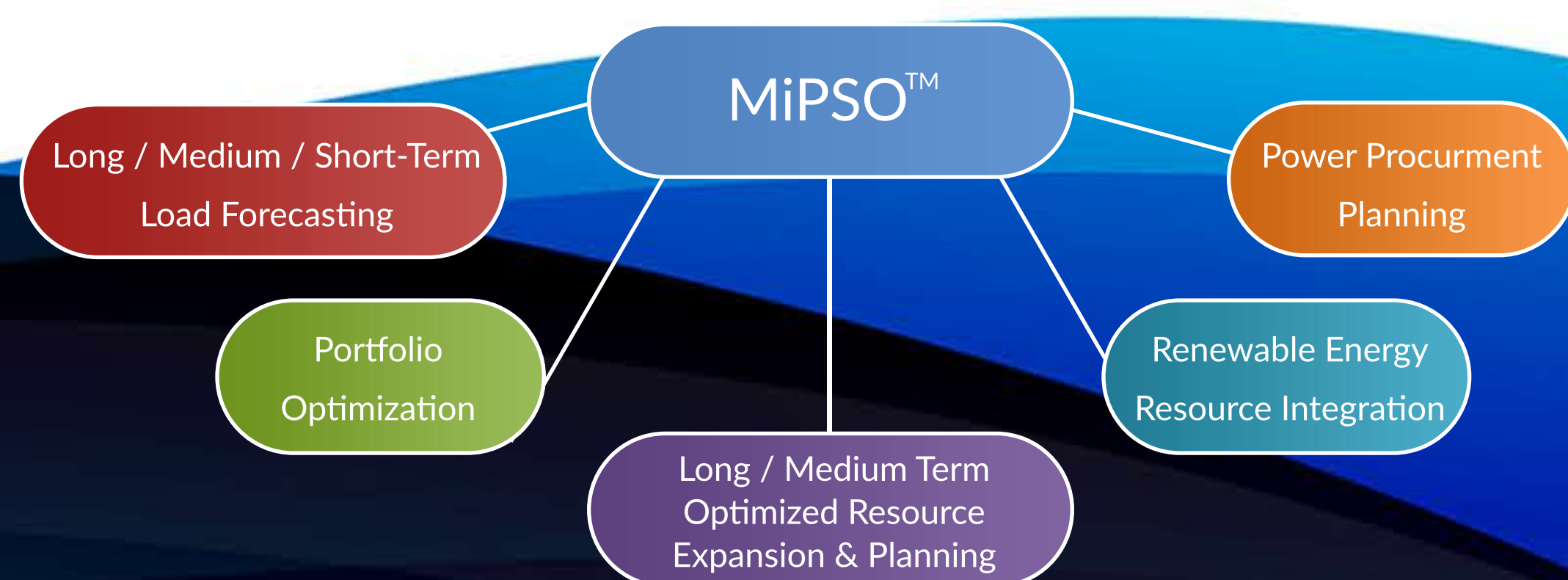


What is MiPSO™?

MiPower™ Scheduling & Optimisation presents an integrated approach for the advanced load forecasting, Long/medium-term Capacity Expansion Planning with resource optimization, Procurement optimization and short term operational planning of the power system.

MiPSO™ incorporates load forecasting, generation planning (resource optimization along with Hydro-thermal Coordination) and procurement optimization modules. It enables the dispatcher to define and review interchange agreements (contracts) and interchange transaction schedules (ITS) with partners in the energy market and supervise the transactions. It also allows the operator to evaluate the economic and operational feasibility of anticipated interchange transactions (planned purchase or sale transactions) with another utility while accordingly re-scheduling the own resources.



MiPSO™ Key Features

- Faster analysis despite larger datasets
- Provides advanced analysis and risk assessments
- Intuitive and user-friendly Interface
- Accurate load forecast for different horizons with Econometric models
- Self-learning and self-calibrating algorithms for accurate load forecasting (ANN)
- Various advanced algorithms and methods to deal with the uncertainties
- Model uncertainties using probabilistic methods like Monte-Carlo simulation
- Multi-source optimization by integrating multiple models
- RE maximization to meet the growing demand
- Investment decision analysis & make better power purchase decisions.
- Flexible scenarios generation

