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TOTAL RESOURCE COST PLUS AND PROGRAM ADMINISTRATOR COST ANALYSIS

- 1. In accordance with the Ontario Energy Board's (the "Board") EB-2014-0134 Filing Guidelines to the Demand Side Management Framework for Natural Gas Distributors (2015-2020) ("DSM Filing Guidelines"), the Board indicates that Enbridge Gas Distribution Inc. ("Enbridge" or the "Company") should screen its Demand Side Management ("DSM") Programs using the Total Resource Cost Plus ("TRC-Plus") Test as a primary screening mechanism. In the DSM Filing Guidelines to the 2015 to 2020 DSM Framework EB-2014-0134 the Board "has determined that the natural gas utilities should screen prospective DSM programs using the Total Resource Cost-Plus ("TRC-Plus") test. The TRC-Plus test measures the benefits and costs of DSM programs for as long as those benefits and costs persist and applies a 15% non-energy benefit adder."
- 2. The Board has also instructed the gas utilities to use the Program Administrator Cost ("PAC") Test as a secondary test to help prioritize programs within its DSM Portfolio.² "The PAC test measures the gas utilities' avoided costs and the costs of DSM programs experienced by the gas utility system".³ Both the TRC and the PAC Test are also used by Local Distribution Companies ("LDCs") when screening Conservation and Demand Management ("CDM") programs, providing for a degree of comparability and consistency between the cost-effectiveness of DSM and CDM.
- 3. As per Section 15.1 of the DSM Framework Enbridge shall treat 2015 as a Transition Year in which DSM programs, budgets, targets and shareholder incentives are rolled forward from 2014 into 2015. On this basis, the costeffectiveness analysis relevant to the 2015 Transition Year can be found at

Witnesses: R. Idenouye

S. Moffat

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B. Ott

¹ EB-2014-0134, "Filing Guidelines to the 2015-2020 DSM Framework", December 22, 2014, Section 9.0 Cost-Effectiveness Screening, page 32

² EB-2014-0134, "Repor of the Board: Demand Side Management Framework for Natural Gas Distributors (2015-2020)", December 22, 2014, Section 9.0 Cost-Effectiveness Screening, page 32 ³ IBID

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EB-2012-0394, Exhibit B, Tab 2, Schedule 3, page 3, subject to updates as appropriate.

4. Tables 1 through 5 present the TRC-Plus analysis and ratio, as well as the PAC analysis and ratio for Enbridge's programs and offers from 2016 to 2020.

Witnesses: R. Idenouye

S. Moffat

F. Oliver Glasford

B. Ott

Corrected: 2015-06-26

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Table 1: 2016 TRC-Plus and PAC Analysis and Ratios

	20	2016 Total Resource Acquisition & Low Income	source Acq	uisition & L	ow Incom	9	TRC + 15	TRC + 15% Societal Benefits		PACT + 1	PACT + 15% Societal Benefits	Senefits
Multi-Year TRC Scenarios	Participants or Total NPV Units Installed Benefits	Total NPV Benefits	Total Incremental Costs	Total Incentive Total Fixed Costs Costs	Total Fixed Costs	Total Administrative Costs	TRC Total Costs	TRC Net Benefit TRC Ratio	TRC Ratio	PACT Total Cost	PACT Net Benefit	PACT Ratio
Resource Acquisition & Low Income	27,593	\$197,679,402	\$61,788,935	\$28,302,232	\$9,955,306	\$9,532,442	\$81,276,683	27,593 \$197,679,402 \$61,788,935 \$28,302,232 \$9,955,306 \$9,532,442 \$81,276,683 \$116,402,720 2.43 \$47,789,979 \$149,889,423 4.14	2.43	\$47,789,979	\$149,889,423	4.14
Resource Acquisition	25,175	\$181,910,918		\$21,049,291	\$8,173,154	\$7,095,334	\$68,689,373	\$53,420,885 \$21,049,291 \$8,173,154 \$7,095,334 \$68,689,373 \$113,221,545	2.65	\$36,317,779	\$36,317,779 \$145,593,139	5.01
Low Income	2,418	\$15,768,484	\$8,368,050	\$7,252,941	\$1,782,152	58,368,050 \$7,252,941 \$1,782,152 \$2,437,108 \$12,587,310 \$3,181,174	\$12,587,310	\$3,181,174	1.25	1.25 \$11,472,200 \$4,296,284	\$4,296,284	1.37

