

Residential Electricity Bill Outlooks

September 2016

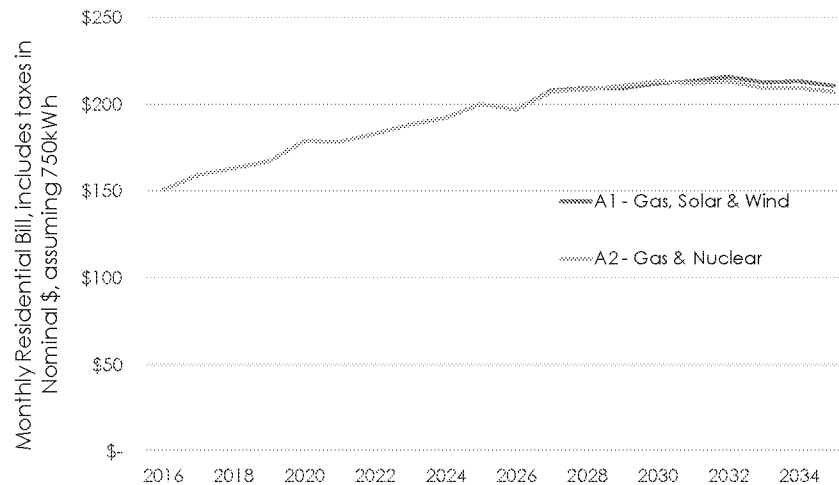


Overview

- The following slides provide an illustration of the outlook for residential bills across each of the demand outlooks considered in the Ontario Planning Outlook report
 - Report can be found on the IESO website:
<http://www.ieso.ca/Pages/Ontario's-Power-System/Ontario-Planning-Outlook/default.aspx>
 - Additional context and further information with respect to the underlying assumptions can be found in “Module 7: Electricity System Cost Outlook” at the link above

Average Residential Electricity Bill: Outlook A

- For Outlook A, the monthly residential bill assuming consumption of 750kWh/month will increase in nominal terms from \$150/month in 2016 to \$208-211/ month by 2035, an annual average increase of 1.7% per year.
- The peak residential monthly bill occurs in 2032 with a monthly bill of \$213-216/ month in that year.

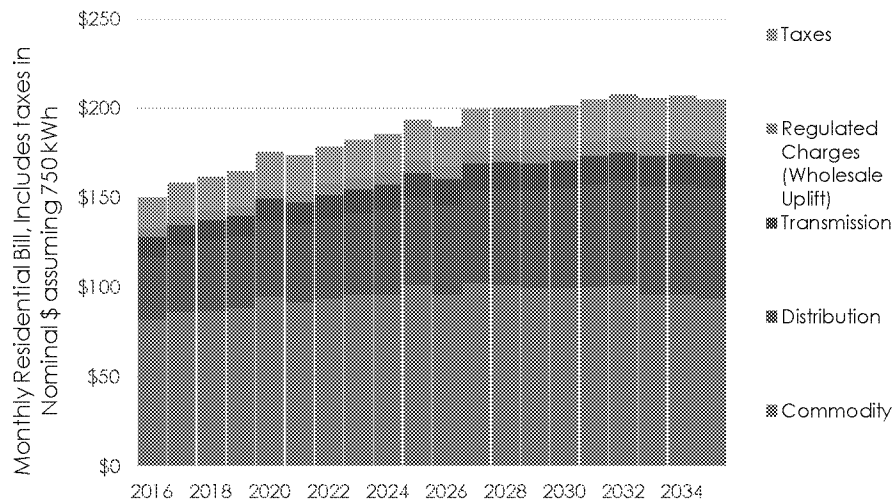


Average Residential Electricity Bill: Outlook A

Average Monthly Residential Bill, Nominal \$	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
A1 - Gas, Solar & Wind	\$151	\$159	\$163	\$167	\$179	\$178	\$183	\$188	\$192	\$200
A2 - Gas & Nuclear	\$151	\$159	\$163	\$167	\$179	\$178	\$183	\$188	\$192	\$200
	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035
A1 - Gas, Solar & Wind	\$197	\$208	\$210	\$210	\$212	\$214	\$216	\$212	\$213	\$211
A2 - Gas & Nuclear	\$197	\$208	\$209	\$211	\$213	\$212	\$213	\$209	\$210	\$208

Average Residential Electricity Bill: Outlook B

- The monthly residential bill assuming consumption of 750kWh/month will increase in nominal terms from \$150/month in 2016 to \$205/month by 2035, an annual average increase of 1.6% per year.
- The peak residential monthly bill occurs in 2032 with a monthly bill of \$208/month in that year.



