

Rate Mitigation Plan – GA Smoothing Options

Working Draft

February 2017

CONFIDENTIAL DRAFT

1a. Residential Bills Lowered 25% (with Tax-Base Funded 8% Rebate and Social Programs)

- Total bill below is based on a revised IESO forecast. See footnotes for more information.

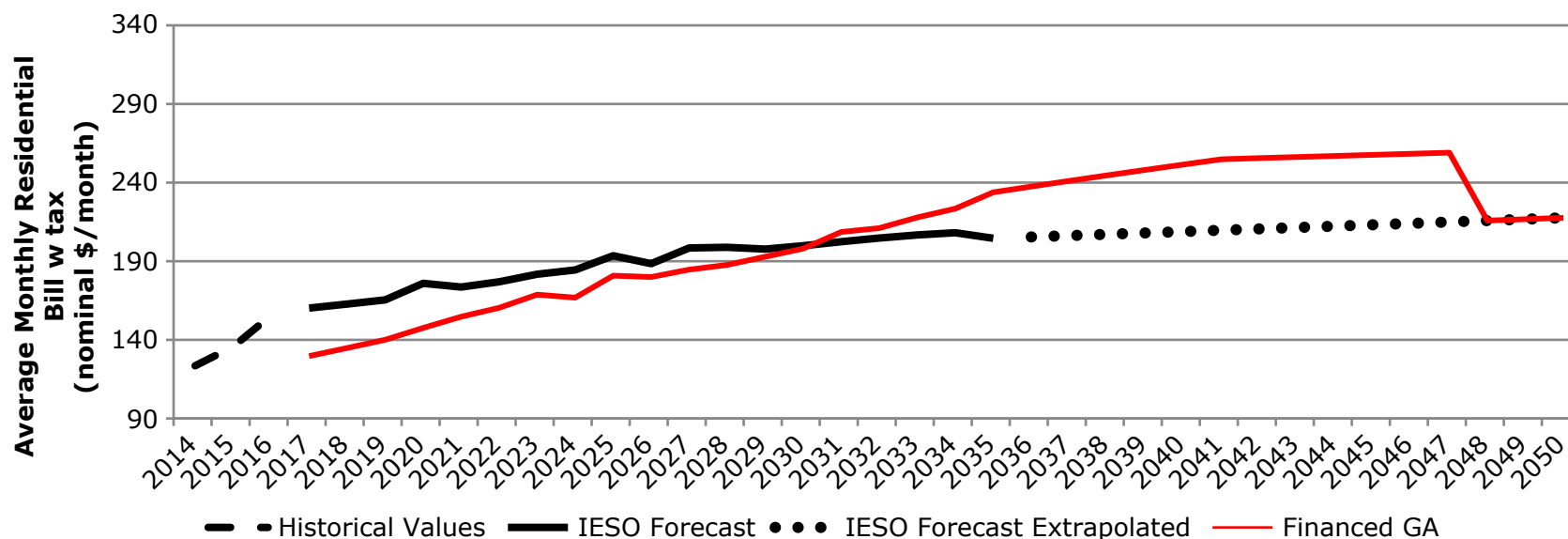
Residential (\$/month)	Actual 2016	2017	2018	2019	2020
Total Bill (includes HST)	163	172	175	178	189
Total Bill (excludes HST)	145	153	155	158	168
Impact of GA Smoothing		-27	-25	-22	-25
Impact of Tax-Basing Social Programs		-2	-2	-2	-3
Subtotal		123	128	133	140
8% rebate		-10	-10	-11	-11
HST		16	17	17	18
Revised Bill (includes HST)	163	129	134	139	147
Change from Forecast		-25%	-23%	-22%	-22%

Average Class A Consumer (\$/MWh)	Actual 2016	2017	2018	2019	2020
Total (excludes HST)	90	91	93	88	95
Impact of GA Smoothing		-22	-20	-19	-21
Impact of Tax-Basing Social Programs		-3	-3	-3	-3
Revised Total (excludes HST)	90	65	69	66	71
Change from Forecast		-28%	-26%	-25%	-25%

Fiscal Impact (\$M)	17-18	18-19	19-20	20-21
Tax-Basing Social Programs	362	409	450	485

Notes: Based on IESO's revised OPO forecast as of December 2016. Includes the cancellation of LRP II and EFW, expansion of ICI. Does not include smoothed OPG rates. Above residential bill is based on a 750 kWh per month Toronto Hydro customer. "Social programs" refers to existing RRRP and OESP. While initiatives would take several months to implement, the above estimate for 2017 reflects a full-year impact. The 8% rebate above represents savings compared to status quo due to the reduction in the sub-total from GA financing.

