28th IETS Executive Committee Meeting
Workshop on "Available Industrial Roadmaps"

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Danish Industrial Roadmaps
Status – mappings

Mapping of temperature levels

Status – planning models

• Times
• EnergyPlan
• Balmorel
Status – Technology Catalogue

- Five catalogues providing input data for scenarios
- Used as a common basis in Denmark
- Catalogue for industrial energy technology recently initiated
Scenario – Vision 2050

- Danish Society of Engineers
- Scenarios for 100 % renewable energy system 2050

Mathiesen et al, IDAs Energivision 2050
Scenario tool online

http://klimaftalen.tokni.com/
Bühler et al, (2019), Potentials for the electrification of industrial processes in Denmark, accepted for ECOS 2019
Danish Industry Development towards 2050

- Political commitment
  - Independency of fossil fuels in 2050

- Measures
  - Energy savings
  - Integration of district heating and cooling and excess heat utilization
  - Integration of heat pumps
  - Electrification
  - Conversion to biofuels
  - Conversion to "green" gas