

Total Cost for Electricity Service (Billions \$2017)

	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035
Generation ¹	13.3	13.3	13.6	13.7	13.3	13.4	13.4	13.7	13.7	13.8	13.8	13.8	13.5	13.3	12.9	12.8	12.5	12.1	11.7
Conservation ²	0.6	0.6	0.5	0.5	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
Transmission	1.6	1.6	1.6	1.7	1.7	1.7	1.7	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8
Distribution	3.8	3.8	3.9	3.9	4.0	4.0	4.1	4.1	4.2	4.2	4.2	4.3	4.3	4.4	4.4	4.4	4.5	4.5	4.5
Wholesale	0.8	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.6
Debt Retirement Charge	0.6	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Cost for Electricity Service	20.6	20.6	20.2	20.5	20.1	20.2	20.3	20.7	20.7	20.8	20.9	20.9	20.7	20.5	20.1	20.1	19.8	19.4	19.1

Notes:

¹ Generation costs include Industrial Electricity Incentive program costs

² Conservation costs include Energy Efficiency delivery cost and Aboriginal, Community, and Municipal Funds

Generation Cost By Resource (Real \$2017 Billions)																			
	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035
Nuclear	6.133	5.995	6.344	6.357	5.964	6.000	5.725	6.759	5.785	6.222	6.474	6.621	6.691	6.717	6.339	6.840	6.833	6.838	6.720
Natural Gas	1.882	1.834	1.874	1.927	1.993	2.021	2.146	1.943	2.234	2.049	2.036	1.946	1.823	1.712	1.764	1.670	1.709	1.782	1.852
Hydroelectric	1.984	2.011	1.955	1.956	1.936	1.917	1.898	1.895	1.879	1.864	1.850	1.840	1.817	1.787	1.771	1.765	1.748	1.735	1.722
Biomass	0.245	0.244	0.244	0.229	0.221	0.216	0.210	0.191	0.178	0.173	0.167	0.163	0.162	0.157	0.155	0.151	0.148	0.143	0.140
Solar	1.511	1.554	1.593	1.603	1.570	1.539	1.509	1.481	1.450	1.422	1.394	1.368	1.335	1.282	1.165	1.023	0.842	0.603	0.474
Wind	1.659	1.750	1.739	1.758	1.734	1.706	1.679	1.660	1.625	1.598	1.572	1.551	1.514	1.479	1.430	1.376	1.326	1.212	1.089
Storage (Phase I and II) ¹	0.013	0.030	0.030	0.029	0.029	0.029	0.029	0.029	0.029	0.029	0.029	0.028	0.028	0.028	0.028	0.027	0.027	0.027	0.027
Ontario Generation	13.427	13.418	13.779	13.859	13.447	13.428	13.195	13.958	13.181	13.357	13.522	13.517	13.370	13.162	12.650	12.853	12.632	12.339	12.023
Imports ²	0.300	0.302	0.243	0.304	0.370	0.421	0.638	0.311	0.935	0.780	0.689	0.675	0.542	0.628	0.688	0.572	0.541	0.411	0.444
Total Market Demand	13.727	13.720	14.022	14.163	13.816	13.849	13.832	14.269	14.116	14.137	14.212	14.192	13.911	13.790	13.338	13.425	13.173	12.750	12.467
Exports ²	0.485	0.528	0.538	0.541	0.557	0.551	0.460	0.529	0.405	0.367	0.379	0.422	0.404	0.467	0.434	0.569	0.614	0.672	0.711
Ontario Demand	13.242	13.192	13.484	13.622	13.259	13.299	13.372	13.740	13.711	13.771	13.832	13.771	13.507	13.323	12.904	12.856	12.558	12.079	11.756

Note:

¹ Phase I storage is recovered from customers in the wholesale uplift charges

² Imports and exports reflect those that take place due to economic opportunities that exist in the real time energy market and from Quebec per the 2016 Energy Sales and Energy Cycling Agreement.