1a. Residential Bills Lowered 25% – Impact of GA Smoothing



	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044	2045	2046	2047	2048
Average Monthly Residential Bill Impact pre-tax (\$/month)	-27	-25	-22	-25	-17	-15	-11	-16	-11	-8	-12	-10	-4	-2	5	6	10	14	26	28	31	33	35	38	40	40	40	40	39	39	39	0
Total Accumulated Debt (\$ billion)	5	9	14	19	23	27	30	34	38	41	46	50	53	56	58	60	61	62	60	58	55	52	48	43	38	33	27	20	14	7	0	0
Total Change in Accumulated Debt (\$ billion)	5	5	4	5	4	4	3	4	4	3	4	4	3	3	2	2	1	1	-2	-2	-3	-3	-4	-5	-5	-6	-6	-6	-6	-7	-7	0

Notes: Assumes 30 year financing period and a nominal interest rate of 5.12% per year (compounded annually). Ratepayer GA payments increase annually beyond 2017 at inflation with GA over-payments capped at \$7.5 billion above the true cost of GA in any given year.

1b. Residential Bills Lowered 25% (with Tax-Base Funded 15% Rebate)

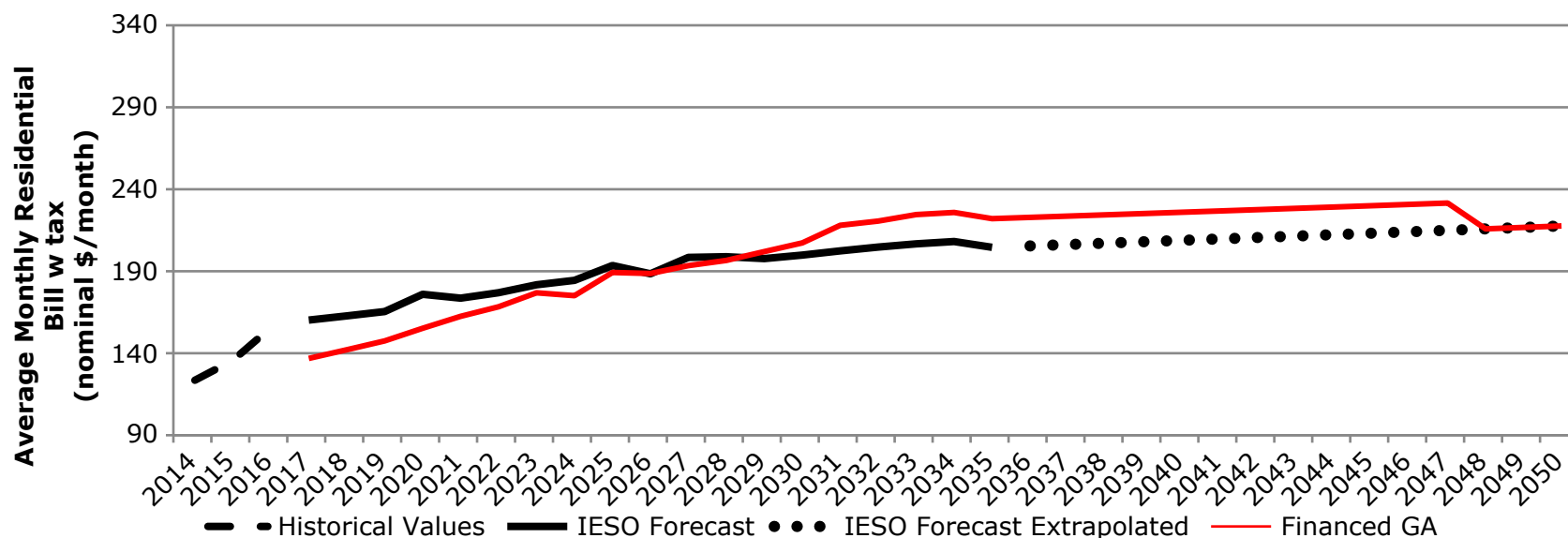
- Total bill below is based on a revised IESO forecast and is adjusted by the Ministry to reflect the proposed expansion of RRRP and OESP. See footnotes for more information.