		201	2016 Resource Acquisition	Acquisitio	u		TRC + 15	TRC + 15% Societal Benefits	enefits	PACT + 1!	PACT + 15% Societal Benefits	Senefits
Resource Acquisition TRC Scenarios	Participants or Units Installed	Total NPV Benefits	Total Incremental Costs	Total Incentive Total Fixed Costs Costs	Total Fixed Costs	Total Administrative Costs	TRC Total Costs	TRC Net Benefit	TRC Ratio	PACT Total Cost	PACT Net Benefit	PACT Ratio
Large Customers												
Large Custom	727	\$107,723,103	\$33,514,579	\$4,961,668	\$1,213,962	\$0	\$34,728,541	\$72,994,562	3.10	\$6,175,630	\$101,547,473	17.44
Large Prescriptive	4,165	\$12,651,668	\$624,575	\$686,971	\$541,225	\$0	\$1,165,800	\$11,485,868	10.85	\$1,228,195	\$11,423,473	10.30
Small Customers												
Small Custom	112	\$6,548,034	\$5,145,084	\$442,932	\$402,102	\$0	\$5,547,187	\$1,000,847	1.18	\$845,034	\$5,702,999	7.75
Small Prescriptive	1,959	\$14,135,866	\$293,721	\$767,561	\$201,196	\$0	\$494,916	\$13,640,950	28.56	\$968,757	\$13,167,109	14.59
Small DI	1,679	\$12,116,457	\$251,760	\$3,647,650	\$1,307,771	\$0	\$1,559,531	\$10,556,925	77.7	\$4,955,421	\$7,161,036	2.45
Residential Thermostats	9,014	\$4,883,593	\$2,704,231	\$676,058	\$200,313	\$0	\$2,904,544	\$1,979,049	1.68	\$876,371	\$4,007,222	5.57
Residential CER	805'2	\$23,614,454	\$10,886,935	\$9,145,025	\$3,003,292	\$0	\$13,890,227	\$9,724,227	1.70	\$12,148,317	\$11,466,137	1.94
RA Overall TRC	25,175	\$181,910,918	•	\$21,049,291	\$53,420,885 \$21,049,291 \$8,173,154	\$7,095,334 \$68,689,373 \$113,221,545	\$68,689,373	\$113,221,545	2.65	\$36,317,779	\$36,317,779 \$145,593,139	5.01

Benefits	PACT Ratio	3.04	1.01	1.37
TRC + 15% Societal Benefits PACT + 15% Societal Benefits	PACT Net Benefit	\$3,279,028 \$6,676,172	\$57,220	1.25 \$11,472,200 \$4,296,284
PACT + 1	PACT Total Cost	\$3,279,028	1.20 \$5,756,064 \$57,220	\$11,472,200
Senefits	TRC Ratio	1.87	1.20	
% Societal E	TRC Net Benefit TRC Ratio	\$5,310,541 \$4,644,659	\$973,623	\$8,368,050 \$7,252,941 \$1,782,152 \$2,437,108 \$12,587,310 \$3,181,174
TRC + 15	TRC Total Costs	\$5,310,541	\$4,839,661	\$12,587,310
	Total Administrative Costs	0\$	\$0	\$2,437,108
	Total Fixed Costs	\$852,547	\$929,604	\$1,782,152
Income	Total Incentive Total Fixed Costs Costs	\$4,457,993 \$2,426,481 \$852,547	\$3,910,056 \$4,826,460	\$7,252,941
2016 Low Income	Total Incremental Costs	\$4,457,993	\$3,910,056	\$8,368,050
	Total NPV Benefits	\$9,955,200	\$5,813,284	\$15,768,484
	Participants or Units Installed	217	2,201	2,418
	Low Income TRC Scenarios	Multi-Family Homes - Part 3	Single Family Homes - Part 9	LI Overall TRC

