GAMS

➤ OPTIMIZATION ➤

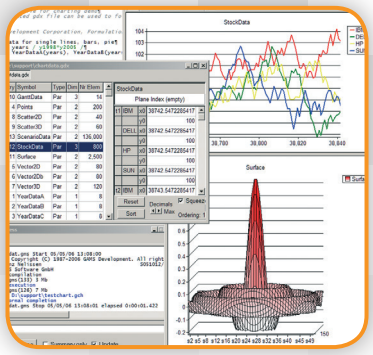
GENERAL ALGEBRAIC MODELING SYSTEM

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.

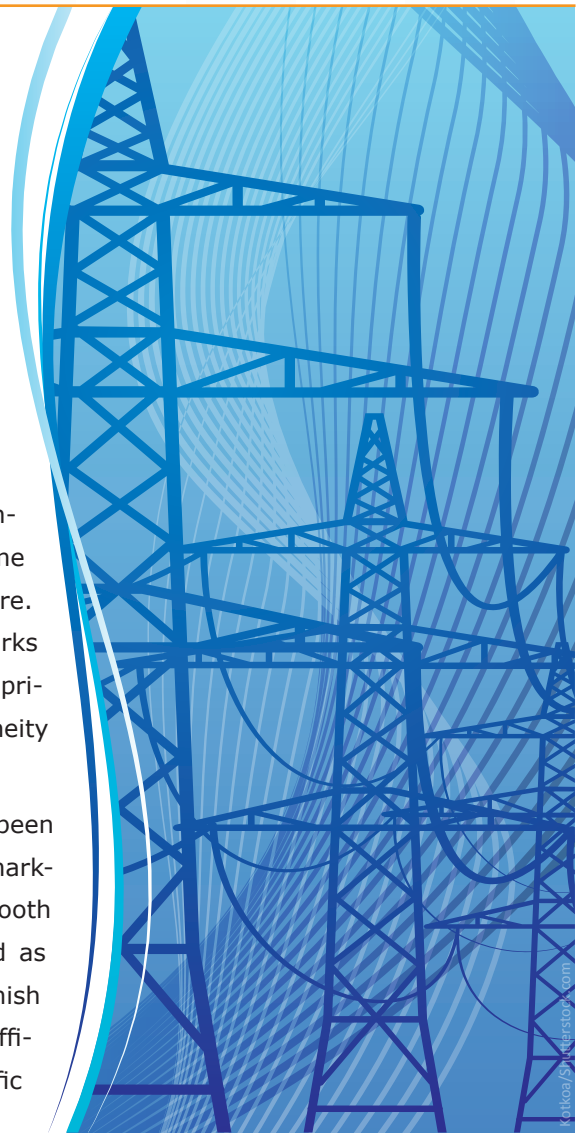
energiavirasto

Efficiency Benchmarking for the Finnish Energy Authority

Companies operating electricity networks are typically situated in a local monopoly market. In order to encourage reasonable electricity prices for the end user, this industry is therefore state-regulated in many countries.

The Finnish Energy Authority (energiavirasto) provides incentives for companies to improve their efficiency while at the same time promoting investment in modern and reliable infrastructure. It establishes general efficiency targets and relies on benchmarks to adequately compare network operators' cost efficiency. A primary benchmarking challenge is to capture the vast heterogeneity of this sector.

For more than 15 years the Finnish Energy Authority has been concerned with developing and improving efficiency benchmarking. Since 2012 the StoNED method (Stochastic Nonsmooth Envelopment of Data) modeled with GAMS has been applied as a benchmarking tool with great success. In GAMS, the Finnish Energy Authority has found a precise, flexible and practical efficiency benchmarking tool that is capable of capturing the specific complexity of the sector.



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