Residential (\$/month)	Actual 2016	2017	2018	2019	2020
Social Programs Expansion		0.5	0.7	0.9	1.1
Total Bill (includes HST)	163	173	176	179	191
Total Bill (excludes HST)	145	153	156	158	169
Impact of GA Smoothing		-21	-18	-16	-18
Subtotal		132	137	143	150
15% rebate		-20	-21	-21	-23
HST		17	18	19	20
Revised Bill (includes HST)		130	135	140	147
Change from Forecast		-25%	-23%	-22%	-23%

Average Class A Consumer (\$/MWh)	Actual 2016	2017	2018	2019	2020
Social Programs Expansion		0.7	1.0	1.3	1.4
Total (excludes HST)	90	92	94	89	96
Impact of GA Smoothing		-17	-15	-13	-15
Revised Total (excludes HST)		74	79	76	81
Change from Forecast		-19%	-16%	-15%	-16%

Notes: Based on IESO's revised OPO forecast as of December 2016 as adjusted by the Ministry to include the cost of RRRP and OESP expansion. Includes the cancellation of LRP II and EFW, expansion of ICI. Does not include smoothed OPG rates. Above residential bill is based on a 750 kWh per month Toronto Hydro customer. "Social programs" refers to existing RRRP and OESP. While initiatives would take several months to implement, the above estimate for 2017 reflects a full-year impact. The 15% rebate above represents an incremental fiscal impact compared to status quo.

1b. Residential Bills Lowered 25% – Impact of GA Smoothing



	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044	2045	2046	2047	2048
Average Monthly Residential Bill Impact pre-tax (\$/month)	-21	-18	-16	-18	-10	-8	-4	-8	-4	0	-4	-2	4	7	14	14	16	16	15	15	15	15	15	15	15	15	15	15	15	15	15	0
Total Accumulated Debt (\$ billion)	4	7	10	14	16	19	20	23	25	26	28	30	31	31	30	29	28	27	25	23	22	20	18	16	14	12	10	8	5	3	0	0
Total Change in Accumulated Debt (\$ billion)	4	3	3	4	2	2	2	3	2	1	2	2	1	0	-1	-1	-1	-1	-1	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-3	-3	0

Notes: Assumes 30 year financing period and a nominal interest rate of 5.12% per year (compounded annually). Ratepayer GA payments increase annually beyond 2017 at inflation with a limit of \$2.8 billion above the true cost of GA in any given year.

2a. Residential Bills Lowered 33% (with Tax-Base Funded 8% Rebate and Social Programs)

- Total bill below is based on a revised IESO forecast. See footnotes for more information.

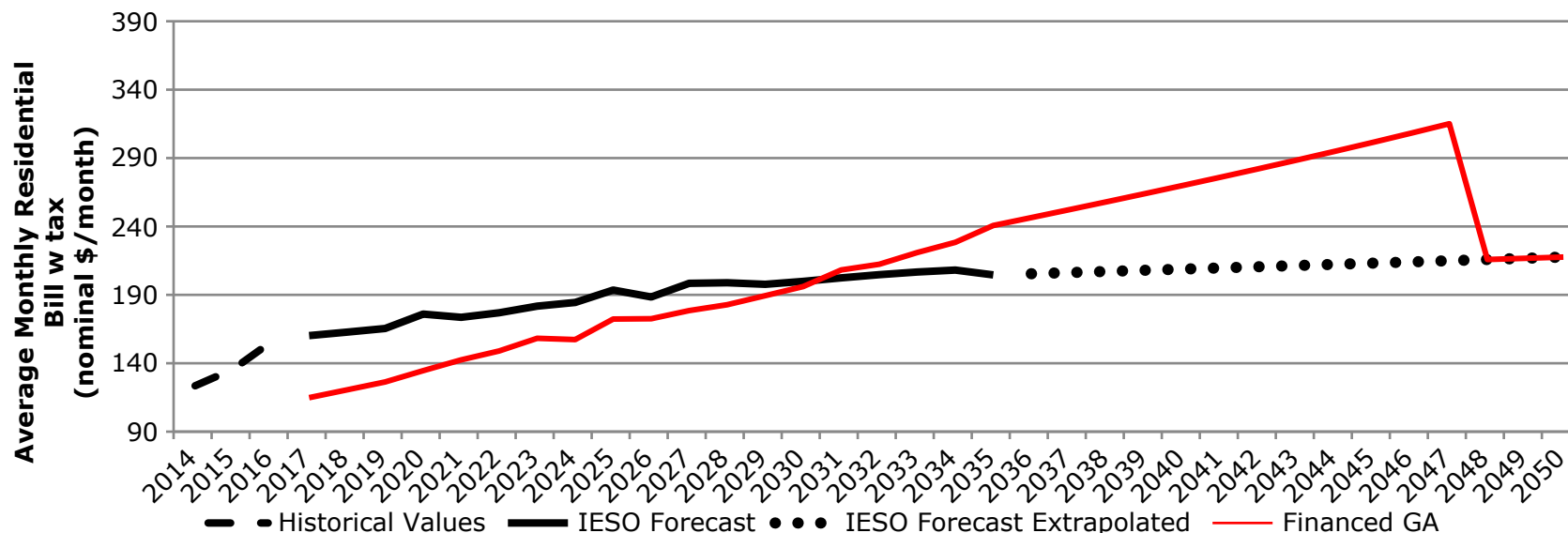
Residential (\$/month)	Actual 2016	2017	2018	2019	2020
Total Bill (includes HST)	163	172	175	178	189
Total Bill (excludes HST)	145	153	155	158	168
Impact of GA Smoothing		-40	-37	-35	-37
Impact of Tax-Basing Social Programs		-2	-2	-2	-3
Subtotal		110	115	120	128
8% rebate		-9	-9	-10	-10
HST		14	15	16	17
Revised Bill (includes HST)		116	121	126	135
Change from Forecast		-33%	-31%	-29%	-29%