Witnesses: R. Idenouye S. Moffat

F. Oliver Glasford

B. Ott

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Table 2: 2017 TRC-Plus and PAC Analysis and Ratios

	2	2017 Total Resource Acquisition & Low Income	source Acc	uisition & I	ow Income	a	TRC + 15	TRC + 15% Societal Benefits	enefits	PACT + 1!	PACT + 15% Societal Benefits	Senefits
Multi-Year TRC Scenarios	Participants or Total NPV Units Installed Benefits	Total NPV Benefits	Total Incremental Costs	Total Incentive Total Fixed Costs Costs	Total Fixed Costs	Total Administrative Costs	TRC Total Costs	TRC Net Benefit TRC Ratio	TRC Ratio	PACT Total Cost	PACT Net Benefit	PACT Ratio
Resource Acquisition & Low Income	39,221	\$214,079,341	\$68,412,131	\$33,132,221	\$10,254,095	\$9,966,611	\$88,632,836	39,221 \$214,079,341 \$68,412,131 \$33,132,221 \$10,254,095 \$9,966,611 \$88,632,836 \$125,446,504		\$53,352,927	2.42 \$53,352,927 \$160,726,414	4.01
Resource Acquisition	36,683	918'615'261\$	\$59,621,660	\$25,370,572 \$8,357,623		\$7,602,524	\$7,602,524 \$75,581,808 \$121,938,068	\$121,938,068	2.61	\$41,330,719 \$156,189,157	\$156,189,157	4.78
Low Income	2,538	\$16,559,465	\$8,790,471	\$7,761,650 \$1,896,471		\$2,364,087 \$13,051,029	\$13,051,029	\$3,508,436	1.27	\$12,022,208	\$4,537,257	1.38

		20	2017 Resource Acquisition	e Acquisitio	u.		TRC + 15	TRC + 15% Societal Benefits	enefits	PACT + 1!	PACT + 15% Societal Benefits	enefits
Resource Acquisition TRC Scenarios	Participants or Units Installed	Total NPV Benefits	Total Incremental Costs	Total Incentive Costs	Total Fixed Costs	Total Administrative Costs	TRC Total Costs	TRC Net Benefit	TRC Ratio	PACT Total Cost	PACT Net Benefit	PACT Ratio
Large Customers												
Large Custom	723	\$107,131,840	\$33,330,627	\$5,056,873	\$1,237,255	\$0	\$34,567,882	\$72,563,958	3.10	\$6,294,128	\$100,837,712	17.02
Large Prescriptive	4,142	\$12,582,226	\$621,147	\$700,152	\$551,610	\$0	\$1,172,757	\$11,409,470	10.73	\$1,251,762	\$11,330,464	10.05
Small Customers												
Small Custom	113	\$6,639,307	\$5,216,802	\$452,358	\$410,659	\$0	\$5,627,461	\$1,011,846	1.18	\$863,017	\$5,776,290	7.69
Small Prescriptive	1,986	\$14,332,906	\$297,815	\$783,895	\$205,477	\$0	\$503,292	\$13,829,614	28.48	\$989,372	\$13,343,534	14.49
Small DI	1,702	\$12,285,348	\$255,270	\$3,725,272	\$1,335,600	\$0	\$1,590,870	\$10,694,478	7.72	\$5,060,872	\$7,224,476	2.43
Residential Thermostats	18,000	\$9,751,905	\$5,400,000	\$1,350,000	\$175,000	\$0	\$5,575,000	\$4,176,905	1.75	\$1,525,000	\$8,226,905	6.39
Residential CER	10,000	\$31,451,423	\$14,500,000	\$12,180,000	\$3,000,000	\$0	\$17,500,000	\$13,951,423	1.80	\$15,180,000	\$16,271,423	2.07
RA Overall TRC	36,683	\$197,519,876 \$59,621,660 \$25,370,572 \$8,357,623 \$7,602,524 \$75,581,808 \$121,938,068	\$59,621,660	\$25,370,572	\$8,357,623	\$7,602,524	\$75,581,808	\$121,938,068	2.61	\$41,330,719 \$156,189,157	\$156,189,157	4.78