Unit Cost for Generation by Resource (Real \$2017/MWh)

	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035
Nuclear	\$ 71	\$ 72	\$ 74	\$ 78	\$ 79	\$ 83	\$ 91	\$ 91	\$ 101	\$ 104	\$ 103	\$ 99	\$ 99	\$ 96	\$ 97	\$ 94	\$ 92	\$ 91	\$ 89
Natural Gas	\$ 179	\$ 166	\$ 163	\$ 158	\$ 144	\$ 135	\$ 109	\$ 123	\$ 106	\$ 110	\$ 110	\$ 115	\$ 100	\$ 95	\$ 89	\$ 91	\$ 89	\$ 86	\$ 83
Hydroelectric	\$ 54	\$ 54	\$ 52	\$ 52	\$ 52	\$ 51	\$ 51	\$ 50	\$ 50	\$ 50	\$ 49	\$ 49	\$ 48	\$ 48	\$ 47	\$ 47	\$ 47	\$ 46	\$ 46
Biomass	\$ 183	\$ 182	\$ 179	\$ 166	\$ 162	\$ 159	\$ 155	\$ 140	\$ 130	\$ 128	\$ 123	\$ 120	\$ 118	\$ 116	\$ 113	\$ 111	\$ 108	\$ 106	\$ 105
Solar	\$ 472	\$ 453	\$ 423	\$ 406	\$ 398	\$ 390	\$ 382	\$ 375	\$ 368	\$ 360	\$ 353	\$ 346	\$ 338	\$ 325	\$ 295	\$ 259	\$ 213	\$ 151	\$ 119
Wind	\$ 123	\$ 122	\$ 120	\$ 117	\$ 115	\$ 113	\$ 111	\$ 109	\$ 108	\$ 106	\$ 104	\$ 102	\$ 100	\$ 98	\$ 95	\$ 91	\$ 88	\$ 81	\$ 72
Storage (Phase I and II) ¹	\$ 978	\$ 817	\$ 788	\$ 813	\$ 848	\$ 846	\$ 859	\$ 843	\$ 838	\$ 839	\$ 835	\$ 862	\$ 850	\$ 827	\$ 820	\$ 814	\$ 818	\$ 813	\$ 797

Note:

¹ Phase I storage is recovered from customers in the wholesale uplift charges

Conservation Costs (Billions \$2017)

	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035
Energy Efficiency delivery cost	\$ 0.551	\$ 0.599	\$ 0.468	\$ 0.487	\$ 0.393	\$ 0.393	\$ 0.393	\$ 0.393	\$ 0.393	\$ 0.393	\$ 0.393	\$ 0.393	\$ 0.393	\$ 0.393	\$ 0.393	\$ 0.393	\$ 0.393	\$ 0.393	\$ 0.393
Funds ¹	\$ 0.010	\$ 0.010	\$ 0.010	\$ 0.010	\$ 0.010	\$ 0.010	\$ 0.010	\$ 0.010	\$ 0.010	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Total Conservation and Fund Costs	\$ 0.561	\$ 0.609	\$ 0.478	\$ 0.497	\$ 0.403	\$ 0.403	\$ 0.403	\$ 0.403	\$ 0.403	\$ 0.393	\$ 0.393	\$ 0.393	\$ 0.393	\$ 0.393	\$ 0.393	\$ 0.393	\$ 0.393	\$ 0.393	\$ 0.393

Note:

¹ Funds include costs for Aboriginal, Community, and Municipal Funds

Transmission Delivery Costs (Billions \$2017)

	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035
Base Transmission	\$1.589	\$1.638	\$1.638	\$1.638	\$1.638	\$1.638	\$1.638	\$1.638	\$1.638	\$1.638	\$1.638	\$1.638	\$1.638	\$1.638	\$1.638	\$1.638	\$1.638	\$1.638	\$1.638
Incremental Transmission	\$0.000	\$0.001	\$0.001	\$0.077	\$0.087	\$0.087	\$0.088	\$0.137	\$0.137	\$0.136	\$0.136	\$0.136	\$0.136	\$0.136	\$0.135	\$0.136	\$0.138	\$0.139	\$0.140
Total Transmission Costs	\$1.589	\$1.639	\$1.639	\$1.714	\$1.724	\$1.725	\$1.725	\$1.774	\$1.774	\$1.774	\$1.774	\$1.774	\$1.773	\$1.773	\$1.773	\$1.774	\$1.775	\$1.776	\$1.778