Average Class A Consumer (\$/MWh)	Actual 2016	2017	2018	2019	2020
Total (excludes HST)	90	91	93	88	95
Impact of GA Smoothing		-33	-31	-29	-30
Impact of Tax-Basing Social Programs		-3	-3	-3	-3
Revised Total (excludes HST)	90	54	59	56	61
Change from Forecast		-40%	-37%	-36%	-35%

Fiscal Impact (\$M)	17-18	18-19	19-20	20-21
Tax-Basing Social Programs	362	409	450	485

Notes: Based on IESO's revised OPO forecast as of December 2016. Includes the cancellation of LRP II and EFW, expansion of ICI. Does not include smoothed OPG rates. Above residential bill is based on a 750 kWh per month Toronto Hydro customer. "Social programs" refers to existing RRRP and OESP. While initiatives would take several months to implement, the above estimate for 2017 reflects a full-year impact. The 8% rebate above represents savings compared to status quo due to the reduction in the sub-total from GA financing.

2a: Residential Bills Lowered 33% – Impact of GA Smoothing



	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044	2045	2046	2047	2048
Average Monthly Residential Bill Impact pre-tax (\$/month)	-40	-37	-35	-37	-28	-25	-21	-24	-19	-14	-18	-14	-7	-3	5	7	13	18	32	36	41	45	50	54	59	63	68	73	78	83	89	0
Total Accumulated Debt (\$ billion)	7	14	21	28	35	41	47	53	59	65	71	77	83	88	91	95	97	99	98	96	94	90	85	80	73	64	55	44	31	16	0	0
Total Change in Accumulated Debt (\$ billion)	7	7	7	8	6	6	6	7	6	6	6	6	5	5	4	3	3	2	-1	-2	-3	-4	-5	-6	-7	-8	-10	-11	-13	-14	-16	0

Notes: Assumes 30 year financing period and a nominal interest rate of 5.12% per year (compounded annually). Ratepayer GA payments increase annually beyond 2017 at 2.7 percentage points above inflation with no limit on GA over-payments.

2b. Residential Bills Lowered 33% (with Tax-Based Funded 15% Rebate)