			2017 Low Income	Income			TRC + 15	TRC + 15% Societal Benefits		PACT + 15	PACT + 15% Societal Benefits	Benefits
Low Income TRC Scenarios	Participants or Units Installed	Total NPV Benefits	Total Incremental Costs	Total Incentive Total Fixed Costs Costs	Total Fixed Costs	Total Administrative Costs	TRC Total Costs	TRC Net Benefit TRC Ratio	TRC Ratio	PACT Total Cost	PACT Net Benefit	PACT Ratio
Multi-Family Homes - Part 3	228	\$10,458,881	\$4,686,633	\$4,686,633 \$2,529,410	\$888,711	\$0	\$5,575,345	\$5,575,345 \$4,883,536	1.88	\$3,418,121 \$7,040,760	\$7,040,760	3.06
Single Family Homes - Part 9	2,310	\$6,100,583	\$4,103,837	\$4,103,837 \$5,232,240 \$1,007,760	\$1,007,760	\$0	\$5,111,597	\$988,986	1.19	\$6,240,000 -\$139,417	-\$139,417	0.98
LI Overall TRC	2,538	2,538 \$16,559,465	\$8,790,471	\$7,761,650	\$1,896,471	\$2,364,087	\$13,051,029	\$8,790,471 \$7,761,650 \$1,896,471 \$2,364,087 \$13,051,029 \$3,508,436	1.27	1.27 \$12,022,208 \$4,537,257	\$4,537,257	1.38

Witnesses: R. Idenouye S. Moffat

F. Oliver Glasford

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Table 3: 2018 TRC-Plus and PAC Analysis and Ratios

	20	2018 Total Resource Acquisition & Low Income	source Aco	quisition & I	ow Incom		TRC + 15	TRC + 15% Societal Benefits	enefits	PACT + 1	PACT + 15% Societal Benefits	Benefits
Part Multi-Year TRC Scenarios Unit	Participants or Total NPV Units Installed Benefits	Total NPV Benefits	Total Incremental Costs	Total Incentive Total Fixed Costs Costs	Total Fixed Costs	Total Administrative Costs	TRC Total Costs	TRC Net Benefit TRC Ratio	TRC Ratio	PACT Total Cost	PACT Net Benefit	PACT Ratio
Resource Acquisition & Low 5	50,480	50,480 \$228,930,159	\$75,514,353	\$37,660,849	\$10,007,457	\$75,514,353 \$37,660,849 \$10,007,457 \$10,334,976 \$95,856,786 \$133,073,372	\$95,856,786	\$133,073,372	2.39	\$58,003,282	\$58,003,282 \$170,926,876	3.95
Resource Acquisition	47,913	47,913 \$211,063,335	\$66,127,776	\$66,127,776 \$29,449,803 \$7,978,007	\$7,978,007	\$7,985,813	\$82,091,596 \$128,971,738	\$128,971,738	2.57	\$45,413,623 \$165,649,712	\$165,649,712	4.65
Low Income	2,567	\$17,866,824	\$9,386,577	\$9,386,577 \$8,211,046 \$2,029,450		\$2,349,163 \$13,765,190 \$4,101,634	\$13,765,190	\$4,101,634	1.30	\$12,589,659	\$5,277,165	1.42

