

OPTIMIZATION

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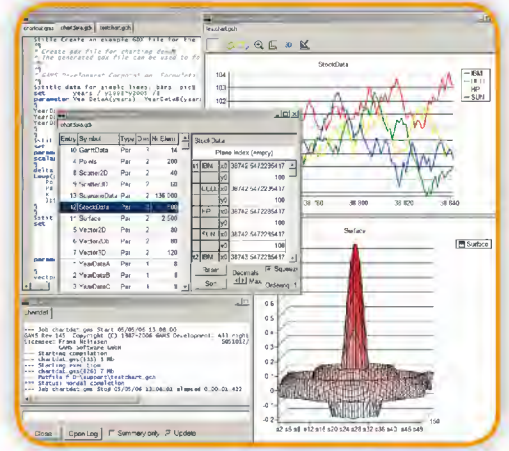
GAMS

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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.

DIMENSION - A Dispatch and Investment Model for European Electricity Markets

The DIMENSION model is a linear energy system model developed at the Institute of Energy Economics at the University of Cologne (EWI). It optimizes the future development of electricity generation capacities and their dispatch in Europe on an hourly basis by minimizing total costs.

Besides conventional power plants, combined heat and power plants and power storages, the model considers technologies that support the future high side flexibility. These technologies include demand

side management processes and virtual power storages consisting of electric vehicles. Moreover, DIMENSION provides a detailed modelling of renewable energy sources and -technologies.

Europe

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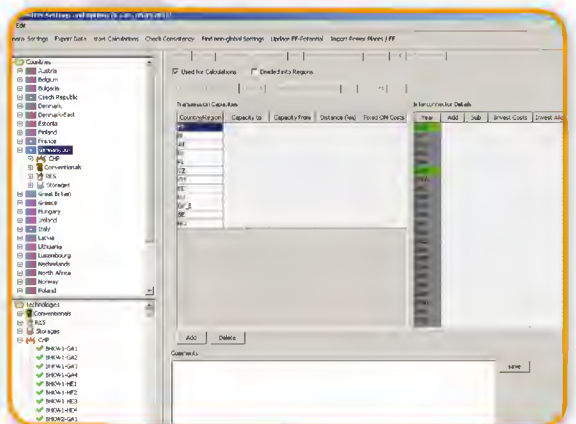
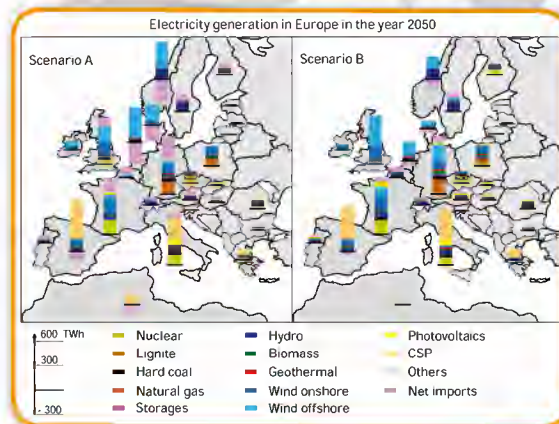
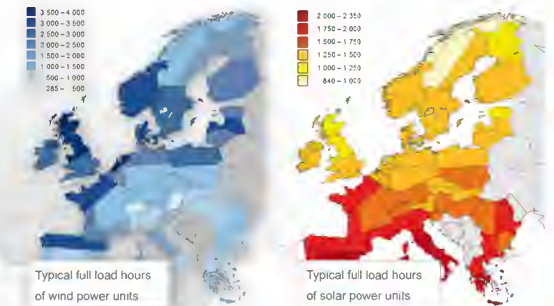
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Exploring energy markets - enhancing decisions.



For further information please contact Jan Richter (jan.richter@uni-koeln.de) or visit www.ewi.uni-koeln.de. For a technical description of the model see Richter, J., 2011: DIMENSION A Dispatch and Investment Model for European Electricity Markets, EWI Working Paper No. 11/03, Institute of Energy Economics at the University of Cologne.