



STATE OF NEW HAMPSHIRE DEPT. OF ADMIN. SERVICES

CONCORD, NH



SAFETY RECORD

ZERO Recordable Events



PROJECT SIZE

8 buildings

450,000 sq. ft.

\$4M



PROJECT SCHEDULE

6/30/22-11/01/23



CONTRACT METHOD

ESPC



SAVINGS INFORMATION

\$5.3M over a 20 year contract term



The New Hampshire Department of Administrative Services (DAS) houses over 1,000 state employees. The buildings include laboratory testing facilities, office and courtroom spaces, mechanical services garages, and a 24/7 emergency service center including the 911 call center. The New Hampshire DAS wanted to implement an energy and infrastructure program that would meet the stringent requirements of the State's energy performance contracting statute. NH DAS partnered with ESG who provided auditing and engineering, design, project management, measurement and verification of energy savings, and supported the state in securing financing. NH DAS also required the project to meet the guidelines under NH's ESPC program, the investment in ECM's implemented in buildings within individual administrative groups must be cash-flow neutral.

SOLUTION

The following energy conservation measures were installed:

- Interior and Exterior LED Lighting
- Efficient Domestic Hot Water Systems
- Optimizing Building Automated Control Systems
- Compressed Air System Improvements
- Upgrading HVAC equipment
- Transformer Replacements
- Variable Frequency Drives
- Renewable Energy Generation - Solar PV
- Building Envelope Weatherization
- Pipe, Valve, and Fitting Insulation
- Water Conservation (and Irrigation Sewer Credits)

RESULTS

From their partnership with ESG, NH DAS achieved greater than 50% savings in the Department of Transportation administrative group that included three buildings comprised of office space, service garages, and laboratory facilities. This was done by substantially reducing outside airflows in consultation with an industrial hygienist and optimizing the use of infrared heaters in service bays. Per NH statute, this project will use utility incentives received for both electric and natural gas savings for supplemental measures beyond the ESPC.