		20	18 Resourc	2018 Resource Acquisition	u		TRC + 19	TRC + 15% Societal Benefits	senefits	PACT + 1	PACT + 15% Societal Benefits	Senefits
Resource Acquisition TRC Scenarios	Participants or Units Installed	Total NPV Benefits	Total Incremental Costs	Total Incentive Costs	Total Fixed Costs	Total Administrative Costs	TRC Total Costs	TRC Net Benefit	TRC Ratio	PACT Total Cost	PACT Net Benefit	PACT Ratio
Large Customers												
Large Custom	739	\$109,497,756	\$34,066,705	\$5,262,555	\$1,287,579	\$0	\$35,354,284	\$74,143,471	3.10	\$6,550,134	\$102,947,622	16.72
Large Prescriptive	4,234	\$12,860,094	\$634,864	\$728,630	\$574,046	\$0	\$1,208,910	\$11,651,184	10.64	\$1,302,676	\$11,557,418	9.87
Small Customers												
Small Custom	106	\$6,242,419	\$4,904,950	\$425,317	\$386,111	\$0	\$5,291,060	\$951,359	1.18	\$811,427	\$5,430,992	7.69
Small Prescriptive	1,867	\$13,476,108	\$280,012	\$737,035	\$193,194	\$0	\$473,206	\$13,002,902	28.48	\$930,229	\$12,545,879	14.49
Small DI	1,600	\$11,550,949	\$240,010	\$3,502,583	\$1,255,761	\$0	\$1,495,771	\$10,055,178	7.72	\$4,758,344	\$6,792,606	2.43
Residential Thermostats	27,000	\$14,627,858	\$8,100,000	\$2,025,000	\$150,000	\$0	\$8,250,000	\$6,377,858	1.77	\$2,175,000	\$12,452,858	6.73
Residential CER	12,346	\$38,828,917	\$17,901,235	\$15,461,213	\$2,538,787	\$0	\$20,440,022	\$18,388,895	1.90	\$18,000,000	\$20,828,917	2.16
RA Overall TRC	47,913	\$211,063,335	\$66,127,776	5 \$66,127,776 \$29,449,803 \$7,978,007	\$7,978,007	\$7,985,813	\$82,091,596	\$82,091,596 \$128,971,738	2.57	\$45,413,623 \$165,649,712	\$165,649,712	4.65

			2018 Low	2018 Low Income			TRC + 15	TRC + 15% Societal Benefits	Benefits	PACT + 1	PACT + 15% Societal Benefits	Benefits
Low Income TRC Scenarios	Participants or Units Installed	Total NPV Benefits	Total Incremental Costs	Total Incentive Total Fixed Costs Costs	Total Fixed Costs	Total Administrative Costs	TRC Total Costs	TRC Net Benefit TRC Ratio	TRC Ratio	PACT Total Cost	PACT Net Benefit	PACT Ratio
Multi-Family Homes - Part 3	257	\$11,766,241 \$5,282,740 \$2,821,839	\$5,282,740	\$2,821,839	\$991,457	\$0	\$6,274,197	\$6,274,197 \$5,492,044	1.88	\$3,813,296	1.88 \$3,813,296 \$7,952,945	3.09
Single Family Homes - Part 9	2,310	\$6,100,583	\$4,103,837	\$6,100,583 \$4,103,837 \$5,389,207 \$1,037,993	\$1,037,993	\$0	\$5,141,830 \$958,753	\$958,753	1.19	\$6,427,200	1.19 \$6,427,200 -\$326,617	0.95
LI Overall TRC	2,567	\$17,866,824	\$9,386,577	\$8,211,046	\$2,029,450	\$2,349,163	\$13,765,190	824 \$9,386,577 \$8,211,046 \$2,029,450 \$2,349,163 \$13,765,190 \$4,101,634		\$12,589,659	1.30 \$12,589,659 \$5,277,165	1.42

Witnesses: R. Idenouye S. Moffat

F. Oliver Glasford

B. Ott

Corrected: 2015-06-26 EB-2015-0049

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Table 4: 2019 TRC-Plus and PAC Analysis and Ratios

