

ESCO, Inc.

Troy, NY

Rensselaer Technology Park saves energy with trusted contractor ESCO, Inc.

BACKGROUND

The NYSERDA HVAC Business Partners Program trains participating contractors to properly optimize rooftop air conditioning units with the use of the ANSI/ASHRAE/ACCA Quality Maintenance (QM) Standard 180 and advanced diagnostic tools. Technicians from ESCO, Inc., a participating Partner, are given precise instruction, tools and ongoing mentoring to diagnose and optimize commercial air conditioning units, and they are able to clearly explain the benefits of QM to their customers.

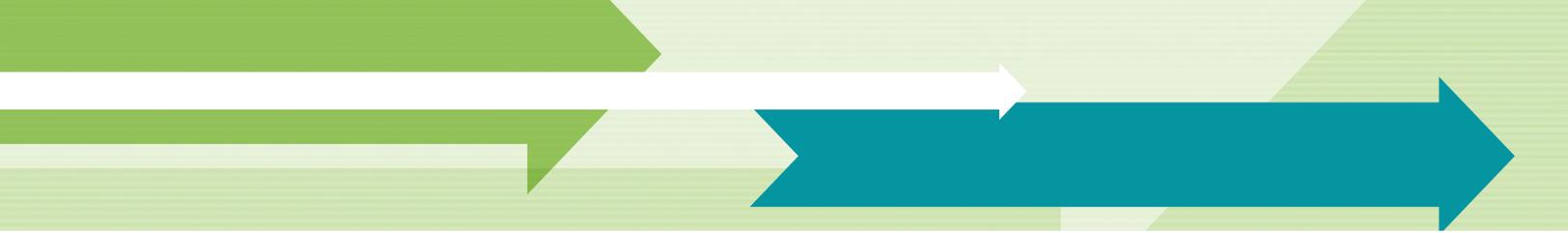
PROJECT RECOMMENDATIONS

For more than 10 years, ESCO, Inc. has been the trusted HVAC contractor for various facilities within the Rensselaer Technology Park in Troy, NY. Soon after joining the NYSERDA HVAC Business Partners program, Paul Gigante, president of ESCO, Inc., approached the tech park about expanding its existing service plan to include QM with diagnostic testing. His client agreed that its units would benefit from a more advanced service, beyond the basic maintenance routine done previously.

Throughout the summer months, technicians performed QM with diagnostic testing on 123 rooftop air conditioning units spread over 10 buildings at the tech park. After following the task checklist for rooftop air conditioning units and economizers, trained technicians corrected and recalibrated refrigerant and superheat, and made other minor repairs and adjustments.

“ESCO, Inc. has been the primary HVAC contractor at the technology park for many years. When they approached us about the Quality Maintenance initiative, the benefits seemed very compelling. Diagnostic testing and adjustments have been completed and we expect to reduce overall energy consumption, extend the useful life of our equipment and reduce utility costs for our tenants. We will continue to accrue those operating cost savings going forward.”

– Karl Lampson, Manager,
Finance and Business Operations,
Rensselaer Technology Park



RESULTS & BENEFITS

Once the maintenance and adjustments were complete, the technicians confirmed through the diagnostic tool that each of the units was correctly optimized. Estimated energy savings for these 123 units is 78,072 kWh, or approximately \$12,490 saved during the cooling season (at 16 cents/kWh).

By working under the QM guidelines, additional benefits for the tech park include:

- Longer equipment life.
- Smoother and more efficient running.
- Less stress on compressors.

“The NYSERDA Business Partner Program is an easy way for our customers to save energy and HVAC-related costs,” said Gigante. “The diagnostic tool is very accurate and straightforward. Everyone can benefit from the Quality Maintenance service.”

– Paul Gigante, President, ESCO, Inc.

