NYSERDA
BUSINESS PARTNERS PROGRAM

HVAC PARTNERS

CASE STUDY

All State Air Control

Mount Vernon, NY

All State Air Control reduces both costs and repairs for Pepsi-Cola Bottling Company.

BACKGROUND

By teaching 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, the NYSERDA HVAC Business Partners Program provides a distinct competitive advantage. Trained technicians from All State Air Control are given proper instruction, tools and ongoing mentoring to intelligently diagnose and optimize these units, then clearly explain the benefits of QM to their customers.

PROJECT RECOMMENDATIONS

All State Air Control recently re-established an account with the Pepsi-Cola Bottling Company facility in Mt. Vernon, NY, and set up a QM service plan with diagnostic testing. The first service visit was for one 4-ton and two 15-ton rooftop units. Technicians followed the ANSI/ASHRAE/ACCA QM Standard for rooftop air conditioning units and economizers. A host of early warning signs were found that the units would eventually require repair or replacement of bearings, a blower wheel, and shaft on one unit, and the compressor and contactor on another. All State Air Control explained to the client how these small repairs would avoid further, catastrophic breakdowns—particularly at the hottest times of the year.

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RESULTS & BENEFITS

Once the minor repairs were complete, the technicians finished the cleaning and inspection, checked and balanced refrigerant charge and airflow, and confirmed through the diagnostic tool that each of the units was correctly optimized. Estimated energy savings is 4,210 kWh or approximately $674 saved during the cooling season (at 16 cents/kWh). An estimated $5,100 in repair costs was also successfully avoided by having these units treated under QM.

Javie Gordon, the technician for All State Air Control, said, "It's exciting to see the direct results from my work. I get to be a hero and use my skills to save money and downtime for our customers."

> "We've been a fan of All State Air Control for more than 25 years. The team has always done work to the maximum. All State Air Control is very reliable, and responds immediately to us. We think the world of them."
>
> – Phil Ianora,
> Manager, Building Operations,
> Pepsi-Cola Bottling Co.

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