



City of Arcadia

Energy Efficiency Street Lighting Upgrades

Case Study

www.theenergynetwork.com



Free Turnkey Project Delivery Services Utilized

- ✓ Incentive Application Assistance
- ✓ Project Management
- ✓ On-Bill Financing Application
- ✓ Audit and Design/Scope of Work
- ✓ Financial Analysis
- ✓ NJPA Construction Services
- ✓ Energy Engineering Support
- ✓ Construction Management Support

Situation Analysis

The City of Arcadia came to The Energy Network with the desire to upgrade their inventory of streetlights and help mitigate their ever-increasing operational costs. Retrofitting hundreds of streetlights is a complex undertaking and the City did not have sufficient resources to determine which types of fixtures to purchase, select, or a cost-effective way to procure them.

Working alongside San Gabriel Valley Council of Governments (SGVCOG), The Energy Network provided the City with a comprehensive energy audit and financial analysis of the city's existing inventory of streetlights. After matching lights to their corresponding service accounts, The Energy Network helped the City apply for utility incentives and On-Bill Financing to minimize cost and maximize the ROI. With the help of the Energy Network, The City was able to access competitively selected contractors through the National Joint Powers Alliance (NJPA). Access to the NJPA means detailed, transparent, competitively bid pricing and avoids the need to use a design-bid-award process. Circumventing this

usual lengthy process meant that construction was completed in just four months.

Project Summary & Benefits

Using The Energy Network's expedited Turnkey Project Delivery process, Arcadia's street lighting project was completed in just 11 months, including incentive application approvals and construction. In total, 810 high-pressure sodium street lights were replaced with high efficiency LED lighting.

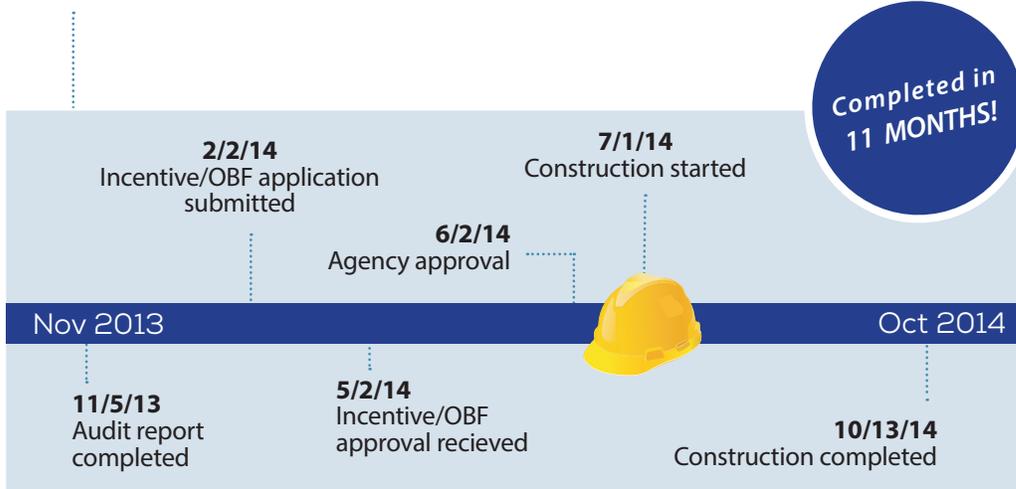
The 810 newly installed LED fixtures are adjustable to fit the City's future needs, are cost-effective and save 435,521 kWh a year. The LED fixtures are a prime example of the City of Arcadia's dedication to improving city-wide operations. The investment in new lighting has helped save the city \$52,262 in annual energy costs while reducing greenhouse gas emissions by 147+ tons.

Key Savings

- **435,521** kWh annual savings
- **\$52,262** annual savings
- **\$58,532** in utility incentives
- **59.6%** ROI
- **\$319,096** On-Bill Financing (OBF)

**Simple
Payback in
6.2 Years!**

Timeline



Project Cost

Gross Project Costs	\$382,464
Incentives and Rebates	-\$58,532
Project Costs	\$323,932
0% Financing (OBF)	\$319,096
Net Project Costs	\$4,836

Energy and Cost Savings Analysis



What is The Energy Network?

The Energy Network was created to harness the collective power of public agencies to achieve an unprecedented level of energy savings across Southern California. The City of Arcadia's enrollment and commitment to work together to complete projects saves energy, saves money and improves our communities through overall shared environmental and economical benefits. For more information contact info@theenergynetwork.com or call (855) 700-NETWORK.

This Program is administered by the County of Los Angeles and funded by California utility ratepayers under the auspices of the California Public Utilities Commission