



## Case Study

# Automated Power Scheduling for Indian Power Distribution Company

**LTIMindtree helped reduce manual intervention in load prediction and improved system efficiency for a state-run Indian power company.**

## Client

The client is a state-run power distribution company in India.

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## Challenges

The client was facing challenges in power scheduling and at the Power Exchange:

- Manual power scheduling was prone to errors, inefficiency and failure for identifying the right market opportunity. In addition, it was quite a cumbersome process.
  - Calculation of surplus power cost available to sell in the Power Exchange was difficult.
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## LTIMindtree Solution

- Capture Supply/Demand schedules provided by Power Plants (SLDC Entitlement) and Distribution companies (Forecasted Demand).
- Automation of scheduling operation, thereby increasing operation efficiency.
- Set-off plants based on the lowest cost to meet the demand on priority.
- Optimization Algorithm is used to achieve Merit Order Dispatch operation.
- Options available to keep plants under reserve shutdown, and provision available for power back-down.
- Provision available for Hydel Entitlement Adjustment for real-time scheduling functionality.
- The solution is highly customizable with user-friendly GUI.

## Business Benefits

- Improved turnaround time.
- The utility process like MOD, RSD got standardized and streamlined.
- The scheduling process is fully integrated with the Power Exchange bidding; billing modules give the user a holistic view.

# Technology

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