

ATTACHMENT 3 LOAD FORECAST

1. LOAD FORECAST

Tables 1 and 2 present the revenue load forecast including the baseline forecast, electrification, large load requests and eDSM assumptions. Table 1 below provides Hydro Ottawa’s sales forecast by MWh for 2026-2030.

Table 1 – 2026-2030 Revenue Energy Sales Forecast by Customer Class (MWh)¹

	2026	2027	2028	2029	2030
Residential	2,589,318	2,623,212	2,664,821	2,689,491	2,727,104
General Service < 50 kW	723,247	724,386	728,370	727,992	728,893
General Service 50 to 1,000 kW	2,495,566	2,500,336	2,525,831	2,555,016	2,599,817
General Service 1,000 to 1,499 kW	372,053	363,574	359,057	363,225	369,612
General Service 1,500 to 4,999 kW	734,588	731,154	733,419	737,132	745,007
Large Use	544,196	568,792	620,013	680,679	724,495
Street Lighting	21,962	22,060	22,158	22,257	22,355
Unmetered Scattered Load	14,392	14,472	14,552	14,633	14,713
Sentinel Lighting	41	40	39	38	38
TOTAL MWh SALES	7,495,363	7,548,026	7,668,260	7,790,463	7,932,034

Table 2 below provides Hydro Ottawa’s revenue demand forecast by kW for 2026-2030.

¹ This forecast does not include the Dry Core Transformer Charge.

Table 2 – 2026-2030 Demand Sales Forecast by Customer Class (kW)

	2026	2027	2028	2029	2030
General Service 50 to 1,000 kW	6,286,426	6,293,482	6,345,743	6,399,740	6,486,680
General Service 1,000 to 1,499 kW	788,681	771,965	763,825	770,166	780,465
General Service 1,500 to 4,999 kW	1,636,543	1,626,911	1,628,402	1,630,823	1,641,013
Large Use	963,359	1,032,277	1,170,218	1,350,668	1,472,628
Street Lighting	61,129	61,402	61,676	61,949	62,184
Sentinel Lighting	120	114	108	108	108
Standby Power	44,837	44,475	44,248	43,751	43,353
TOTAL KW DEMAND SALES	9,781,095	9,830,626	10,014,220	10,257,205	10,486,431

2. CUSTOMER AND CONNECTION FORECAST

Tables 3 and 4 below provide Hydro Ottawa’s monthly average number of customers and connections that are forecasted for the 2026-2030 period. The customer forecast has been derived based on historical figures up to June 2025, future population growth assumption of 1.2%, and adjustments for customers reclassifying as result of large load electrification.

Table 3 – 2026-2030 Monthly Average Number of Customers by Class

	2026	2027	2028	2029	2030
Residential	349,394	353,827	358,323	362,887	367,517
General Service < 50 kW	25,939	26,096	26,254	26,415	26,578
General Service 50 to 1,000 kW	3,076	3,076	3,076	3,076	3,076
General Service 1,000 to 1,499 kW	90	91	90	90	91
General Service 1,500 to 4,999 kW	80	79	79	79	79
Large Use	11	12	13	14	14
Standby Power	6	6	6	6	6
TOTAL CUSTOMERS	378,596	383,187	387,841	392,567	397,361

Table 4 – 2026-2030 Monthly Average Number of Connections by Customer Class

	2026	2027	2028	2029	2030
Street Lighting	65,686	66,596	67,505	68,415	69,324
Unmetered Scattered Load	4,247	4,366	4,485	4,604	4,724
Sentinel Lighting	47	46	45	44	43
TOTAL CONNECTIONS	69,980	71,008	72,035	73,063	74,091

3. BASELINE FORECAST

Tables 5 and 6 include the baseline revenue load forecast amounts for 2026-2030. The baseline forecast is derived based on historical sales figures (mWh and kW) up to October 2024. The baseline model also considers factors including historical weather patterns, economic trends, population growth, 50% of the proposed COVID variable and end-use saturation and efficiency trends.

