

Energy Efficiency Profile

Street Lighting Retrofit & Maintenance, City of Cranston, RI



CASE STUDY DETAILS

The city of Cranston, RI is home to over 9,600 street lights. The City took over operation of the street lighting system from National Grid, and contracted with RISE Engineering to upgrade all of its equipment to LED technology.

RISE conducted a detailed inventory of the equipment at all locations, and implemented a replacement strategy that significantly reduced operating costs and improved the quality of light and public safety. RISE helped Cranston secure enhanced incentives from National Grid and the RI Office of Energy Resources that reduced the city's out of pocket expense by 38%.

The new fixtures use an average of 38 watts each, a 73% reduction from the previous equipment. They are Smart City control-ready, in the event the City opts to add that feature in the future.

RISE is also under contract for the maintenance of the street lights for five years. The service represents a turnkey solution for the city that will yield considerable savings over the life of the contract.



“RISE Engineering Completed our project on time and within budget. They have an excellent relationship with National Grid, which provided a seamless transition with the required reporting of the LED light conversions. Any required maintenance of the lights has been completed in a timely and professional manner. I would not hesitate to recommend RISE Engineering for our next energy efficiency project.”

Kenneth R Mason PE
Director of Public Works

THE NEED

Improve quality of light and public safety, reduce the cost of energy and reduce recurring maintenance costs.

THE SOLUTION

- Design specific areas for additional light based on use and need in the community
- 1-for-1 retrofit of existing street lights to new, highly efficient LED
- Continue support in the role as Street Light Maintenance Contractor

ABOUT RISE ENGINEERING

A pioneer in the delivery of turnkey energy-efficiency services, RISE Engineering works with utilities and other energy program sponsors to offer residential, commercial, industrial, institutional and public-sector energy users comprehensive efficiency services that reduce their environmental footprint and operating expenses.

OVERALL RESULTS

Total Project Cost	\$2,335,000
NGRID/OER Incentives	-\$885,000
Customer Cost.....	\$1,450,000
Annual kWh Saved	~3,850,000
Annual Energy \$ Saved.....	~\$507,000
Simple Payback	< 3 Years

To schedule your free energy assessment, go online, contact us at (800) 422-5365 or efficiency@RISEengineering.com.

RISE Engineering, a division of
Thielsch Engineering, Inc.
1341 Elmwood Avenue, Cranston, R.I. 02910