	2	2019 Total Resource Acquisition & Low Income	source Aco	quisition &	Low Incom	9	TRC + 159	TRC + 15% Societal Benefits	enefits	PACT + 1	PACT + 15% Societal Benefits	Benefits
Multi-Year TRC Scenarios	Participants or Total NPV Units Installed Benefits	Total NPV Benefits	Total Incremental Costs	Total Incentive Total Fixed Costs Costs	Total Fixed Costs	Total Administrative Costs	Total Administrative TRC Total Costs TRC Net Benefit TRC Ratio Costs	TRC Net Benefit	TRC Ratio	PACT Total Cost	PACT Net Benefit	PACT Ratio
Resource Acquisition & Low Income	53,654	\$244,216,107	\$80,430,185	\$40,310,421	\$9,925,335	\$10,541,676	53,654 \$244,216,107 \$80,430,185 \$40,310,421 \$9,925,335 \$10,541,676 \$100,897,196 \$143,318,911 2.42 \$60,777,432 \$183,438,675	\$143,318,911	2.42	\$60,777,432	\$183,438,675	4.02
Resource Acquisition	51,103	51,103 \$226,104,202 \$70,952,218 \$31,935,153 \$7,855,297	\$70,952,218	\$31,935,153	\$7,855,297	\$8,145,529	\$86,953,044 \$139,151,158	\$139,151,158	2.60	\$47,935,979	\$47,935,979 \$178,168,223	4.72
Low Income	2,551	\$18,111,905 \$9,477,967 \$8,375,267 \$2,070,039	\$9,477,967	\$8,375,267	\$2,070,039	\$2,396,147	\$13,944,152	\$4,167,753	1.30	\$12,841,453 \$5,270,453	\$5,270,453	1.41

		2019	19 Resource	Resource Acquisition	u		TRC + 15	TRC + 15% Societal Benefits	enefits	PACT + 1	PACT + 15% Societal Benefits	enefits
Resource Acquisition TRC Scenarios	Participants or Units Installed	Total NPV Benefits	Total Incremental Costs	Total Incentive Costs	Total Fixed Costs	Total Administrative Costs	TRC Total Costs	Total TRC Total Costs TRC Net Benefit Costs	TRC Ratio	PACT Total Cost	PACT Net Benefit	PACT Ratio
Large Customers												
Large Custom	784	\$116,042,833	\$36,102,996	\$5,674,151	\$1,388,283	\$0	\$37,491,279	\$78,551,554	3.10	\$7,062,435	\$108,980,398	16.43
Large Prescriptive	4,487	\$13,628,788	\$672,813	\$785,618	\$618,943	0\$	\$1,291,756	\$12,337,033	10.55	\$1,404,561	\$12,224,227	9.70
Small Customers												
Small Custom	115	\$6,730,651	\$5,288,575	\$458,581	\$416,309	80	\$5,704,884	\$1,025,767	1.18	\$874,891	\$5,855,760	7.69
Small Prescriptive	2,013	\$14,530,099	\$301,912	\$794,680	\$208,304	\$0	\$510,216	\$14,019,883	28.48	\$1,002,984	\$13,527,115	14.49
Small DI	1,726	\$12,454,371	\$258,782	\$3,776,527	\$1,353,977	\$0	\$1,612,759	\$10,841,612	7.72	\$5,130,504	\$7,323,867	2.43
Residential Thermostats	28,271	\$15,316,532	\$8,481,345	\$2,120,336	\$98,164	\$0	\$8,579,509	\$6,737,023	1.79	\$2,218,500	\$13,098,032	6.90
Residential CER	13,687	\$43,046,794	\$19,845,796	\$17,013,270	\$2,394,549	\$0	\$22,240,345	\$20,806,449	1.94	\$19,407,819	\$23,638,974	2.22
RA Overall TRC	51,103	51,103 \$226,104,202 \$70,952,218 \$31,935,153 \$7,855,297	\$70,952,218	\$31,935,153	\$7,855,297	\$8,145,529 \$86,953,044 \$139,151,158	\$86,953,044	\$139,151,158	2.60	\$47,935,979	\$47,935,979 \$178,168,223	4.72

