



## Monitor and Benchmark Plant Performance

### Application

The Ovation Performance Advisor allows operators to identify controllable losses, track equipment performance against design specifications, and quickly identify problematic process areas to reduce operating costs. This solution provides a complete set of boiler and turbine performance calculations (based on ASME Performance Test Codes) to match the specific plant equipment set. The Ovation Performance Advisor incorporates design test case capability and has historian interfaces for data replay.

### Strategy

#### Efficient Operating Modes

The Performance Advisor models plant equipment and overall heat balance, adapting to the plant's changing conditions and determining the most efficient operating modes. The tools are provided for plant resources to update or revise all the equipment models as the plant is maintained or upgraded.

#### Data Validation

The Performance Advisor includes a full set of steam and air property tables, and a data validation module that can be used on critical signals.

#### OPC-Compliant

The Performance Advisor solution is fully OPC-compliant and communicates with any DCS OPC server.

### Results

- Reduces operating costs by tracking unit heat rate penalty costs over time and indicating dollars lost due to equipment performance deviations
- Calculates net unit heat rate and tracks heat rate deviations via controllable and maintenance losses
- Displays deviations and cost of deviations to help operator determine whether equipment repair or maintenance is required
- Major asset efficiencies are calculated for long term trends and analysis

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