

LED Streetlight Conversion

Funding Improvement with Savings – August 2023



ameresco.com

Sweet Home Streetlight Project



Currently the City of Sweet Home utilizes streetlights owned by Pacific Power Lights.

These lights are a mix of high and medium-pressure sodium which use 60-70% more energy than LED equivalent luminaires.

This project takes advantage of a rate-based savings to upgrade the lights to LED and improve the quality of light on the city streets.

Project Highlights

- Convert 881 PPL-owned streetlights to LED cobra head luminaires
- New LEDs save the City:
 - 558,933 KWh in electricity
 - \$40,691 in Year 1 (increases annually)
- New LED lights will improve useful lighting of the City's streets and reduce sky glow versus the current HPS/MPS lights.
- Construction timeline: ~4–5 months
 - 6–8-week equipment lead time
 - 2–3-month replacement timeframe

Green Impact

Financial Benefits

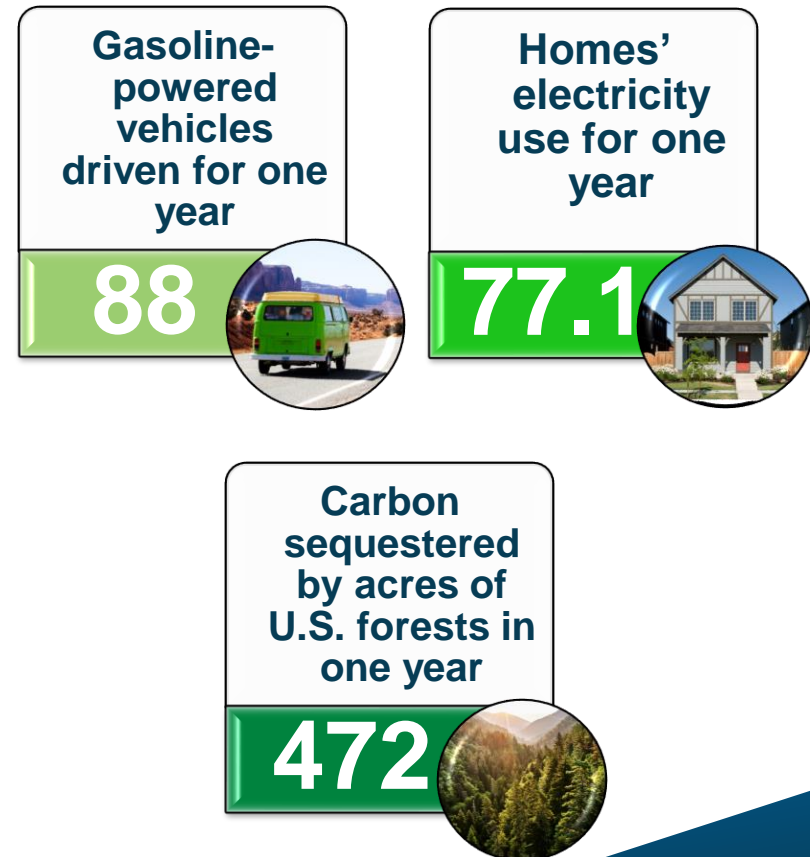
First Year Savings = \$40,691

(increasing annually with utility rates)

**Total Net
Savings Over
20 Years...
\$546,620**

Environmental Benefits

Saving 558,933 kWh annually equals...



Example: City of Medford Before and After



Before LED Replacement Project

Note sky glow reduction

After LED Replacement Project



Energy-as-a-Service and PacifiCorp



AMERESCO INSTALLED STREETLIGHTS

- Ameresco has a unique agreement with Pacific Power Lights (PacifiCorp)
- Energy-as-a-Service contracting allows a City to upgrade PPL-owned lights without the need for upfront capital
- Utilized as a service agreement between City and Ameresco – seen as off-credit/non-debt mechanism

