

CASE STUDY

Juvenile Detention Center Bridgeport, CT Energy Audit

Project: Energy Efficiency Study

Client: State of CT Department of Public Works

Scope: Celtic Energy performed an energy efficiency study of this 18,000 SF historic youth detention facility in 2003.

Features: Celtic Energy was challenged to reduce costs and improve the working environment of this historic building, originally constructed in the 1950s.

We completed the study and are currently in the design phase for implementing our recommended measures. The recommended measures totaled over \$120,000 in construction costs, with annual savings of over \$15,000. Recommended measures included:

- Upgrade Fluorescent Lighting
- Replace Incandescent fixtures with Fluorescents
- Install Occupancy Sensors
- Install Photocells for Daylighting
- Insulate Hot Water Pipes
- Install Building Automation System
- Replace Electric Rooftop AC Units with High-Efficiency Gas-fired units
- Improve light levels in Bedrooms to meet Federal Detention guidelines

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