



PELICAN BAY STATE PRISON

Crescent City California



\$63K

Verified Annual Savings

3,484 MMBTU

Verified Annual Energy Savings

At a glance

CEG Solutions completed an energy savings project at California's only supermax facility, reducing energy losses, improving resiliency, and addressing operational pain points.

OVERVIEW

PBSP's aging central steam distribution system created energy waste, maintenance challenges, and reliance on diesel fuel. The facility required upgrades that could be delivered under tight security protocols, while maintaining 24/7 operations critical to a maximum-security prison. CEG was selected to design and implement a solution that would reduce energy consumption, increase resiliency, and improve facility operations.

Project Highlights

- Completed 2022 at California's only supermax prison
- \$63K verified annual cost savings; 3,484 MMBtu energy savings
- 23,351 gallons diesel saved annually (52% reduction)
- 184 metric tons CO_{2e} avoided each year
- Resiliency improved through coordinated outages & temporary boilers



STRATEGIES

Building Performance Compliance, Energy & Operational Efficiency, Energy Audits, Performance Contracting, Resiliency



SOLUTIONS



The project replaced the steam and condensate distribution lines, reducing losses and alleviating strain on PBSP's Thermal-Pac boilers. Temporary boilers were staged to ensure uninterrupted service. CEG also coordinated closely with prison management and security, using satellite imagery, utility data, and detailed work plans to minimize disruption and streamline on-site work. This approach allowed major site visits to be completed in a single week, reducing escort requirements and maintaining facility security.

Energy Conservation Measures

- Steam & condensate line replacement

RESULTS



The upgrades deliver \$63K in verified annual cost savings and 3,484 MMBtu of energy savings. Diesel consumption dropped by 23,351 gallons annually, cutting average use by 52% across in-scope buildings. Annual greenhouse gas emissions decreased by 184 metric tons CO₂e, while resiliency and operational reliability improved across the facility.