			2019 Low Income	/ Income			TRC + 15	TRC + 15% Societal Benefits		PACT + 1!	PACT + 15% Societal Benefits	Senefits
Low Income TRC Scenarios	Participants or Units Installed	Total NPV Benefits	Total Incremental Costs	Total Incentive Total Fixed Costs Costs	Total Fixed Costs	Total Administrative Costs	TRC Total Costs	Total Administrative TRC Total Costs TRC Net Benefit TRC Ratio Costs	TRC Ratio	PACT Total Cost	PACT Net Benefit	PACT Ratio
Multi-Family Homes - Part 3	263	\$12,070,551	\$5,413,973	\$5,413,973 \$2,878,276 \$1,011,286	\$1,011,286	80	\$6,425,259	\$6,425,259 \$5,645,292		\$3,889,562	1.88 \$3,889,562 \$8,180,989	3.10
Single Family Homes - Part 9	2,288	\$6,041,355	\$4,063,994	\$4,063,994 \$5,496,991 \$1,058,753	\$1,058,753	\$0	\$5,122,747	\$918,608	1.18	\$6,555,744	1.18 \$6,555,744 -\$514,389	0.92
LI Overall TRC	2,551	\$18,111,905	\$9,477,967	\$8,375,267	\$2,070,039	\$2,396,147	\$13,944,152	\$9,477,967 \$8,375,267 \$2,070,039 \$2,396,147 \$13,944,152 \$4,167,753 1.30 \$12,841,453 \$5,270,453	1.30	\$12,841,453	\$5,270,453	1.41

Witnesses: R. Idenouye S. Moffat

F. Oliver Glasford

B. Ott

Corrected: 2015-06-26 EB-2015-0049

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Table 5: 2020 TRC-Plus and PAC Analysis and Ratios

	2	2020 Total Resource Acquisition & Low Income	source Acc	uisition & I	Low Incom	e	TRC + 159	TRC + 15% Societal Benefits	nefits	PACT + 19	PACT + 15% Societal Benefits	Benefits
Multi-Year TRC Scenarios	Participants or Units Installed	Total NPV Benefits	Total Incremental Costs	Total Incentive Total Fixed Costs Costs	Total Fixed Costs	Total Administrative Costs	Total Administrative TRC Total Costs TRC Net Benefit TRC Ratio Costs	TRC Net Benefit	TRC Ratio	PACT Total Cost	PACT Net Benefit	PACT Ratio
Resource Acquisition & Low Income	55,121	\$248,761,523	\$81,836,574	\$41,151,041	\$10,092,613	\$10,752,509	55,121 \$248,761,523 \$81,836,574 \$41,151,041 \$10,092,613 \$10,752,509 \$102,681,696 \$146,079,828	\$146,079,828	2.42	\$61,996,163	2.42 \$61,996,163 \$186,765,361	4.01
Resource Acquisition	52,586	\$230,397,348	\$72,271,707	\$32,608,268	\$7,981,173	5230,397,348 572,271,707 532,608,268 57,981,173 58,308,440	\$88,561,320 \$141,836,028	\$141,836,028	2.60	\$48,897,881	\$48,897,881 \$181,499,466	4.71
Low Income	2,535	\$18,364,176	\$9,564,867	\$8,542,773 \$2,111,440			\$2,444,070 \$14,120,376 \$4,243,800	\$4,243,800	1.30	\$13,098,282 \$5,265,894	\$5,265,894	1.40

