

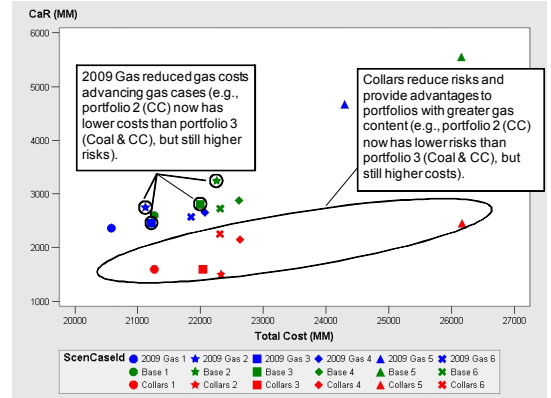
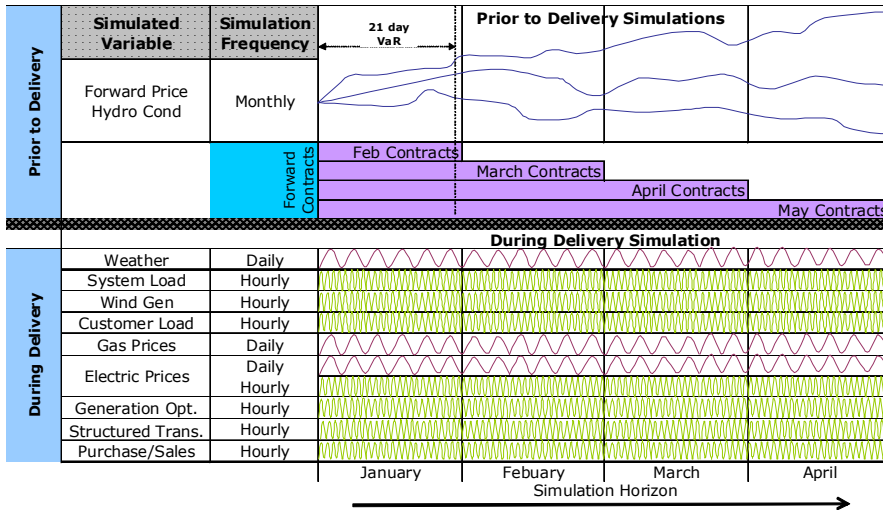
PowerSimm™ Planner

PowerSimm™ Planner provides a comprehensive solution for generation planning, DSM analysis, and renewable energy evaluation, incorporating risk inherent in market dynamics, physical operations, and environmental impacts.

PowerSimm™ Planner

PowerSimm™ Planner applications

- Deal analysis and structuring
- Evaluation of portfolio effects of DSM
- Cost versus risk tradeoff resource analysis
- Resource portfolio risk-adjusted optimization
- Assessment of renewable energy technologies
- Least cost resource planning for integrated utilities
- Simulation of mixed physical/financial transactions

