



Reduce Costs While Balancing Power Demands and Emissions Regulations

Application

Balancing increases in fuel costs, power demands, and emissions control regulations while reducing power generation costs is a challenge. Whether implementing the load dispatch at any given moment or for a future period of time, the Ovation Economic Optimization solution can help plants to optimize power generation across several generating units in a networked region, based on a number of factors, including operating costs, unit efficiencies, maintenance schedules, and operational constraints.

Strategy

Power Distribution

The Economic Optimization solution enhances power distribution among several generating units at a single plant or across a fleet of networked plants.

Change Reaction

With an improved ability to react to changes in load demand and fuel costs, the Economic Optimization solution improves the ability to make decisions when entering into electricity and steam buy/sell contracts.

Maintenance Costs

The Economic Optimization solution improves maintenance expenditures by predicting unit maintenance requirements and controlling the loading on units that are approaching an overhaul period.

Fuel Utilization

The Economic Optimization solution optimizes fuel utilization and loads on steam and power producers to satisfy process steam and power demands in the most cost-effective manner.

Results

- Reduces total plant and/or regional heat rate
- Enhances power distribution among generating units at a single plant or entire fleet
- Improves the ability to react to changes in fuel costs
- Improves the ability to react to changes in total load demand for a plant or across a region
- Optimizes maintenance costs by predicting maintenance needs and controlling the loading on units that are approaching an overhaul period

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