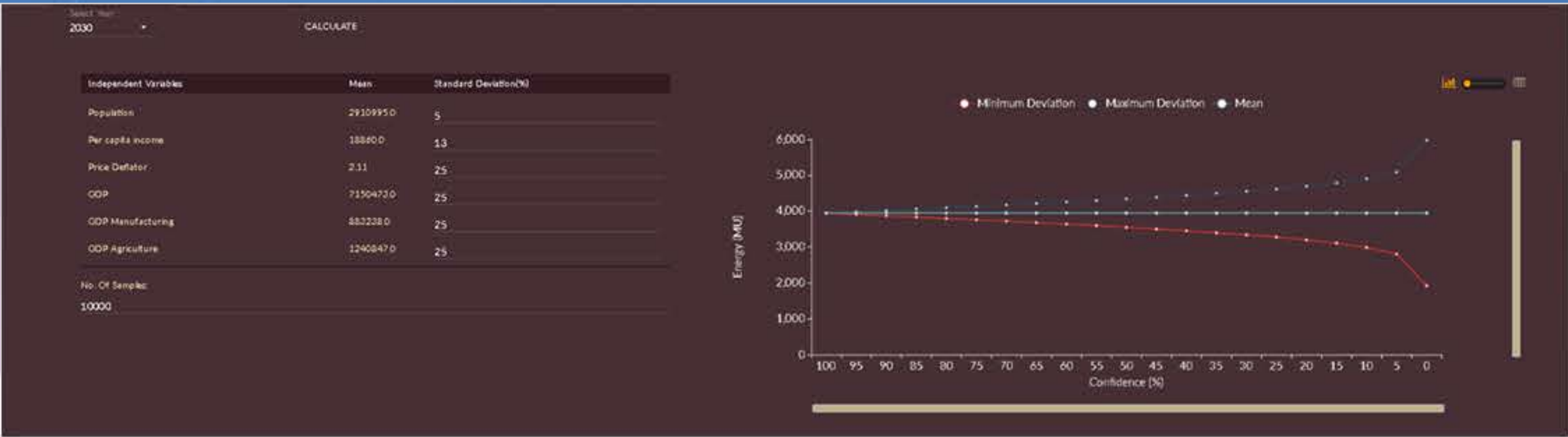
Product Highlights

All the utilities are mandated by government and regulators to replace the fossil fuel-based power generation of the yesteryears with renewables of the neo-generation to foster greener grids. The challenges and limitations are growing with the increased RE integration which is handled by MiPSO™ using the following functionalities:

Long / Medium / Short-term Forecasting Provides Hourly Demand Profile & Seasonal Energy Demand



Probabilistic Algorithms Help Utilities to Select Most Likely Scenarios



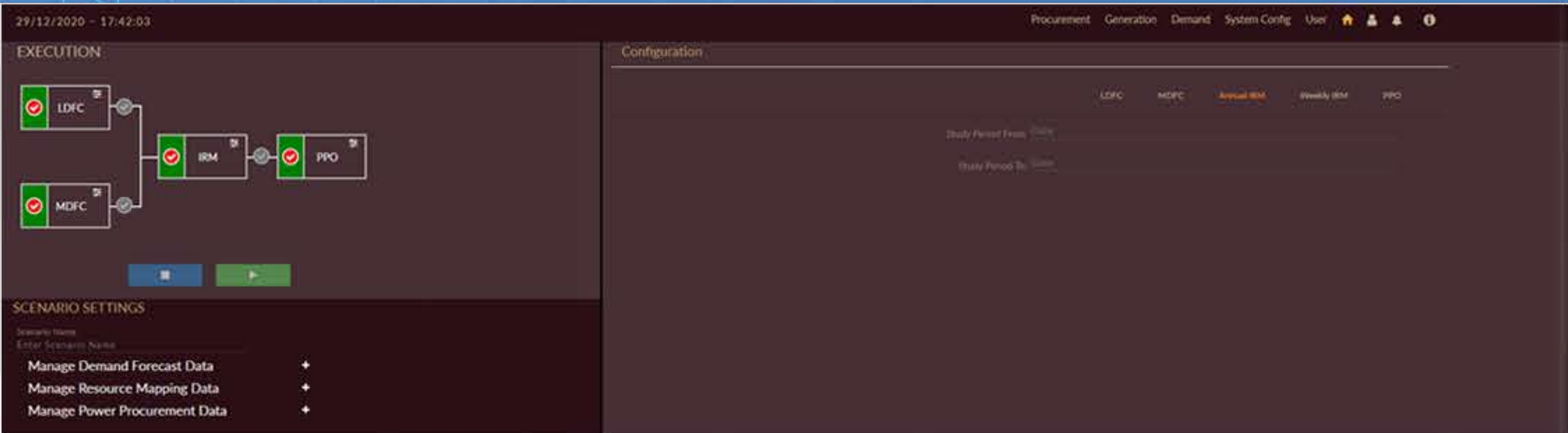
Capturing of Renewable Generation Variability and Uncertainty at Hourly Intervals to Increase the RE Integration



Provide Medium / Long-Term Generation Planning with Optimal Mix



A Robust Methodology for Making Better Power Procurement Decisions. User-friendly Scenario Building Feature to Solve Various Optimization Problems



Did You Know?

Does MiPSO™ provide forecast accuracy while executing load forecast?



Yes, MiPSO™ allows the user to configure various impacting drivers and other factors that addresses the variability and uncertainties associated with the load demand.

Is it possible to have different optimizations using MiPSO™?



You can arrive at different optimization results using the Procurement Optimization (PO) module of MiPSO such as:

- RE Maximization to meet the Renewable Purchase Obligation (RPO) targets
- Emission minimization to comply with statutory limits prescribed by the state electricity regulatory commissions
- Cost minimization for generation and procurement