**Table 5 - 2026-2030 Revenue Baseline Load Energy Sales Forecast by Customer Class
(MWh)**

	2026	2027	2028	2029	2030
Residential	2,547,092	2,561,824	2,581,726	2,581,976	2,592,456
General Service < 50 kW	721,975	722,537	725,868	724,754	724,838
General Service 50 to 1,000 kW	2,489,159	2,483,005	2,484,519	2,474,472	2,467,694
General Service 1,000 to 1,499 kW	371,095	369,569	369,515	367,847	366,575
General Service 1,500 to 4,999 kW	741,190	734,784	730,287	722,911	716,291
Large Use	505,675	500,814	497,436	490,548	485,082
Street Lighting	21,962	22,060	22,158	22,257	22,355
Unmetered Scattered Load	14,392	14,472	14,552	14,633	14,713
Sentinel Lighting	41	40	39	38	38
TOTAL MWh SALES	7,412,581	7,409,105	7,426,100	7,399,436	7,390,042

Table 6 - 2026-2030 Baseline Demand Sales Forecast by Customer Class (kW)

	2026	2027	2028	2029	2030
General Service 50 to 1,000 kW	6,272,186	6,256,814	6,260,595	6,235,499	6,218,569
General Service 1,000 to 1,499 kW	786,833	783,527	783,408	779,794	777,039
General Service 1,500 to 4,999 kW	1,659,053	1,644,104	1,633,608	1,616,391	1,600,940
Large Use	843,724	835,104	829,113	816,896	807,203
Street Lighting	61,129	61,402	61,676	61,949	62,184
Sentinel Lighting	120	114	108	108	108
Standby Power	44,837	44,475	44,248	43,751	43,353
TOTAL KW	9,667,882	9,625,540	9,612,756	9,554,388	9,509,396

4. eDSM ADJUSTMENTS IN LOAD FORECAST

Table 7 below provides Hydro Ottawa's Load Forecast eDSM adjustments by MWh for savings achieved after 2025.

Table 7 – 2026-2030 Energy Sales eDSM Adjustments by Customer Class (MWh)

	2026	2027	2028	2029	2030
Residential	33,337	56,137	79,780	104,306	128,505
General Service < 50 kW	10,755	17,103	23,621	30,462	37,682
General Service 50 to 1,000 kW	38,370	64,644	90,827	117,858	145,851
General Service 1,000 to 1,499 kW	6,337	10,676	15,000	19,464	24,087
General Service 1,500 to 4,999 kW	10,389	16,369	22,515	28,854	35,409
Large Use	7,920	12,781	17,812	23,047	28,513
TOTAL MWh	107,107	177,709	249,555	323,992	400,048

Table 8 provides Hydro Ottawa’s load forecast eDSM adjustments by kW for 2026-2030.

Table 8 – 2026-2030 Demand Sales eDSM Adjustments by Customer Class (kW)

	2026	2027	2028	2029	2030
General Service 50 to 1,000 kW	95,842	161,470	226,872	294,391	364,314
General Service 1,000 to 1,499 kW	13,728	23,127	32,496	42,167	52,182
General Service 1,500 to 4,999 kW	24,247	38,202	52,547	67,343	82,641
Large Use	14,046	22,666	31,589	40,874	50,567
TOTAL KW	147,863	245,465	343,504	444,775	549,704

5. ELECTRIFICATION AND LARGE LOAD REQUESTS FORECAST

Hydro Ottawa's revenue load forecast includes electrification and large load requests based on future customer initiatives aimed at decarbonization and electrification, as well as anticipated commercial and residential transportation electrification. The electrification forecast also includes the agreed upon incremental electrification for General Service >50kW and Large Use customer classes.

Tables 9 provides the additional MWh electrification as described in the Settlement Agreement

Table 9 – 2026-2030 Additional Electrification Sales Forecast by Customer Class (MWh)

	2026	2027	2028	2029	2030
Residential	0	0	0	0	0
General Service < 50 kW	0	0	0	0	0
General Service 50 to 1,000 kW	3,340	12,871	35,274	72,731	122,338
General Service 1,000 to 1,499 kW	500	1,921	5,260	10,832	18,199
General Service 1,500 to 4,999 kW	1,007	3,833	10,429	21,332	35,619
Large Use	689	2,617	7,112	14,490	24,140
Street Lighting	0	0	0	0	0
Unmetered Scattered Load	0	0	0	0	0
Sentinel Lighting	0	0	0	0	0

TOTAL INCREMENTAL ELECTRIFICATION mWh	5,536	21,242	58,075	119,385	200,296
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Table 10 provides an additional KW electrification as a result of the additional kWh. This was achieved by assuming 50% was a result of increased EV electrification and 50% as a result of other commercial electrification. For the additional EV electrification the same EV load shapes that were used in the original evidence were utilized. For the other additional commercial electrification hourly profiles from the 2050 Decarbonization study not used for the Large Load electrification was utilized, specifically removing Federal facilities, public transportation, and hospitals.