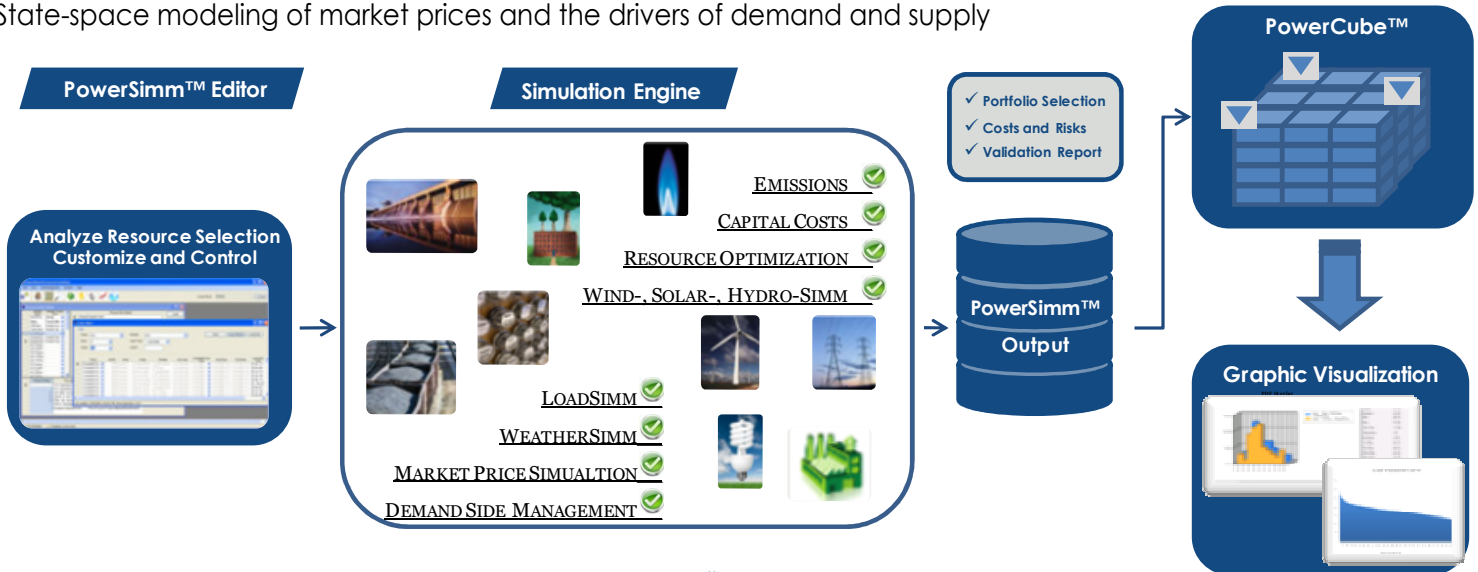


PowerSimm™ Planner offers superior modeling of uncertainty

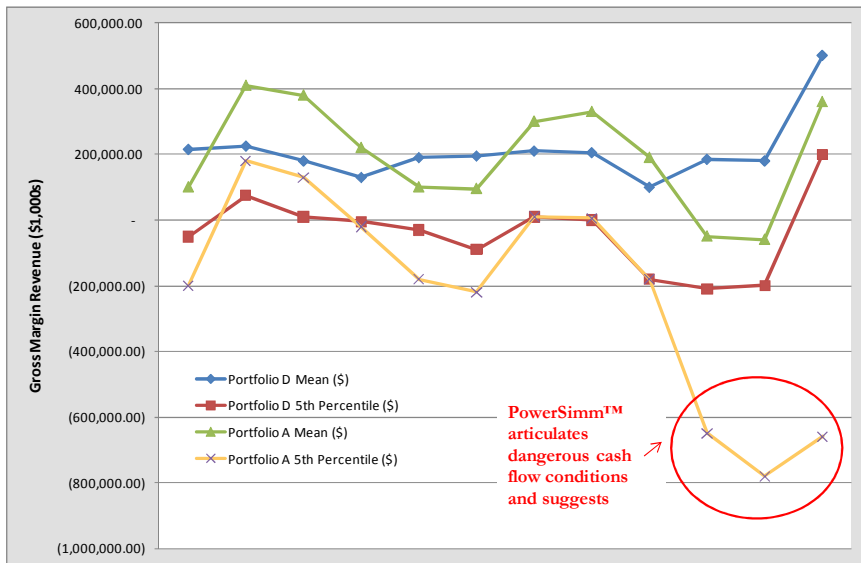
- Spot and forward prices
- Transmission availability
- Weather
- Demand
- Fuel costs
- Unit outages
- Emission costs
- Cost of capital
- Hydro and wind generation

PowerSimm™ Planner Architecture

State-space modeling of market prices and the drivers of demand and supply



PowerSimm™ Planner Resource Planning

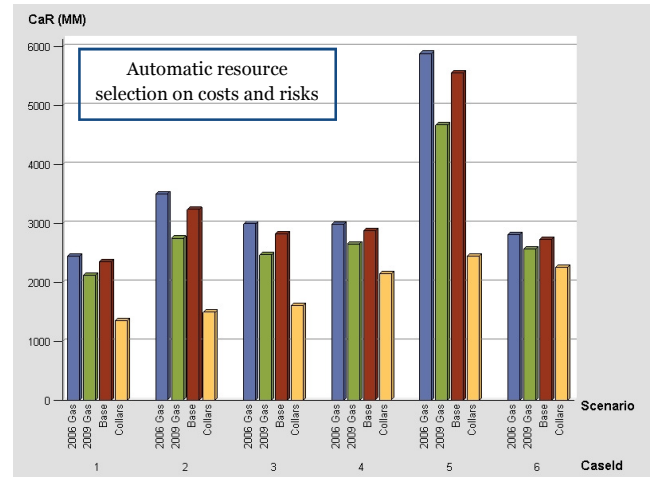


PowerSimm™ Planner addresses practical resource planning issues

- What is the least cost and least risk energy supply portfolio?
- Should I buy peaking energy, and/or generation rights or should I build?
- How much energy should I sell, for how long, and what is the risk associated with each deal?
- What is the optimal mix of hedge instruments?
- What is the risk benefit associated with a new energy efficiency measure or renewable energy technology?

PowerSimm™ Planner quantifies risks inherent in the resource planning process

- Captures the weather-demand-supply-price relationship
- Highlights the cost/risk tradeoffs of energy efficiency measures
- Quantifies and compares risks associated with multiple resource scenarios
- Determines risk reduction value of DSM and renewables
- Documents the prudence of your decisions according to the highest standards in the industry



PowerSimm™ Planner Reporting

PowerSimm™ Planner generates a comprehensive set of reports to support resource planning and portfolio management, including

- Net position reports
- Loss of load probability
- Incremental portfolio effects of adding plant, DSM, or contracts
- Retail reports for demand, cost of supply, and gross margin by customer category

PowerCube™ "The Intelligent Cube"

PowerCube™ is an OLAP cube of simulated data.

Users can slice and dice results, drill down, roll up and pivot to instantly evaluate new resource options, compare alternative scenarios and examine individual plant operations, inputs and assumptions. Powercube enables users to develop robust supply portfolios and identify joint least-cost / least-risk opportunities through custom views with a diagnostics perspective. Analysts can fly through side-by-side comparisons to discover changing cost patterns and portfolio impacts.

