

Proposed LED Option - Energy Efficient Outdoor Lighting Rate EOL
 Illustrative Monthly Savings per Fixture under Proposed LED Option
 Based on Rates effective January 1, 2014, Including PSNH Default Energy Service

Conversion from Rate EOL HPS or MH Fixtures to LED Option

						Average Monthly Savings Per Fixture								
		Current	Assumed	Current	LED						Subtotal			
		Lamp	LED	Average	Average				Electricity	PSNH	Default	Total	%	
Light Type	Lumens	Wattage	Wattage**	Monthly	Monthly	Distribution***	Transmission	Stranded	System	Consumption	Delivery	Energy	Bill	Savings
				Bill*	Bill*			Cost	Benefits	Tax	Service	Service		
High Pressure Sodium	4,000	50	31	\$ 10.62	\$ 6.11	\$3.41	\$0.12	\$0.03	\$0.03	\$0.01	\$3.61	\$0.90	\$4.51	42%
	5,800	70	31	11.78	6.11	3.41	0.26	0.07	0.07	0.01	3.82	1.86	5.67	48%
	9,500	100	45	15.30	7.38	4.60	0.38	0.11	0.10	0.02	5.20	2.73	7.92	52%
	16,000	150	73	18.85	9.92	4.21	0.53	0.15	0.14	0.02	5.06	3.88	8.93	47%
	30,000	250	125	23.59	14.64	1.61	0.83	0.23	0.22	0.04	2.92	6.02	8.95	38%
	50,000	400	257	30.51	26.61	(4.63)	0.97	0.27	0.25	0.04	(3.10)	6.99	3.89	13%
Metal Halide	130,000	1,000	500	66.51	48.66	(6.44)	2.75	0.77	0.71	0.12	(2.09)	19.94	17.85	27%
	5,000	70	31	12.19	6.11	3.72	0.27	0.07	0.07	0.01	4.14	1.93	6.07	50%
	8,000	100	45	16.27	7.38	5.78	0.35	0.10	0.09	0.02	6.34	2.55	8.89	55%
	13,000	150	73	19.82	9.92	5.14	0.54	0.15	0.14	0.02	5.99	3.91	9.90	50%
	13,500	175	73	21.15	9.92	5.80	0.61	0.17	0.16	0.03	6.77	4.45	11.22	53%
	20,000	250	125	24.67	14.64	3.40	0.75	0.21	0.19	0.03	4.59	5.44	10.03	41%
	36,000	400	257	31.65	26.61	(2.83)	0.89	0.25	0.23	0.04	(1.42)	6.46	5.04	16%
	100,000	1,000	500	67.70	48.66	(4.57)	2.67	0.75	0.69	0.12	(0.34)	19.38	19.04	28%

Conversion from Rate OL HPS or MH Fixtures to LED Option

Conversion from Rate OL HPS or MH Fixtures to LED Option						Average Monthly Savings Per Fixture*									
		Current Lamp	Assumed LED	Current Average Monthly	LED Average Monthly						Subtotal				
Light Type	Lumens	Wattage	Wattage**	Bill*	Bill*	Distribution***	Transmission	Stranded Cost	System Benefits	Electricity Consumption Tax	PSNH Delivery Service	Default Energy Service	Total Bill	% Savings	
High Pressure Sodium	4,000	50	31	\$ 17.88	\$ 6.11	\$10.67	\$0.12	\$0.03	\$0.03	\$0.01	\$10.87	\$0.90	\$11.77	66%	
	5,800	70	31	19.04	6.11	10.67	0.26	0.07	0.07	0.01	11.08	1.86	12.93	68%	
	9,500	100	45	25.77	7.38	15.07	0.38	0.11	0.10	0.02	15.67	2.73	18.39	71%	
	16,000	150	73	36.86	9.92	22.22	0.53	0.15	0.14	0.02	23.07	3.88	26.94	73%	
	30,000	250	125	42.32	14.64	20.34	0.83	0.23	0.22	0.04	21.65	6.02	27.68	65%	
	50,000	400	257	49.23	26.61	14.09	0.97	0.27	0.25	0.04	15.62	6.99	22.61	46%	
	130,000	1,000	500	93.17	48.66	20.22	2.75	0.77	0.71	0.12	24.57	19.94	44.51	48%	
Metal Halide	5,000	70	31	19.81	6.11	11.34	0.27	0.07	0.07	0.01	11.76	1.93	13.69	69%	
	8,000	100	45	27.08	7.38	16.59	0.35	0.10	0.09	0.02	17.15	2.55	19.70	73%	
	13,000	150	73	38.12	9.92	23.44	0.54	0.15	0.14	0.02	24.29	3.91	28.20	74%	
	13,500	175	73	39.43	9.92	24.08	0.61	0.17	0.16	0.03	25.05	4.45	29.50	75%	
	20,000	250	125	42.75	14.64	21.48	0.75	0.21	0.19	0.03	22.67	5.44	28.11	66%	
	36,000	400	257	49.65	26.61	15.17	0.89	0.25	0.23	0.04	16.58	6.46	23.04	46%	
		100,000	1,000	500	90.91	48.66	18.64	2.67	0.75	0.69	0.12	22.87	19.38	42.25	46%

*Bills and savings will vary by month since billing kWh vary by month.

**Provided by FirstLine Associates to PSNH, January 2014. FirstLine has indicated that there is currently no LED equivalent for HPS and MH 1,000 watt lamps.

***Excluding maintenance, which will be billed on a per-fixture, per-visit basis.