

# ENELYTIX®

Redefining the Business of Energy Markets  
Modeling and Analytics



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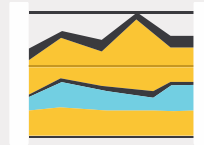
ENELYTIX is an energy systems and markets modeling and analytics environment addressing the needs of stakeholders at a level of rigor, speed and efficiency not attainable with competing tools.

We integrate a best-in-class power-system simulation engine with data services, scalable, distributed on-demand compute resources, and state-of-the-art business analytics tools.

## OUR GAME CHANGING TECHNOLOGY



**Productivity Gain**  
Accomplish 10 times more in 1 hour than your competition can in a day



**Self-served Business Intelligence** Define your own reports and explore simulation results dynamically



**Scalability**  
Run a virtually unlimited number of simulations and pay only for what you use



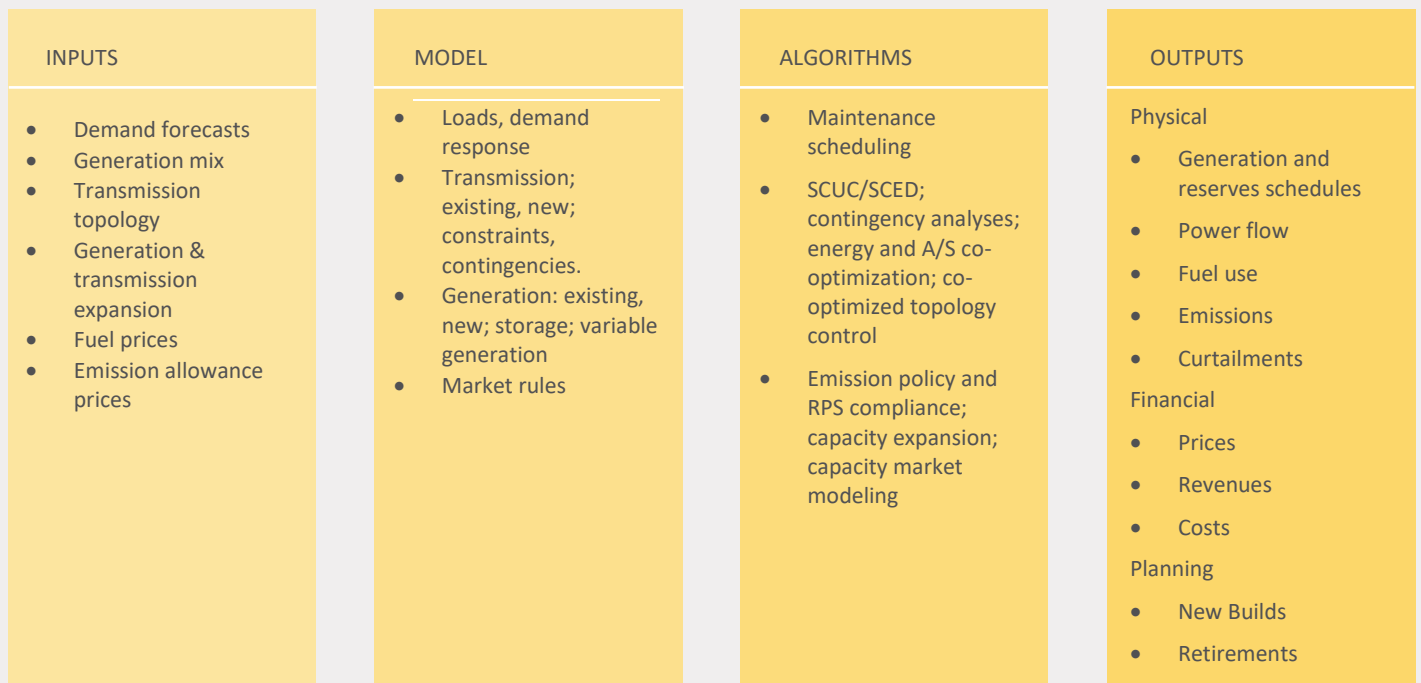
**PSO: Advanced Simulation Engine**  
Take advantage of modern simulation technology to meet all your energy modeling needs



## The ENELYTIX Engine (PSO)

The ENELYTIX Simulation Engine, PSO, is an advanced production-cost simulator that accurately captures the uncertainty and dynamics of planning decisions and their impact on the physics and economics of power system operations.

