

TU WIEN TECHNISCHE UNIVERSITÄT WIEN
Vienna University of Technology

Presentation of Electricity Market Model by TU Vienna

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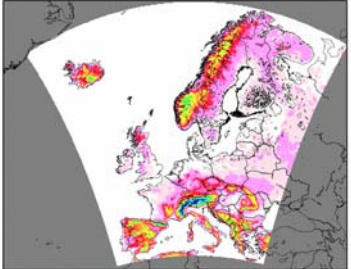
HiREPS Modell

Methodological Approach Ansatz:
Testing of the future power system with the weather of the past (hydro, solar, wind).
Hourly unit commitment optimization and capacity expansion planning

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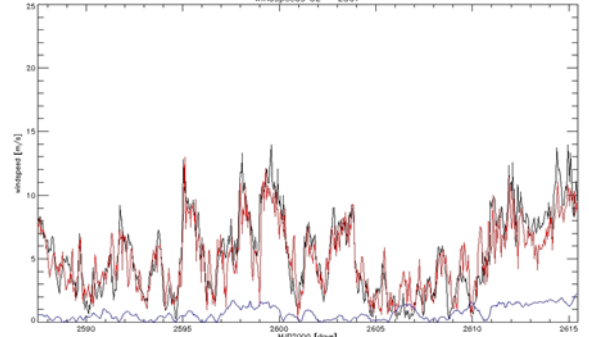
Solar und wind data:
Data of numerical weather model → 10 km spatial resolution, hourly data, for 2001-2010



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Test:
Numerical weather model (black) vs 100m wind mast in Karlsruhe (rot)



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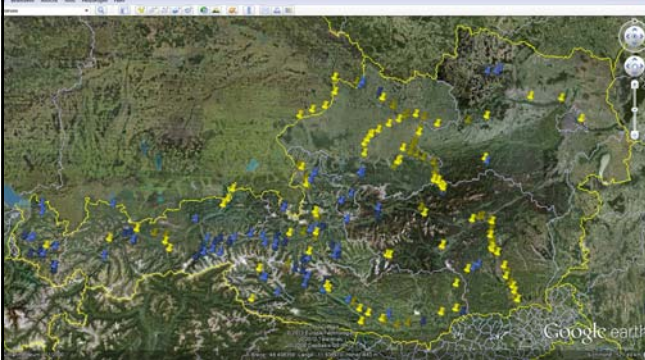
HiREPS

Detailed hourly unit commitment optimization and simulation:

- hydro power
- thermal power
- wind und solar
- Load flow
- Define: electromobility

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