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| Facility type | Town/K-12 buildings |
| Project cost | \$13.2 million |
| Annual savings | \$938,494 |
| Contract term | 15 years |
| Contract type | ESPC |

TOWN OF SOUTHINGTON

Southington, CT

Savvy scheduling moved the Town of Southington’s guaranteed energy savings performance contract (ESPC) to the head of the class for cool schools and energy efficiency.

With construction completed in July 2016, the Town of Southington’s \$13.2 million ESPC with NORESKO self-funds critical building improvements. Attentive scheduling allowed NORESKO to accelerate the town’s savings and improve conditions at the local high school even faster.

Although the town had done a commendable job maintaining and modernizing existing facilities, a growing list of energy-related infrastructure needs—often involving major equipment beyond its useful life—burdened the town’s budgets. To address these challenges, town leaders began to explore performance contracting.

The project’s most important energy conservation measure (ECM) improved building systems at the local high school, where NORESKO replaced all of the aging heat pumps and rooftop units and replaced old pneumatic controls with a new direct digital control energy management system. With expedited delivery of the new rooftop units, NORESKO completed the rooftop unit installation in a single summer.

Highly-engaged town leaders set the project vision. Broad support and quick approvals moved the project swiftly and kept it on-time, enabling improvements to a wide range of buildings. NORESKO also worked on Southington’s behalf to obtain utility incentives totaling more than \$1.3 million, outside the project financing.

From lower energy and maintenance costs for HVAC and lighting to better visibility in classrooms and along LED-lit roadways, the future is bright.

Technical Highlights

- ▶ HVAC upgrades including rooftop unit replacements
- ▶ Energy management control system upgrades with direct digital controls
- ▶ LED streetlights
- ▶ Lighting retrofits & controls
- ▶ Energy efficient transformers & power factor correction
- ▶ Retro-commissioning
- ▶ Walk-in refrigeration updates
- ▶ Building envelope improvements
- ▶ Energy efficient motors & variable frequency drives
- ▶ Computer power management software
- ▶ Fuel switching for boilers
- ▶ Boiler controllers

Environmental Impact

- ▶ 4,509,455 kWh reduction in annual electricity consumption
- ▶ 6,435,948 lbs. reduction in CO₂
4,249 lbs. reduction in SO_x
6,155 lbs. reduction in NO_x
- ▶ Equivalent to removing 644 cars from the road