Project Highlight

U.S. Coast Guard Academy, CT

AMERESCO



Utility Energy Services Contract (UESC) to Reduce the Academy's Energy Consumption by 48%

Technology Type:

Combined Heat and Power Plant | Distributed Energy Generation | Energy Efficiency | Energy Savings | Renewable Energy | Solar Power | UESC

Reduced Energy Consumption

48%

Reduced Water Consumption

15%

On-Site Energy Generation

1.5 MW

Annual Energy Cost Savings

$2+ Million

Summary

Eversource and Ameresco partnered to deliver a comprehensive energy efficiency and infrastructure project at the U.S. Coast Guard Academy in New London, CT. Funded through energy cost savings, the project is the largest UESC ever awarded by the U.S. Coast Guard and the Department of Homeland Security. The project significantly modernized the institution's energy infrastructure, impacting facilities from the barracks to the academic laboratories.

Solution

The $39 million project at the U.S. Coast Guard Academy features the replacement of the Academy's oil-fired boiler plant with a high-efficiency natural gas plant. The project scope also includes renewable and on-site energy generation, an expanded chiller plant, and dozens of energy efficiency upgrades. Ameresco designed and implemented meaningful, scalable solutions to renew the aging energy infrastructure.

- Replacement of fuel oil-fired boiler plant with a high efficiency natural gas plant
- Energy and water conservation measures
- Lighting system improvements
- Renewable energy and on-site energy generation, including rooftop solar arrays
- Expanded central chiller plant
- 1 MW CHP plant that generates electricity on-site with a micro-turbine generator

When the construction is complete, the Academy will reduce total electricity imported from the grid by nearly 80 percent. The appreciable benefit to the neighborhood and region could not have been possible without the two years of planning and design efforts and the partnership between our Coast Guard engineers, Eversource management, and the technical team from Ameresco.

Rear Admiral Melvin Bouboulis
Chief Engineer, U.S. Coast Guard





Benefits

Funded through energy cost savings, the project was designed to reduce overall energy and reduce water consumption. Implemented across the 85-year-old campus, this project results in enhanced energy resiliency. It substantively modernizes the institution's energy infrastructure, impacting facilities that span the barracks to the academic laboratories.

- Save more than $2 million in annual energy costs
- Reduce overall energy consumption by 48%
- Reduce water consumption by more than 15%
- Reduce total electricity imported from the grid by nearly 80%
- Improve reliability of electrical systems
- Increase energy resiliency
- Reduce carbon emissions by ~ 7,800 metric tons per year

AMERESCO

Ameresco's team of energy experts can
assist you in identifying the solution that fits your needs.

For more information about Ameresco and our full-range of energy efficiency and renewable energy solutions, please call **1-866-AMERESCO** or visit **ameresco.com**.

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