### SCHEMATICS OF THE ENELYTIX ENGINE



PSO structure provide users the versatility and flexibility to accurately replicate the rules and operations of structured power markets and vertically integrated, regulated power systems. Our customers use PSO to study renewable integration, perform asset valuations, forecast transmission and capacity expansion, explore alternative market and regulatory frameworks, evaluate fuel and emission constraints and structure other economic studies. That best fit their needs.

The user can incorporate contingency events, fuel, environmental, technological and contractual constraints, virtual bids and forecast errors. Truly MIP-based PSO algorithms support security-constrained unit commitment and economic dispatch (SCUC/SCED), generalized ancillary-services models and co-optimization and integrated stochastic formulations.



## The ENELYTIX SaaS

### Running Simulations as a Business

ENELYTIX is modeling environment organized as a Software as a Service (SaaS) implemented as a private cloud built on the Amazon Elastic Compute Cloud (EC2).

## ENELYTIX SERVICES

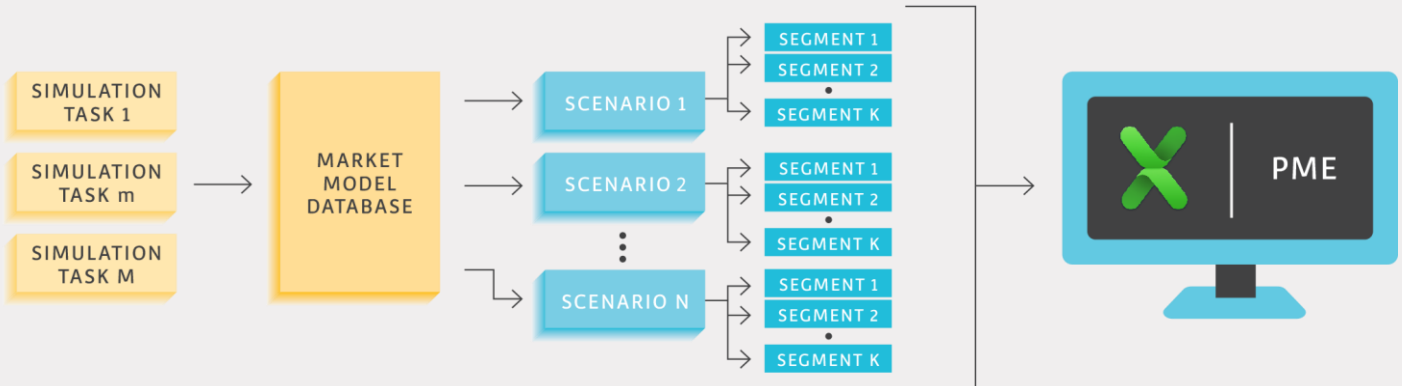
ENELYTIX's key services incorporate the full business cycle of a modeling project. ENELYTIX provides users with a one-click experience for power market simulation, generating necessary inputs, provisioning compute resources and post processing results. It comes embedded with a range of services for data security, user authentication, usage tracking, self-service business intelligence and data storage and archiving.

Project Simulation Requirements

Simulation Ready Data

Automatic scenario generation, parallelization, scalable on-demand machine provisioning, run management.

Reporting analytics, OLAP, visualization, drill-down, side-by-side analysis in Excel-based environment.



**Scalability and Usage Based Pricing.** ENELYTIX is designed to take full advantage of the underlying parallelizable structure of many power system simulations. Through intelligent partitioning, ENELYTIX completes most simulation within 1-2 hours and with the scalability of the cloud, any number of simulations can be managed simultaneously. Clients take advantage of ENELYTIX scalability through usage-based pricing, paying only for the compute time they use, not for individual licenses or computers.

**Simulator Ready Data.** Your ENELYTIX system can include "simulator ready" input data. These data are assembled from a combination of publicly available sources and commercial vendors. All data is verified by staff who have extensive expertise in data collection and modeling.

**Self-Served Business Intelligence.** ENELYTIX comes with Power Market Explorer™ (PME), an analytics service that gives users a complete picture of simulated energy markets/systems operations starting from yearly summaries to detailed, hourly and sub-hourly performance metrics. PME allows users to dynamically explore simulation results at an unparalleled level of detail. PME is intuitive, easy to use and embedded directly in Microsoft Excel.

**ENELYTIX System Security.** For each customer, ENELYTIX provides a private cloud environment within Amazon's cloud infrastructure. The system passes high security standards necessary for working with Critical Energy Infrastructure Information.

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