Projections in practise
TFEIP Meeting 2012

Seven2one Informationssysteme GmbH | www.seven2one.de
PlaNet for Projections

- PlaNet = „Planning Network“
- Linear Simulation of complex systems
- Calculates:
  - Energy balances
  - Emissions
  - Costs (including technical lifetime and learning curves)
- Scenario management
Reference Projects

- Greenpeace Energy Revolution Scenarios
- German Energy Lead Scenarios
- German Energy and Emission System
- Expansion strategies for renewables
- Regional climate protection strategies
Modular System

Model Editor
- Model topology
- Linear equation system

Data Management
- Enter data
- Data mapping
- Visualise results
- Manage Scenarios

Reports and Analyses
- Full integration into MS Excel
An RES for all sectors

RES = Reference Energy System
Place / Transition Net to describe distributed systems
All sectors are interrelated
All sectors use the same assumptions
Population and GDP growth
Prices
Etc.

Experts can develop „their“ sector separately
Hierarchical levels - stratification
Hierarchical levels - simplification
How to create a model in PlaNet
Adding equations
Data management with time series
Scenario management

Reference scenario – No changes

Technological measures, but no socio-economic changes

Technological and socio-economic changes
Benefits for environmental agencies

- Easy to use and quick to learn
  - 2 day training, 1 – 2 weeks by the book
- Completely transparent
  - Graphical topology
  - Documentation possibilities for equations, time series and values
- Supports teamwork
  - Multi-user environment
  - Each expert can run his submodel within the whole model
- Very flexible and adjustable
  - No restriction in time, time resolution, geography and detail
Problems

- Estimating energy demand is necessary, including e.g.:
  - Future penetration of energy efficient technologies (housing insulation, consumer products)
  - Socio-economic development

- Complexity of linear modeling should not be underestimated

- Software does not account for content related errors
What we offer

- PlaNet as modeling software
- Basic model to start with
- Step-by-step guidance manual and training study
- Webinars (internet tutorials)

Possible in the future:
- Developing an advanced model in close cooperation
- Software adjustments to better meet your needs
Thank you for your attention!

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