



## Operate Cost-Effectively While Achieving Environmental Compliance

### Application

The Ovation Fleet Optimization solution helps customers comply with regulations, reduce operating costs, and meet the increased demand for electricity on a fleet-wide scale. By integrating data like operating labor costs, additional operating heat rate penalties, and maintenance costs, the Fleet Optimization solution calculates the cost of environmental processing, such as scrubbing and NOx removal.

Residing on a central server, the Fleet Optimization solution receives key parameters from each plant within the fleet. Using these parameters, the Fleet Optimization solution calculates the cost of an environmentally processed megawatt. This solution also provides FGD or SCR systems with setpoints that can be sent from the central computer to each of the plants to provide operational advice or even closed-loop control.

### Strategy

#### Emissions Control

The Fleet Optimization solution determines the optimum SO<sub>2</sub> and NO<sub>x</sub> emission rates for each plant within the fleet so the total amount of SO<sub>2</sub> or NO<sub>x</sub> produced doesn't exceed the yearly caps, and the FGDs and SCRs are utilized in the most cost-effective manner.

#### Data Display

Data is collected from various plants and displayed through web-based trend visualization, charts, and decision-support screens that can be accessed throughout the enterprise.

#### Remote Server

The Fleet Optimization solution displays the control system graphics and backups of the historical data on a remote server that can be accessed from any PC on the corporate LAN/WAN that is equipped with client software.

### Results

- Provides data redundancy of key variables
- Replicates and/or diversifies calculations used for business decisions
- Provides a reporting mechanism for collected data
- Predicts emission cap compliance based on load forecasts
- Actively optimizes the plant settings, in real-time, to achieve the desired compliance target margins

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