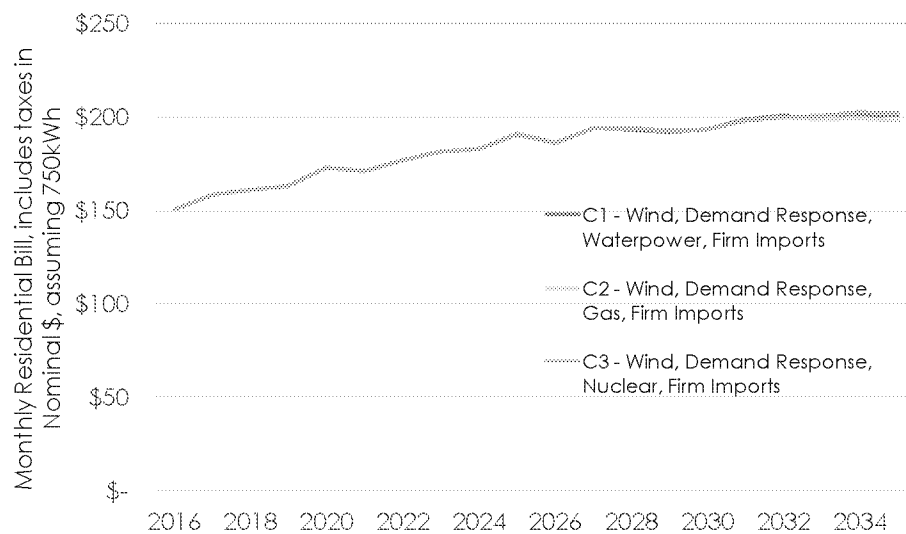
Note: EB-2012-0410 proposing changes to residential distribution rates, transitioning from a mixed fixed/volumetric charge to a pure fixed charge. This change is not assumed in the above analysis

Average Residential Electricity Bill: Outlook B

Average Monthly Residential Bill, Nominal \$	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
Commodity	\$81	\$86	\$87	\$88	\$95	\$92	\$93	\$95	\$96	\$101
Distribution	\$36	\$37	\$39	\$40	\$42	\$44	\$45	\$46	\$48	\$49
Transmission	\$11	\$11	\$11	\$12	\$13	\$13	\$13	\$14	\$14	\$14
Regulated Charges (Wholesale Uplift)	\$5	\$5	\$6	\$6	\$6	\$6	\$6	\$6	\$7	\$7
Taxes	\$17	\$18	\$19	\$19	\$20	\$20	\$21	\$21	\$21	\$22
Total Bill	\$151	\$158	\$162	\$165	\$175	\$174	\$178	\$183	\$186	\$194
	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035
Commodity	\$96	\$103	\$102	\$100	\$99	\$100	\$101	\$96	\$96	\$93
Distribution	\$51	\$52	\$53	\$55	\$56	\$58	\$59	\$60	\$61	\$62
Transmission	\$14	\$15	\$15	\$15	\$16	\$16	\$16	\$17	\$17	\$18
Regulated Charges (Wholesale Uplift)	\$7	\$7	\$7	\$7	\$8	\$8	\$8	\$8	\$8	\$9
Taxes	\$22	\$23	\$23	\$23	\$23	\$24	\$24	\$24	\$24	\$24
Total Bill	\$190	\$199	\$200	\$200	\$202	\$205	\$208	\$205	\$207	\$205

Average Residential Electricity Bill: Outlook C

- For Outlook C, the monthly residential bill assuming consumption of 750kWh/month will increase in nominal terms from \$150/month in 2016 to \$198-202/ month by 2035, an annual average increase of 1.4-1.5% per year.

