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Requirements for energy scenario studies in public and political debate

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Requirements

- scientific validity
- scientific independency of authors/modellers
- usefulness for the client
- **transparency** (of data and assumptions, models, role of client and others involved, argumentation)

Challenges

- Identify appropriate **measure of transparency** (traceability vs. reproducibility)
- Documentation and communication **addressing different addresses**
- **Transparency of models and data** in practice limited by licences, economic setting etc.

Some possible measures

- Establish **binding standards for scientific policy advice**
- **Peer review** for scientific assessment reports
- **Advisory boards** for policy advice projects
- Use **open source models** in policy advice (?)

Background

- Statement of the German academies of science on the issue, prepared in project “Future Energy Systems”
- My PhD Thesis: “Modellierte Zukunft – Energieszenarien in der wissenschaftlichen Politikberatung”, Transcript, Mai 2015