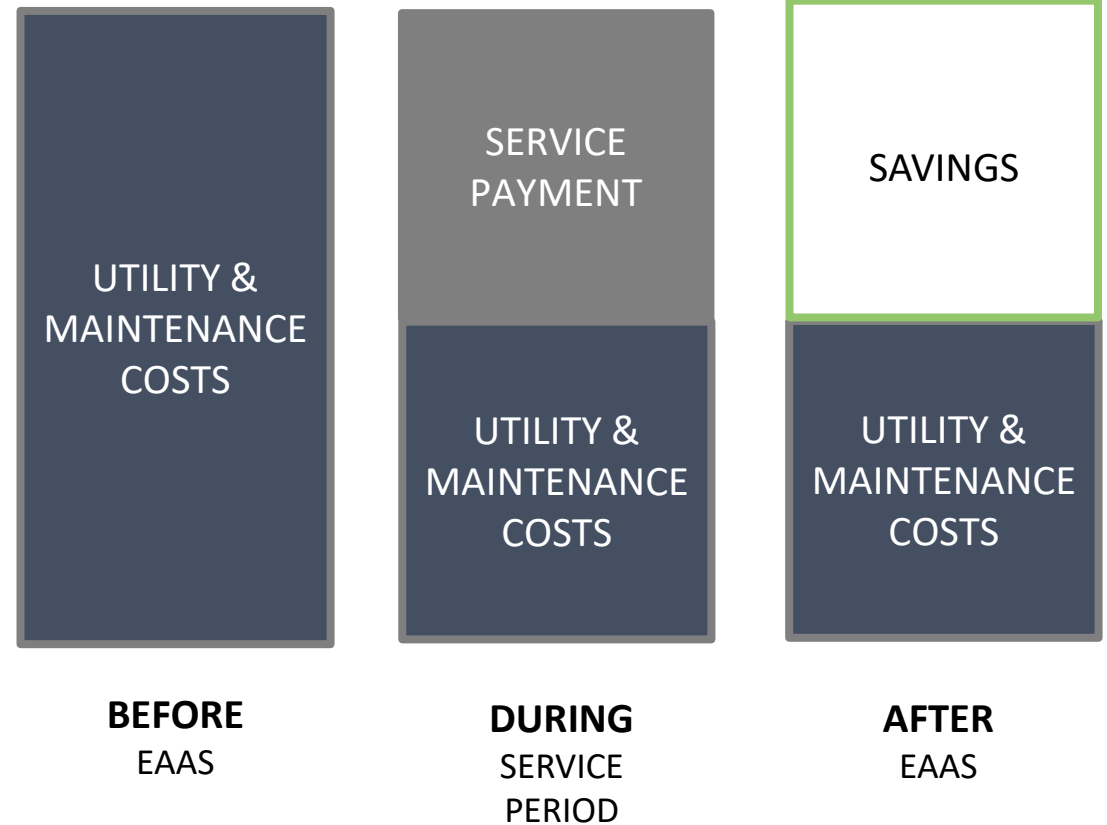
Single Source of Accountability



Savings Fund Improvements



Number of PPL Streetlights	881
2022 annual utility cost for PPL streetlights	\$130,552
Calculated annual utility savings (w/LED)	\$40,691
New annual utility cost for PPL LED streetlights	\$89,861*
Estimated incentive from Energy Trust of Oregon (one-time payment)	~\$90,000
EaaS Service Period	12 years



* Based on current PPL Schedule 51 (customer funded replacement) rates.

Customer Proforma

CITY OF SWEET HOME																				
ENERGY AS A SERVICE																				
PRELIMINARY - STREETLIGHTS																				
Pro Forma - Service Agreement	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
Budget Savings																				
Utility Efficiency Savings and Solar Savings	40,691	41,912	43,169	44,464	45,798	47,172	48,587	50,045	51,546	53,093	54,685	56,326	58,016	59,756	61,549	63,395	65,297	67,256	69,274	71,352
Operational Savings	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Utility Rebates	0																			
Total Benefits	40,691	41,912	43,169	44,464	45,798	47,172	48,587	50,045	51,546	53,093	54,685	56,326	58,016	59,756	61,549	63,395	65,297	67,256	69,274	71,352
Costs																				
Service Payments	(38,526)	(39,682)	(40,872)	(42,098)	(43,361)	(44,662)	(46,002)	(47,382)	(48,804)	(50,268)	(51,776)	(53,329)	-	-	-	-	-	-	-	-
Includes: Energy Services, M&V, Capital Reserve, Insurance, and Taxes																				
Customer Contribution (Utility Rebate)	(90,000)																			
Total Payment Amounts	(128,526)	(39,682)	(40,872)	(42,098)	(43,361)	(44,662)	(46,002)	(47,382)	(48,804)	(50,268)	(51,776)	(53,329)	-	-	-	-	-	-	-	-
Net Annual Benefit / (Cost)	2,165	2,230	2,297	2,366	2,437	2,510	2,585	2,663	2,743	2,825	2,910	2,997	58,016	59,756	61,549	63,395	65,297	67,256	69,274	71,352
Cumulative	2,165	4,395	6,692	9,058	11,494	14,004	16,589	19,252	21,994	24,819	27,729	30,726	88,741	148,497	210,046	273,442	338,739	405,995	475,268	546,620

Year 1 net benefit during EaaS term:

\$2,165 (increasing annually)

Cumulative net benefit over 20 years
(expected equipment life):

\$546,620

Construction Schedule

Project Start	Aug '23
Finalize Equipment Selection & Material Ordering	August
Equipment Lead Time	Sept-Oct
Installation	Oct-Nov
Substantial Completion	Dec '23

Thank you.



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