Table 10 – 2026-2030 Additional Electrification-Demand Forecast by Customer Class (kW)

	2026	2027	2028	2029	2030
General Service 50 to 1,000 kW	6,609	25,590	70,176	144,899	243,928
General Service 1,000 to 1,499 kW	830	3,205	8,781	18,110	30,455
General Service 1,500 to 4,999 kW	1,763	6,738	18,338	37,540	62,698
Large Use	897	3,418	9,289	18,926	31,522
Street Lighting	0	0	0	0	0
Sentinel Lighting	0	0	0	0	0
Standby Power	0	0	0	0	0
TOTAL ADDITIONAL ELECTRIFICATION KW	10,099	38,951	106,584	219,475	368,603

Table 11 and 12 provide the proposed MWh and KW electrification related to Light-duty Electric Vehicles (LDEV).

Table 11 – 2026-2030 LDEV Sales Forecast by Customer Class (MWh)

	2026	2027	2028	2029	2030
Residential	42,226	61,388	83,095	107,515	134,648
General Service < 50 kW	1,272	1,849	2,502	3,238	4,055
General Service 50 to 1,000 kW	3,067	4,460	6,038	7,813	9,785
General Service 1,000 to 1,499 kW	458	665	899	1,163	1,455
General Service 1,500 to 4,999 kW	323	469	635	821	1,029
Large Use	100	145	196	254	318
Street Lighting	0	0	0	0	0
Unmetered Scattered Load	0	0	0	0	0
Sentinel Lighting	0	0	0	0	0
TOTAL EV mWh	47,446	68,976	93,365	120,804	151,290

Table 12 – 2026-2030 LDEV Demand Forecast by Customer Class (kW)

	2026	2027	2028	2029	2030
General Service 50 to 1,000 kW	7,631	11,078	14,972	19,342	24,183
General Service 1,000 to 1,499 kW	1,018	1,494	2,043	2,670	3,379
General Service 1,500 to 4,999 kW	753	1,094	1,481	1,917	2,400
Large Use	177	257	348	450	564
Street Lighting	0	0	0	0	0
Sentinel Lighting	0	0	0	0	0
Standby Power	0	0	0	0	0
TOTAL EV KW	9,579	13,923	18,844	24,379	30,526

Table 13 and 14 provide the proposed MWh and KW electrification related to Large Load requests.

Table 13 – 2026-2030 Large Load Sales Forecast by Customer Class (MWh)

	2026	2027	2028	2029	2030
Residential	0	0	0	0	0
General Service < 50 kW	0	0	0	0	0
General Service 50 to 1,000 kW	0	0	0	0	0
General Service 1,000 to 1,499 kW	0	(8,581)	(16,617)	(16,617)	(16,617)
General Service 1,500 to 4,999 kW	(7,932)	(7,932)	(7,932)	(7,932)	(7,932)
Large Use	37,732	65,216	115,269	175,387	214,955
Street Lighting	0	0	0	0	0
Unmetered Scattered Load	0	0	0	0	0
Sentinel Lighting	0	0	0	0	0
TOTAL LARGE LOAD mWh	29,800	48,703	90,720	150,838	190,406

Table 14 – 2026-2030 Large Load Demand Forecast by Customer Class (kW)

	2,026	2,027	2,028	2,029	2,030
General Service 50 to 1,000 kW	0	0	0	0	0
General Service 1,000 to 1,499 kW	0	(16,261)	(30,407)	(30,408)	(30,408)
General Service 1,500 to 4,999 kW	(25,026)	(25,025)	(25,025)	(25,025)	(25,025)
Large Use	118,561	193,498	331,468	514,396	633,339
Street Lighting	0	0	0	0	0
Sentinel Lighting	0	0	0	0	0
Standby Power	0	0	0	0	0
TOTAL Large Load KW	93,535	152,212	276,036	458,963	577,906