



What is Open Access

Open Access allows electricity consumers to have the right to procure power from the supplier of their choice other than their distribution company. As per CERC guidelines, Indian Railways is now a deemed distribution licensee, which allows it to purchase power directly from the transmission utilities.

Demand Forecasting

Every state in which IR is availing open access scheme, requires them to provide day-ahead power demand requirement. Therefore, a solution to forecast the demand is required.

Demand forecasting application uses a machine-learning model to analyze historical demand consumption and determine trends and seasons within the data. Real-time inputs made available to the system are used to re-train the model for future forecasts.

Intra-day correction of forecasted values based on real-time energy consumption inputs are used to revise the demand schedule as per operational exigencies.

Machine Learning model based on historical data

Detects Trends and Seasonality

Bias correction based on real-time inputs

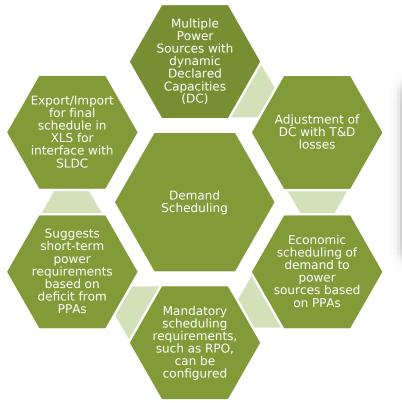
Flexible block-integration period

Tunable parameters for each installation

Demand Scheduling

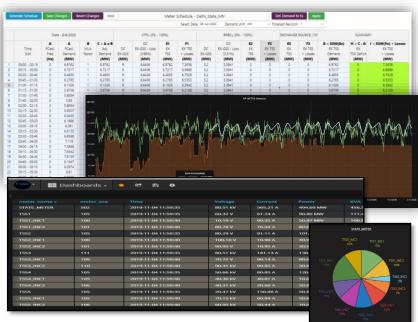
Demand scheduling under open access requires management of power purchase agreements (PPA), declared capacities (DC), T&D losses, regulatory requirements. These inputs are used along with the forecast to generate an economically optimal power purchase schedule.

Inputs such as operational exigencies such as weather, breakdown, etc. can be used to manually adjust the power demand requirement and hence the schedule.

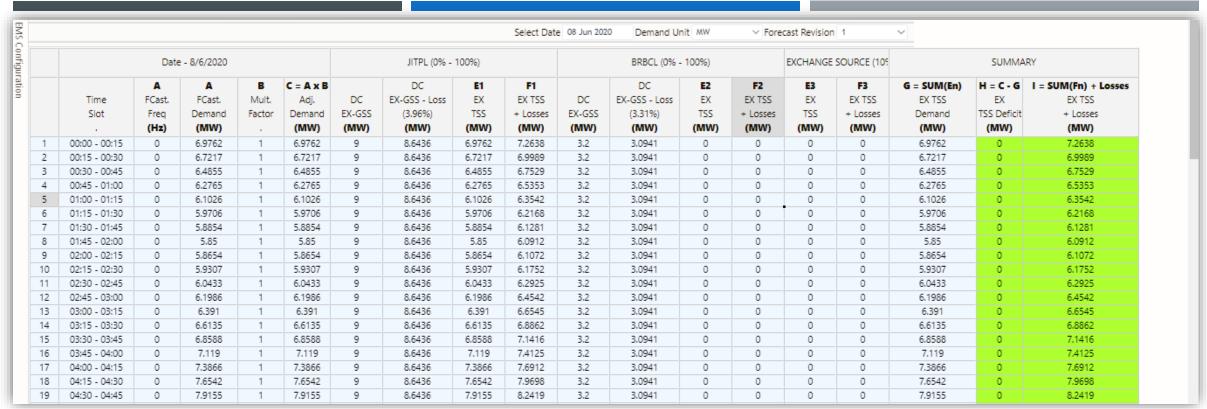


Operational Aids





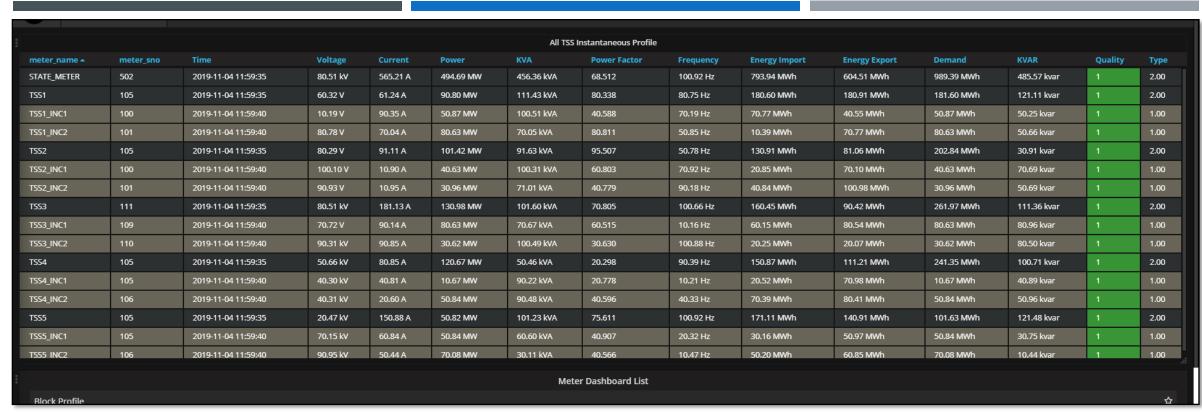




APPLICATION SCREENSHOTS

Power Scheduling Worksheet





APPLICATION SCREENSHOTS

Instantaneous Profile for all TSS





APPLICATION SCREENSHOTS

Actual vs Scheduled vs Forecasted Demand