OPTIMIZATION

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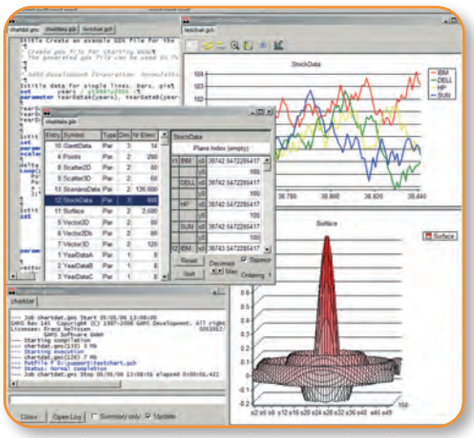
GAMS

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.

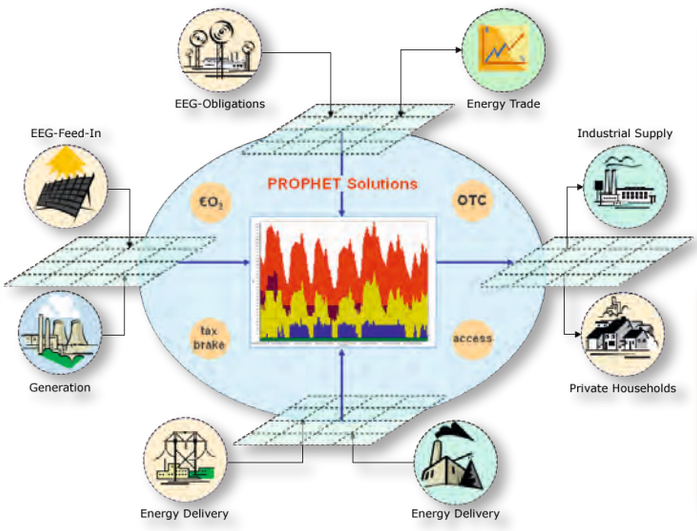
PROPHET Solutions – RPS

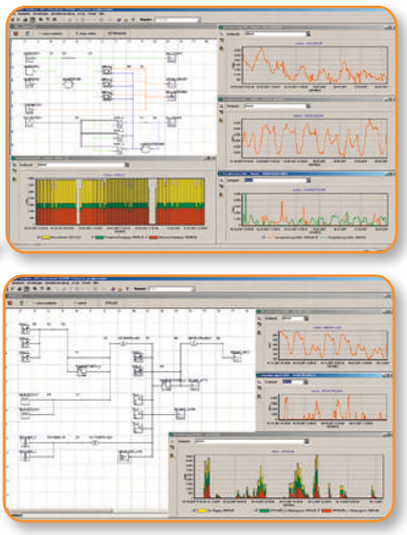
The optimization tool PROPHET Solutions – RPS developed by the Fraunhofer Application Center System Technology Ilmenau of IOSB Karlsruhe is designed for optimal planning in energy economics.

A graphical editor is the user interface to complex models in PROPHET Solutions – RPS and all relevant systems are displayed as graphical components. The modular design of these com-ponents ensures that existing models can be modified rapidly and efficiently to new specifications with little effort.

The key features of the system include:

- Integrated optimization of trade activities
- Operation of generation plants for electrical power, gas, heat and cooling energy and their cross brace
- Consideration of the complex characteristics of upper and lower grid levels
- Integration of stochastic programming methods to provide an adequate approach for generating possible scenarios and their evaluation (forthcoming)





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