	1,296,964	3,088,010	1.0000	0	14.50	0	10.5
2011	4,355,420.51	1,655,060	4,355,421	1.0000	0	15.50	0	9.5
2012	1,591,518.98	541,116	1,591,519	1.0000	0	16.50	0	8.5
2013	2,007,748.84	602,325	2,007,749	1.0000	0	17.50	0	7.5
2014	915,638.43	238,066	915,638	1.0000	0	18.50	0	6.5

Enbridge Energy, Limited Partnership

Account #: 16520 - Other Work Equipment

CALCULATED ANNUAL ACCRUAL AND ACCRUED DEPRECIATION

BASED ON ORIGINAL COST AS OF December 31, 2020

ALG - Remaining Life

Survivor Curve: SQ

ASL: 25

Net Salvage: 0%

Truncation Year: 2040

Year	Original Cost	Calculated Accumulated Depreciation	Allocated Actual Booked Amount	Accumulated Depreciation Factor	Net Book Value	ALG Remaining Life	Annual Accrual	Average Age
2015	11,473,452.65	2,524,160	11,473,453	1.0000	0	19.50	0	5.5
2016	2,173,015.34	407,440	2,173,015	1.0000	0	19.50	0	4.5
2017	5,234,553.30	796,562	4,563,161	0.8717	671,392	19.50	34,430	3.5
2018	1,592,600.46	180,977	1,036,741	0.6510	555,860	19.50	28,506	2.5
2020	2,899,008.42	72,475	415,179	0.1432	2,483,829	19.50	127,376	0.5
TOTAL	53,498,602.98	23,426,241	49,787,522		3,711,081		190,312	

COMPOSITE ANNUAL ACCRUAL RATE	0.36%
THEORETICAL ACCUMULATED DEPRECIATION FACTOR	0.93
COMPOSITE AVERAGE AGE (YEARS)	12.06
ALG COMPOSITE REMAINING LIFE (YEARS)	19.50

# Enbridge Energy, Limited Partnership

Account #: 16600 - Other Property

## CALCULATED ANNUAL ACCRUAL AND ACCRUED DEPRECIATION

BASED ON ORIGINAL COST AS OF December 31, 2020

ALG - Remaining Life

Survivor Curve: SQ

ASL: 25

Net Salvage: 0%

Truncation Year: 2040

Year	Original Cost	Calculated Accumulated Depreciation	Allocated Actual Booked Amount	Accumulated Depreciation Factor	Net Book Value	ALG Remaining Life	Annual Accrual	Average Age
1993	1,090,540.89	1,090,541	1,090,541	1.0000	0			28.5
1994	1,577,698.60	1,577,699	1,577,699	1.0000	0			27.5
1995	2,598,926.04	2,598,926	2,598,926	1.0000	0			26.5
1996	328,201.66	321,638	328,202	1.0000	0	0.50	0	24.5
1997	60,685.69	57,045	60,686	1.0000	0	1.50	0	23.5
1998	5,449.00	4,904	5,449	1.0000	0	2.50	0	22.5
1999	9,445.06	8,123	9,445	1.0000	0	3.50	0	21.5
2002	15,203.94	11,251	15,204	1.0000	0	6.50	0	18.5
2003	521,618.00	365,133	521,618	1.0000	0	7.50	0	17.5
2007	1,533,460.00	828,068	1,533,460	1.0000	0	11.50	0	13.5
2008	75,219.00	37,610	75,219	1.0000	0	12.50	0	12.5
2009	1,363.00	627	1,363	1.0000	0	13.50	0	11.5
2011	797,555.00	303,071	797,555	1.0000	0	15.50	0	9.5
2019	1,375,326.00	98,238	1,086,445	0.7900	288,881	19.50	14,814	1.5
2020	1,044,839.00	26,121	288,881	0.2765	755,958	19.50	38,767	0.5
<b>TOTAL</b>	<b>11,035,530.89</b>	<b>7,328,992</b>	<b>9,990,692</b>		<b>1,044,839</b>		<b>53,581</b>	

COMPOSITE ANNUAL ACCRUAL RATE 0.49%

THEORETICAL ACCUMULATED DEPRECIATION FACTOR 0.91

COMPOSITE AVERAGE AGE (YEARS) 17.61

ALG COMPOSITE REMAINING LIFE (YEARS) 19.50