

ATTACHMENT 23

LOW VOLTAGE SERVICE RATES

Hydro Ottawa’s proposed LV charges for the 2021-2025 rate term, as well as the components that were used to calculate these charges, are set out in Tables 1 through 5 below.

The LV expense has been allocated to the customer classes based on the class percentage of Retail Transmission Connections dollars using 2020 rates. As shown in Tables 1 through 5 below, Hydro Ottawa continues to use the same methodology for allocation used in the 2006 Electricity Distribution Rate (“EDR”) Model.

Table 1 – 2021 Calculation of LV Charge

	2020 Retail Transmission Connection Rate	2021 Charge Determinant	Basis for Allocation (A*B)	Allocation	LV Expense Allocation	2021 Rate/ kWh or kW (E/B)
	A	B	C	D	E	F
Residential	\$0.0052	2,258,842,797	\$11,745,983	33.09%	\$112,677	\$0.00005
General Service < 50 kW	\$0.0050	708,638,919	\$3,543,195	9.98%	\$33,989	\$0.00005
General Service 50 to 1,499 kW	\$2.0474	6,871,921	\$14,069,570	39.64%	\$134,967	\$0.01964
General Service 1,500 to 4,999 kW	\$2.1882	1,537,380	\$3,364,095	9.48%	\$32,271	\$0.02099
Large Use > 5,000 kW	\$2.4642	1,055,426	\$2,600,780	7.33%	\$24,949	\$0.02364
Unmetered Scattered Load	\$0.0050	13,640,773	\$68,204	0.19%	\$654	\$0.00005
Sentinel Lighting	\$1.5211	132	\$201	0.00%	\$2	\$0.01459
Street Lighting	\$1.5528	66,556	\$103,348	0.29%	\$991	\$0.01490
TOTAL¹			\$35,495,375		\$340,502	

¹ Totals may not sum due to rounding.

Table 2 – 2022 Calculation of LV Charge

	2020 Retail Transmission Connection Rate	2022 Charge Determinant	Basis for Allocation (A*B)	Allocation	LV Expense Allocation	2022 Rate/ kWh or kW (E/B)
	A	B	C	D	E	F
Residential	\$0.0052	2,280,181,561	\$11,856,944	33.23%	\$115,286	\$0.00005
General Service < 50 kW	\$0.0050	710,221,989	\$3,551,110	9.95%	\$34,528	\$0.00005
General Service 50 to 1,499 kW	\$2.0474	6,898,741	\$14,124,481	39.58%	\$137,333	\$0.01991
General Service 1,500 to 4,999 kW	\$2.1882	1,545,513	\$3,381,891	9.48%	\$32,882	\$0.02128
Large Use > 5,000 kW	\$2.4642	1,054,605	\$2,598,758	7.28%	\$25,268	\$0.02396
Unmetered Scattered Load	\$0.0050	13,188,068	\$65,940	0.18%	\$641	\$0.00005
Sentinel Lighting	\$1.5211	132	\$201	0.00%	\$2	\$0.01479
Street Lighting	\$1.5528	66,152	\$102,720	0.29%	\$999	\$0.01510
TOTAL²			\$35,682,046		\$346,939	

² Totals may not sum due to rounding.

Table 3 – 2023 Calculation of LV Charge

	2020 Retail Transmission Connection Rate	2023 Charge Determinant	Basis for Allocation (A*B)	Allocation	LV Expense Allocation	2023 Rate/ kWh or kW (E/B)
	A	B	C	D	E	F
Residential	\$0.0052	2,305,786,350	\$11,990,089	33.39%	\$118,112	\$0.00005
General Service < 50 kW	\$0.0050	713,228,266	\$3,566,141	9.93%	\$35,129	\$0.00005
General Service 50 to 1,499 kW	\$2.0474	6,925,846	\$14,179,977	39.49%	\$139,684	\$0.02017
General Service 1,500 to 4,999 kW	\$2.1882	1,555,042	\$3,402,743	9.48%	\$33,520	\$0.02156
Large Use > 5,000 kW	\$2.4642	1,054,605	\$2,598,758	7.24%	\$25,600	\$0.02427
Unmetered Scattered Load	\$0.0050	12,736,766	\$63,684	0.18%	\$627	\$0.00005
Sentinel Lighting	\$1.5211	132	\$201	0.00%	\$2	\$0.01498
Street Lighting	\$1.5528	66,152	\$102,721	0.29%	\$1,012	\$0.01530
TOTAL³			\$35,904,314		\$353,687	

³ Totals may not sum due to rounding.

Table 4 – 2024 Calculation of LV Charge

	2020 Retail Transmission Connection Rate	2024 Charge Determinant	Basis for Allocation (A*B)	Allocation	LV Expense Allocation	2024 Rate/ kWh or kW (E/B)
	A	B	C	D	E	F
Residential	\$0.0052	2,339,674,470	\$12,166,307	33.59%	\$121,096	\$0.00005
General Service < 50 kW	\$0.0050	717,823,457	\$3,589,117	9.91%	\$35,724	\$0.00005
General Service 50 to 1,499 kW	\$2.0474	6,966,627	\$14,263,471	39.38%	\$141,970	\$0.02038
General Service 1,500 to 4,999 kW	\$2.1882	1,567,693	\$3,430,427	9.47%	\$34,144	\$0.02178
Large Use > 5,000 kW	\$2.4642	1,057,124	\$2,604,965	7.19%	\$25,928	\$0.02453
Unmetered Scattered Load	\$0.0050	12,285,464	\$61,427	0.17%	\$611	\$0.00005
Sentinel Lighting	\$1.5211	132	\$201	0.00%	\$2	\$0.01514
Street Lighting	\$1.5528	66,152	\$102,721	0.28%	\$1,022	\$0.01546
TOTAL⁴			\$36,218,636		\$360,497	

⁴ Totals may not sum due to rounding.

Table 5 – 2025 Calculation of LV Charge

	2020 Retail Transmission Connection Rate	2025 Charge Determinant	Basis for Allocation (A*B)	Allocation	LV Expense Allocation	2025 Rate/ kWh or kW (E/B)
	A	B	C	D	E	F
Residential	\$0.0052	2,359,683,529	\$12,270,354	33.74%	\$124,061	\$0.00005
General Service < 50 kW	\$0.0050	719,361,784	\$3,596,809	9.89%	\$36,366	\$0.00005
General Service 50 to 1,499 kW	\$2.0474	6,980,998	\$14,292,896	39.30%	\$144,510	\$0.02070
General Service 1,500 to 4,999 kW	\$2.1882	1,574,524	\$3,445,374	9.47%	\$34,835	\$0.02212
Large Use > 5,000 kW	\$2.4642	1,054,605	\$2,598,758	7.15%	\$26,275	\$0.02491
Unmetered Scattered Load	\$0.0050	11,834,162	\$59,171	0.16%	\$598	\$0.00005
Sentinel Lighting	\$1.5211	132	\$201	0.00%	\$2	\$0.01538
Street Lighting	\$1.5528	66,152	\$102,721	0.28%	\$1,039	\$0.01570
TOTAL⁵			\$36,366,283		\$367,685	

⁵ Totals may not sum due to rounding.