GAMS

➤ OPTIMIZATION ➤

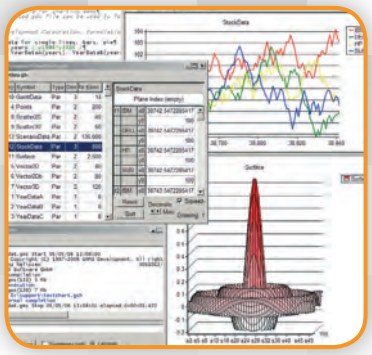
GENERAL ALGEBRAIC MODELING SYSTEM

High-Level Modeling

The General Algebraic Modeling System (GAMS) is a high-level modeling system for mathematical programming problems. GAMS is tailored for complex, large-scale modeling applications, and allows you to build large maintainable models that can be adapted quickly to new situations. Models are fully portable from one computer platform to another.

State-of-the-Art Solvers

GAMS incorporates all major commercial and academic state-of-the-art solution technologies for a broad range of problem types.



GAMS Integrated Developer Environment for editing, debugging, solving models, and viewing data.

PET – Energy Investment Modeling in Chile

Chile has a very diverse renewable energy potential with excellent conditions for generating solar, wind, geothermal and hydro power. Pushed by high prices for fossil fuels and favorable policies, the market for renewables is growing fast.

The Power Electricity Timetable (PET) Model written in GAMS supports energy investment decisions in Chile. It is a long-term capacity planning model for hydrothermal power systems that facilitates energy investment planning as well as operation decisions.

The model's capabilities include:

- Generation and Transmission Expansion Studies
- Analysis of Renewable Energy Integration
- Projections of Energy Prices
- Simulation and Analysis of the Electricity Market
- Risk Analysis and Optimization under Uncertainty

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