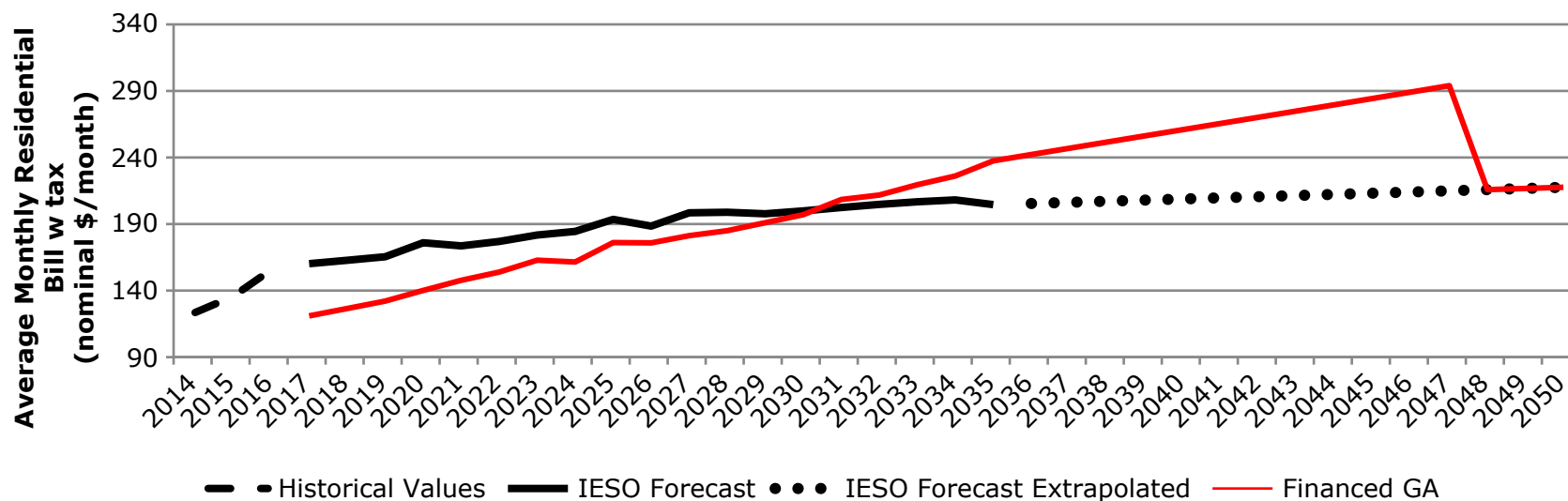
- Total bill below is based on a revised IESO forecast. See footnotes for more information.

Residential (\$/month)	Actual 2016	2017	2018	2019	2020
Total Bill (includes HST)	163	172	175	178	189
Total Bill (excludes HST)	145	153	155	158	168
Impact of GA Smoothing		-35	-32	-29	-32
Subtotal		118	123	128	136
15% rebate		-18	-18	-19	-20
HST		15	16	17	18
Revised Bill (includes HST)		116	120	125	133
Change from Forecast		-33%	-31%	-30%	-30%

Average Class A Consumer (\$/MWh)	Actual 2016	2017	2018	2019	2020
Total (excludes HST)	90	91	93	88	95
Impact of GA Smoothing		-29	-27	-24	-26
Revised Total (excludes HST)	90	62	66	63	69
Change from Forecast		-32%	-29%	-28%	-28%

Notes: Based on IESO's revised OPO forecast as of December 2016. Includes the cancellation of LRP II and EFW, expansion of ICI. Does not include smoothed OPG rates. Above residential bill is based on a 750 kWh per month Toronto Hydro customer. "Social programs" refers to existing RRRP and OESP. While initiatives would take several months to implement, the above estimate for 2017 reflects a full-year impact. The 15% rebate above represents an incremental fiscal impact compared to status quo.

2b. Residential Bills Lowered 33% – Impact of GA Smoothing



— • Historical Values — IESO Forecast • • • IESO Forecast Extrapolated — Financed GA

	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044	2045	2046	2047	2048
Average Monthly Residential Bill Impact pre-tax (\$/month)	-35	-32	-29	-32	-23	-20	-17	-20	-15	-11	-15	-12	-6	-3	5	6	11	16	29	33	36	39	43	46	49	53	56	60	63	66	70	0
Total Accumulated Debt (\$ billion)	6	12	18	25	30	35	40	45	50	55	60	66	70	74	77	80	82	83	82	80	78	74	70	65	59	52	44	35	24	13	0	0
Total Change in Accumulated Debt (\$ billion)	6	6	6	7	5	5	5	6	5	5	5	5	4	4	3	3	2	1	-1	-2	-3	-3	-4	-5	-6	-7	-8	-9	-10	-12	-13	0

Notes: Assumes 30 year financing period and a nominal interest rate of 5.12% per year (compounded annually). Ratepayer GA payments increase annually beyond 2017 at 1.4 percentage points above inflation with no limit on GA over-payments.

3. Residential Bills Lowered XX% (with Tax-Base Funded 15% Rebate and Social Programs)

- This option includes amortizing all 20-year generation contracts for an additional 10 years, as well as amortizing conservation costs over 15 years.

Notes: Based on IESO's revised OPO forecast as of December 2016. Includes the cancellation of LRP II and EFW, expansion of ICI. Does not include smoothed OPG rates. Above residential bill is based on a 750 kWh per month Toronto Hydro customer. "Social programs" refers to existing RRRP and OESP. While initiatives would take several months to implement, the above estimate for 2017 reflects a full-year impact. The 15% rebate above represents an incremental fiscal impact compared to status quo. **Contract costs are based on Ministry analysis, actual costs would need to be provided by IESO.**