		202	20 Resource	20 Resource Acquisition	u		TRC + 15	TRC + 15% Societal Benefits	enefits	PACT + 1	PACT + 15% Societal Benefits	enefits
Resource Acquisition TRC Scenarios	Participants or Units Installed	Total NPV Benefits	Total Incremental Costs	Total Incentive Costs	Total Fixed Costs	Total Administrative Costs	TRC Total Costs	TRC Total Costs TRC Net Benefit	TRC Ratio	PACT Total Cost	PACT Net Benefit	PACT Ratio
Large Customers												
Large Custom	287	\$116,492,346	\$36,242,847	\$5,787,634	\$1,416,049	0\$	\$37,658,896	\$78,833,450	3.09	\$7,203,683	\$109,288,663	16.17
Large Prescriptive	4,504	\$13,681,582	\$675,419	\$801,330	\$631,322	0\$	\$1,306,741	\$12,374,841	10.47	\$1,432,652	\$12,248,930	9.55
Small Customers												
Small Custom	117	\$6,865,266	\$5,394,348	\$467,753	\$424,635	0\$	\$5,818,984	\$1,046,282	1.18	\$892,389	\$5,972,878	7.69
Small Prescriptive	2,054	\$14,820,706	\$307,950	\$810,574	\$212,470	0\$	\$520,421	\$14,300,286	28.48	\$1,023,044	\$13,797,662	14.49
Small DI	1,760	\$12,703,463	\$263,958	\$3,852,058	\$1,381,056	0\$	\$1,645,014	\$11,058,449	7.72	\$5,233,114	\$7,470,348	2.43
Residential Thermostats	59,094	\$15,762,352	\$8,728,213	\$2,182,053	\$80,817	0\$	\$8,809,030	\$6,953,323	1.79	\$2,262,870	\$13,499,482	6.97
Residential CER	14,248	\$44,810,623	\$20,658,971	\$17,353,536	\$2,442,440	\$0	\$23,101,411	\$21,709,212	1.94	\$19,795,976	\$25,014,647	2.26
RA Overall TRC	52,586	52,586 \$230,397,348	\$72,271,707	\$72,271,707 \$32,608,268 \$7,981,173	\$7,981,173	\$8,308,440 \$88,561,320 \$141,836,028	\$88,561,320	\$141,836,028	2.60	\$48,897,881	\$48,897,881 \$181,499,466	4.71

			2020 Low	2020 Low Income			TRC + 159	TRC + 15% Societal Benefits PACT + 15% Societal Benefits	enefits	PACT + 15	5% Societal E	Senefits
Low Income TRC Scenarios	Participants or Units Installed	Total NPV Benefits	Total Incremental Costs	Total Incentive Total Fixed Costs Costs	Total Fixed Costs	Total Administrative Costs	TRC Total Costs	Total dministrative TRC Total Costs TRC Net Benefit TRC Ratio Costs	TRC Ratio	PACT Total Cost	PACT Net Benefit	PACT Ratio
Multi-Family Homes - Part 3	270	270 \$12,381,475	\$5,540,329	\$5,540,329 \$2,935,841 \$1,031,512	\$1,031,512	0\$	\$6,571,841	\$6,571,841 \$5,809,634 1.88 \$3,967,353 \$8,414,122	1.88	\$3,967,353	\$8,414,122	3.12
Single Family Homes - Part 9	2,265	\$5,982,701	\$4,024,538	\$4,024,538 \$5,606,931 \$1,079,928	\$1,079,928	\$0	\$5,104,466 \$878,235		1.17	\$6,686,859	1.17 \$6,686,859 -\$704,158	0.89
LI Overall TRC	2,535	2,535 \$18,364,176		\$8,542,773	\$2,111,440	\$2,444,070	\$14,120,376	\$9,564,867 \$8,542,773 \$2,111,440 \$2,444,070 \$14,120,376 \$4,243,800 1.30 \$13,098,282 \$5,265,894	1.30	\$13,098,282	\$5,265,894	1.40

Witnesses: R. Idenouye S. Moffat

F. Oliver Glasford

B. Ott

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5. Enbridge has used the information generated through its TRC-Plus and PAC analysis as an important input in its overall portfolio design. The Company's Multi-Year DSM Plan seeks to balance cost-effectiveness alongside the Board's guiding principles and key priorities, many of which drive important activities which are less cost-effective than Enbridge's past results. The Company believes that this balance has been appropriately struck.

Witnesses: R. Idenouye

S. Moffat

F. Oliver Glasford

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