



City & Borough of Sitka

# Electric Department

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## Energy Efficient Streetlight Pilot Project

### Project Update – April 2010

The fourth month of energy data has been collected and the project chart updated.

These fixtures are installed along Lincoln Street adjacent to the Crescent Harbor parking lot and are labeled A, B, C, & D. An additional magnetic induction type fixture was installed on March 10, 2010 at the corner of the Crescent Harbor parking lot exit onto Jeff Davis Street and has a yellow label E.

Fixture Label	A	B	C	D	E
Fixture Type	Magnetic Induction	LED – SL50	LED - DS42	High Pressure Sodium	Magnetic Induction
Fixture Cost (Each)	\$451	\$748	\$698	\$122	\$388
Manufacturers Projected Lamp Life (hrs)	100,000	50,000	100,000	15,000	100,000
Energy Usage – Dec 2009 (kWh)	46	57	40	92	n/a
Energy Usage – Jan 2010 (kWh)	46	61	40	96	n/a
Energy Usage – Feb 2010 (kWh)	29	49	30	77	n/a
Energy Usage – Mar 2010 (kWh)	40	46	30	65	22*
Cumulative Energy Cost Dec 09 – Mar 10	\$22.81	\$30.18	\$19.84	\$46.76	\$3.12*
Estimated Life Cycle Costs (23 yrs)	\$1,311.00	\$2,560.00	\$1,457.00	\$2,102.00	\$1,1173
Grant Funding = \$50,000 Total Fixtures Purchased	110	66	71	409	128
Estimated Annual Energy Savings compared to HPS (kWh)	44,321	17,965	31,481	-0-	55,767
Election Results (% of votes)	31%	16%	46%	7%	0

\* Partial month.

Issued by: Christopher Brewton, Utility Director, April 2, 2010