



CASE STUDY

Pratt & Whitney: Middletown Site

In April 2008, Celtic Energy completed an energy assessment and audit of the ~ 2 million SF (25+ building) Pratt & Whitney aircraft engine manufacturing and testing complex in Middletown, CT.

Although the on-site P&W E&HS (Environmental, Health, and Safety) “Energy Team” had been very proactive in implementing energy-efficiency programs, Celtic Energy was able to identify twenty-five energy efficiency opportunities beyond those previously implemented. The range of projects identified includes: Replace Plant HID Lighting with High Output LED’s; Implement Daylight Harvesting; Install Computer Power Management System; Expanded EMS Control & Functionality; Extensive VFD Installations; Data Center Cooling Upgrade; CO₂ Based Demand Controlled Ventilation; Kitchen Ventilation System Upgrade; Numerous Process Cooling System Upgrades; Compressed Air System Upgrade; and Back-Pressure Steam Turbine Recommendation.



The measures are estimated to generate annual savings on the order of:

- 18,884,396 kWh of electricity
- 1,853 kW electrical demand reduction
- 10,107 MMBtu fossil fuel energy reduction
- \$2,038,112 energy cost savings; \$34,981 O&M savings (4.2 yr SP)



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