



Energy Management & Planning

Client
Port of Seattle

Location
Seattle, WA, USA

Energy Management Strategies Determined for Seattle-Tacoma International Airport

Project Highlights

- Conservation investment decisions
- Further evaluating power generation options
- Negotiating a power supply contract with the Bonneville Power Administration
- Negotiating transmission agreements with Puget Sound Energy and other transmission suppliers
- Obtaining ancillary services for the port's power supply
- Evaluating new natural gas supplies
- Developed energy use profiles, reviewed trends, evaluated energy options, and analyzed available generation options for the airport
- Assisted in the implementation of recommended strategies

Project Description

For the Port of Seattle, CH2M HILL conducted an energy strategies study for electric and gas requirements at the Seattle-Tacoma International Airport (Sea-Tac). This study provided management with recommendations for procuring economical and reliable energy to meet the airport's operational requirements.

This study was concurrent with multiple other projects CH2M HILL was managing at Sea-Tac including the \$20 million, six-year construction program for a new 8,500-foot Category III runway.

For the study, CH2M HILL developed energy use profiles, reviewed the regional energy market and long-range trends in cost and reliability, evaluated energy options with the airport's current electric and natural gas supplier, and analyzed generation options available to the airport.

Based on the study, short- and long-term power supply and demand-side strategies were developed for the airport. In a follow-on contract, CH2M HILL assisted the Port of Seattle in implementing recommended strategies, including temporary generation facilities.