Distribution Delivery Costs (Billions \$2017)																				
	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	
Base Distribution	\$ 3.656	\$ 3.656	\$ 3.656	\$ 3.656	\$ 3.656	\$ 3.656	\$ 3.656	\$ 3.656	\$ 3.656	\$ 3.656	\$ 3.656	\$ 3.656	\$ 3.656	\$ 3.656	\$ 3.656	\$ 3.656	\$ 3.656	\$ 3.656	\$ 3.656	\$ 3.656
Incremental Distibution Cost due to Household Growth	\$ 0.115	\$ 0.173	\$ 0.229	\$ 0.285	\$ 0.338	\$ 0.385	\$ 0.430	\$ 0.471	\$ 0.511	\$ 0.550	\$ 0.587	\$ 0.625	\$ 0.662	\$ 0.698	\$ 0.735	\$ 0.770	\$ 0.804	\$ 0.836	\$ 0.866	
Incremental Low Income Energy Assistance Program	\$ 0.000	\$ 0.000	\$ 0.000	\$ 0.000	\$ 0.000	\$ 0.000	\$ 0.001	\$ 0.001	\$ 0.001	\$ 0.001	\$ 0.001	\$ 0.001	\$ 0.001	\$ 0.001	\$ 0.001	\$ 0.001	\$ 0.001	\$ 0.001	\$ 0.001	\$ 0.001
Total Distribution Costs	\$ 3.771	\$ 3.829	\$ 3.885	\$ 3.941	\$ 3.994	\$ 4.041	\$ 4.086	\$ 4.128	\$ 4.168	\$ 4.206	\$ 4.244	\$ 4.281	\$ 4.319	\$ 4.355	\$ 4.392	\$ 4.427	\$ 4.461	\$ 4.493	\$ 4.522	

Wholesale Market Service Costs (Billions \$2017)																			
	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035
Wholesale Market Services	\$0.490	\$0.462	\$0.473	\$0.476	\$0.469	\$0.469	\$0.471	\$0.477	\$0.476	\$0.478	\$0.479	\$0.478	\$0.472	\$0.468	\$0.460	\$0.459	\$0.452	\$0.442	\$0.419
Rural/Remote Settlement Rate	\$0.138	\$0.041	\$0.043	\$0.043	\$0.043	\$0.043	\$0.043	\$0.043	\$0.043	\$0.043	\$0.043	\$0.043	\$0.043	\$0.044	\$0.044	\$0.044	\$0.045	\$0.045	\$0.046
IESO Fee	\$0.162	\$0.168	\$0.168	\$0.168	\$0.168	\$0.168	\$0.168	\$0.168	\$0.168	\$0.168	\$0.168	\$0.168	\$0.168	\$0.168	\$0.168	\$0.168	\$0.168	\$0.168	\$0.168
Wholesale Market Charge Cost	\$0.789	\$0.672	\$0.684	\$0.687	\$0.680	\$0.680	\$0.682	\$0.688	\$0.687	\$0.689	\$0.690	\$0.689	\$0.684	\$0.680	\$0.672	\$0.671	\$0.665	\$0.656	\$0.633

Debt Retirement Charge (Billions \$2017)

[illegible]

Global Adjustment Costs (prior to Ontario Fair Hydro Plan) (Billions \$2017)																			
	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035
Global Adjustment																			
(includes conservation and IEI program)	\$ 10.1	\$ 9.9	\$ 10.4	\$ 10.0	\$ 8.9	\$ 8.6	\$ 7.8	\$ 8.6	\$ 7.6	\$ 8.3	\$ 8.3	\$ 8.3	\$ 7.9	\$ 7.3	\$ 6.4	\$ 6.2	\$ 5.4	\$ 4.5	\$ 3.3
Market Revenues (via HOEP)	\$ 3.8	\$ 3.9	\$ 3.7	\$ 4.2	\$ 4.8	\$ 5.2	\$ 6.1	\$ 5.5	\$ 6.5	\$ 5.9	\$ 5.9	\$ 5.9	\$ 6.0	\$ 6.4	\$ 6.9	\$ 7.0	\$ 7.5	\$ 8.0	\$ 8.8
Total Generation, Conservation (including																			
funds ¹) and IEI program costs	\$ 13.9	\$ 13.9	\$ 14.0	\$ 14.2	\$ 13.7	\$ 13.8	\$ 13.8	\$ 14.1	\$ 14.1	\$ 14.1	\$ 14.2	\$ 14.1	\$ 13.9	\$ 13.7	\$ 13.3	\$ 13.2	\$ 12.9	\$ 12.5	\$ 12.1

Note:

¹ Funds include costs for Aboriginal, Community, and Municipal Funds

Residential Monthly Bill Assuming 750 KWh Per Month Usage (prior to Ontario Fair Hydro Plan) (Nominal \$/Month)																																						
	2017		2018		2019		2020		2021		2022		2023		2024		2025		2026		2027		2028		2029		2030		2031		2032		2033		2034		2035	
Distribution	\$	37	\$	39	\$	39	\$	40	\$	41	\$	42	\$	43	\$	43	\$	44	\$	45	\$	46	\$	47	\$	48	\$	49	\$	50	\$	51	\$	52	\$	53	\$	54
Line Losses	\$	3	\$	3	\$	3	\$	3	\$	3	\$	3	\$	3	\$	3	\$	3	\$	4	\$	4	\$	4	\$	4	\$	4	\$	4	\$	4	\$	3	\$	3	\$	3
Transmission	\$	14	\$	14	\$	15	\$	16	\$	16	\$	17	\$	17	\$	18	\$	18	\$	18	\$	19	\$	19	\$	19	\$	19	\$	20	\$	20	\$	21	\$	21	\$	21
Regulated Charges (Wholesale Uplift and DRC)	\$	4	\$	4	\$	4	\$	4	\$	4	\$	4	\$	4	\$	4	\$	4	\$	4	\$	4	\$	5	\$	5	\$	5	\$	5	\$	5	\$	5	\$	5	\$	4
DRC	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-
Commodity (excludes line losses)	\$	78	\$	79	\$	82	\$	85	\$	83	\$	85	\$	86	\$	90	\$	91	\$	94	\$	96	\$	96	\$	96	\$	96	\$	93	\$	94	\$	92	\$	88	\$	86
Residential Bill Before Taxes	\$	135	\$	139	\$	143	\$	147	\$	147	\$	150	\$	153	\$	159	\$	161	\$	165	\$	169	\$	171	\$	171	\$	172	\$	171	\$	173	\$	173	\$	170	\$	169
HST	\$	18	\$	18	\$	19	\$	19	\$	19	\$	20	\$	20	\$	21	\$	21	\$	21	\$	22	\$	22	\$	22	\$	22	\$	22	\$	22	\$	22	\$	22	\$	22
Total Residential Bill After Taxes	\$	153	\$	157	\$	162	\$	167	\$	166	\$	170	\$	173	\$	179	\$	182	\$	187	\$	190	\$	193	\$	193	\$	194	\$	193	\$	195	\$	195	\$	192	\$	191

Note:
Residential Monthly Bill prior to Ontario Fair Hydro Plan (OFHP)
2017 Residential Bill is a forecast

Direct Connect Class A Customer Rate (assuming the Average GA Class A Rate) (Nominal \$/MWh)																				
	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	
Electricity (via HOEP Market Clearing Price)	\$ 26	\$ 28	\$ 27	\$ 31	\$ 36	\$ 40	\$ 48	\$ 44	\$ 53	\$ 49	\$ 50	\$ 51	\$ 53	\$ 57	\$ 62	\$ 64	\$ 69	\$ 74	\$ 82	
Electricity (via GA Class A Rate)	\$ 36	\$ 36	\$ 39	\$ 38	\$ 35	\$ 34	\$ 32	\$ 36	\$ 32	\$ 36	\$ 37	\$ 37	\$ 36	\$ 34	\$ 30	\$ 29	\$ 26	\$ 21	\$ 16	
Transmission	\$ 11	\$ 11	\$ 12	\$ 12	\$ 13	\$ 13	\$ 14	\$ 14	\$ 15	\$ 15	\$ 15	\$ 15	\$ 16	\$ 16	\$ 16	\$ 16	\$ 17	\$ 17	\$ 18	
Regulatory	\$ 5	\$ 5	\$ 5	\$ 5	\$ 5	\$ 5	\$ 5	\$ 6	\$ 6	\$ 6	\$ 6	\$ 6	\$ 6	\$ 6	\$ 6	\$ 6	\$ 6	\$ 6	\$ 6	
DRC	\$ 7	\$ 7	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
Total	\$ 86	\$ 88	\$ 83	\$ 87	\$ 90	\$ 93	\$ 99	\$ 100	\$ 106	\$ 106	\$ 108	\$ 109	\$ 110	\$ 112	\$ 114	\$ 116	\$ 118	\$ 119	\$ 122	

Note:

This is an illustrative industrial rate for a customer directly connected to the transmission system

No large industrial customer would obtain this rate as their GA unit rate would be based on the individual's customers usage during the 5 highest peak periods from the prior year

GA Class A rate is the average unit rate for all of Class A