

**Niagara Mohawk Power Corporation dba National Grid**  
**PSC No. 214, SC2**  
**Proposed LED Offering Compared to Current HPS Charges**

Proposed LED Fixture							Current Fixture (to be replaced by new LED Fixture)								Current minus LED Annual Benefit/(Cost)			
			LED Annual Fixture Charge	LED Annual Volumetric Charge	LED Total Annual Charges					September 2015 Inventory Number	Current Annual Fixture Charge	Current Annual Volumetric Charge	Current Total Annual Charges					
Fixture Name (Watts)	Fixture Watts	Delivered Lumens	Annual kWh				Tariff	Fixture Name	Fixture Watts	Delivered Lumens	Annual kWh					Annual Fixture Charge	Annual Volumetric Charge	Total
LED Roadway A	30	3,248	129	\$87.29	\$17.62	\$104.91		HPS Roadway, 70w	86	3,886	359	39,680	\$ 61.64	\$ 49.05	\$ 110.69	\$ (25.65)	\$ 31.42	\$ 5.77
								HPS Roadway, 100w	118	6,365	492	81,592	\$ 61.64	\$ 67.22	\$ 128.86	\$ (25.65)	\$ 49.59	\$ 23.94
LED Roadway B	60	5,809	254	\$ 96.94	\$ 34.70	\$131.65		HPS Roadway, 100w	118	6,365	492	81,592	\$ 61.64	\$ 67.22	\$ 128.86	\$ (35.30)	\$ 32.52	\$ (2.79)
								HPS Roadway, 150w	173	10,500	721	33,867	\$ 62.80	\$ 98.50	\$ 161.30	\$ (34.14)	\$ 63.80	\$ 29.66
LED Roadway C	140	11,387	588	\$ 144.65	\$ 80.33	\$224.98		HPS Roadway, 250w	304	19,095	1,268	10,674	\$ 71.18	\$ 173.23	\$ 244.41	\$ (73.47)	\$ 92.90	\$ 19.43
LED Roadway D	275	23,003	1,151	\$ 179.73	\$ 157.25	\$336.98		HPS Roadway, 400w	470	33,500	1,960	6,941	\$ 71.18	\$ 267.77	\$ 338.95	\$ (108.55)	\$ 110.52	\$ 1.98

**NOTE:**

The HPS Roadway, 100 watt luminaire is compared to the LED Roadway A and LED Roadway B

Annual Volumetric Charge is calculated using the annual kWh per fixture times the sum of the distribution delivery charge, supply, ISAS, SBC, TRA, RPS, RSS, ESRM and LTC.

The Delivered Lumen values for the LEDs represent the average lumen values of the product samples used in the rate design methodology.