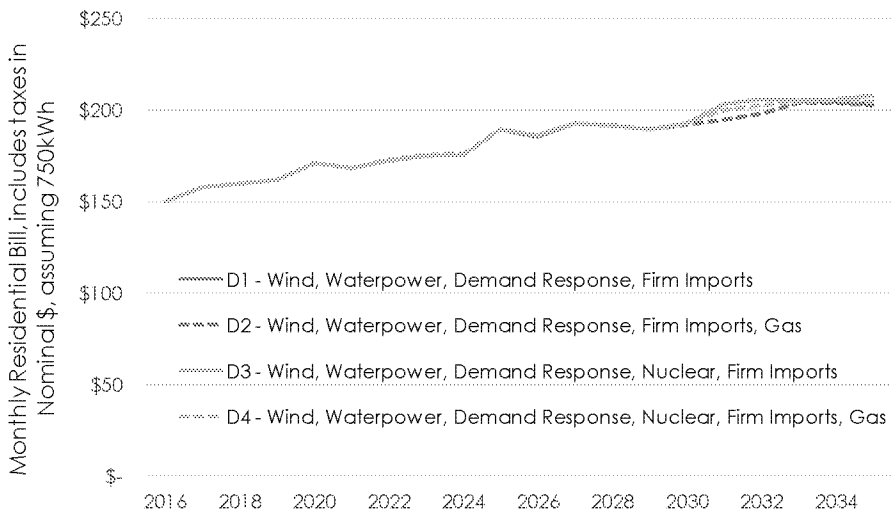


Average Residential Electricity Bill: Outlook C

Average Monthly Residential Bill, Nominal \$	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
C1 - Wind, Waterpower, Demand Response, Firm Imports	\$151	\$158	\$161	\$163	\$173	\$171	\$177	\$181	\$183	\$191
C2 - Wind, Demand Response, Firm Imports, Gas	\$151	\$158	\$161	\$163	\$173	\$171	\$177	\$181	\$183	\$191
C3 - Wind, Demand Response, Nuclear, Firm Imports	\$150	\$158	\$161	\$163	\$173	\$171	\$177	\$181	\$183	\$191
	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035
C1 - Wind, Waterpower, Demand Response, Firm Imports	\$186	\$194	\$194	\$192	\$193	\$199	\$201	\$199	\$201	\$201
C2 - Wind, Demand Response, Firm Imports, Gas	\$186	\$194	\$194	\$192	\$193	\$198	\$200	\$199	\$199	\$198
C3 - Wind, Demand Response, Nuclear, Firm Imports	\$186	\$194	\$194	\$192	\$193	\$198	\$200	\$200	\$202	\$202

Average Residential Electricity Bill: Outlook D

- The Outlook D monthly residential bill rates, for those households using an average of 750 kWh per month, rise from \$150 per month in 2016 to \$203-208 per month by 2035, an average increase of 1.5-1.6%/year.



Average Residential Electricity Bill: Outlook D

Average Monthly Residential Bill, Nominal \$	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
D1 - Wind, Waterpower, Demand Response, Firm Imports	\$150	\$158	\$160	\$162	\$171	\$168	\$172	\$175	\$176	\$189
D2 - Wind, Waterpower, Demand Response, Firm Imports, Gas	\$150	\$158	\$160	\$162	\$171	\$168	\$172	\$175	\$176	\$190
D3 - Wind, Waterpower, Demand Response, Nuclear, Firm Imports	\$150	\$158	\$160	\$162	\$171	\$168	\$172	\$175	\$176	\$190
D4 - Wind, Waterpower, Demand Response, Nuclear, Firm Imports, Gas	\$150	\$158	\$160	\$162	\$171	\$168	\$173	\$176	\$177	\$190
	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035
D1 - Wind, Waterpower, Demand Response, Firm Imports	\$186	\$193	\$192	\$190	\$193	\$204	\$206	\$205	\$205	\$204
D2 - Wind, Waterpower, Demand Response, Firm Imports, Gas	\$186	\$193	\$192	\$190	\$193	\$195	\$198	\$204	\$204	\$203
D3 - Wind, Waterpower, Demand Response, Nuclear, Firm Imports	\$186	\$193	\$192	\$190	\$193	\$204	\$206	\$205	\$206	\$208
D4 - Wind, Waterpower, Demand Response, Nuclear, Firm Imports, Gas	\$186	\$193	\$192	\$190	\$193	\$200	\$203	\$205	\$206	\$205