«Klimatall»

A short presentation of «Klimatall»

- The elements in the system
- The aim of the system
- Input to the system
- Output from the system

«Klimatall», the system

- A system for cost analysis
- The system is able to analyze on several pollutants

- Web-application on top of a database
  - accessible through an internet browser
- Db contains measures
  - for reducing emissions of air pollutants

The aim of the system

- Make analysis of policy and measures
  - in order to prevent emission to air
- Possible emission reductions and their costs

- A tool for advisers and governmental policymakers

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Functionalities of the system

- A multi-user system, with different "user-rights"
- Preserves the "history"
- Reuse of data
- Shortens the way to new analyses
- Based on general accepted key-data
- Uniform methodology
- Comparable and consistent results

Accsess to «Klimatall»

- Presently access is trough our internal access control
- All users needs username and password form Miljødirektoratet
- Ensures data security and data integrity

- Larger scale sharing of the system fasces several challenges

Input to the system

Need to have:

- Emission Inventory and projections
  - GHG's and acidic-components
- Data on measures

Nice to have:

- Factors for economic valuation of external health costs
- Emission factors for energy consumption

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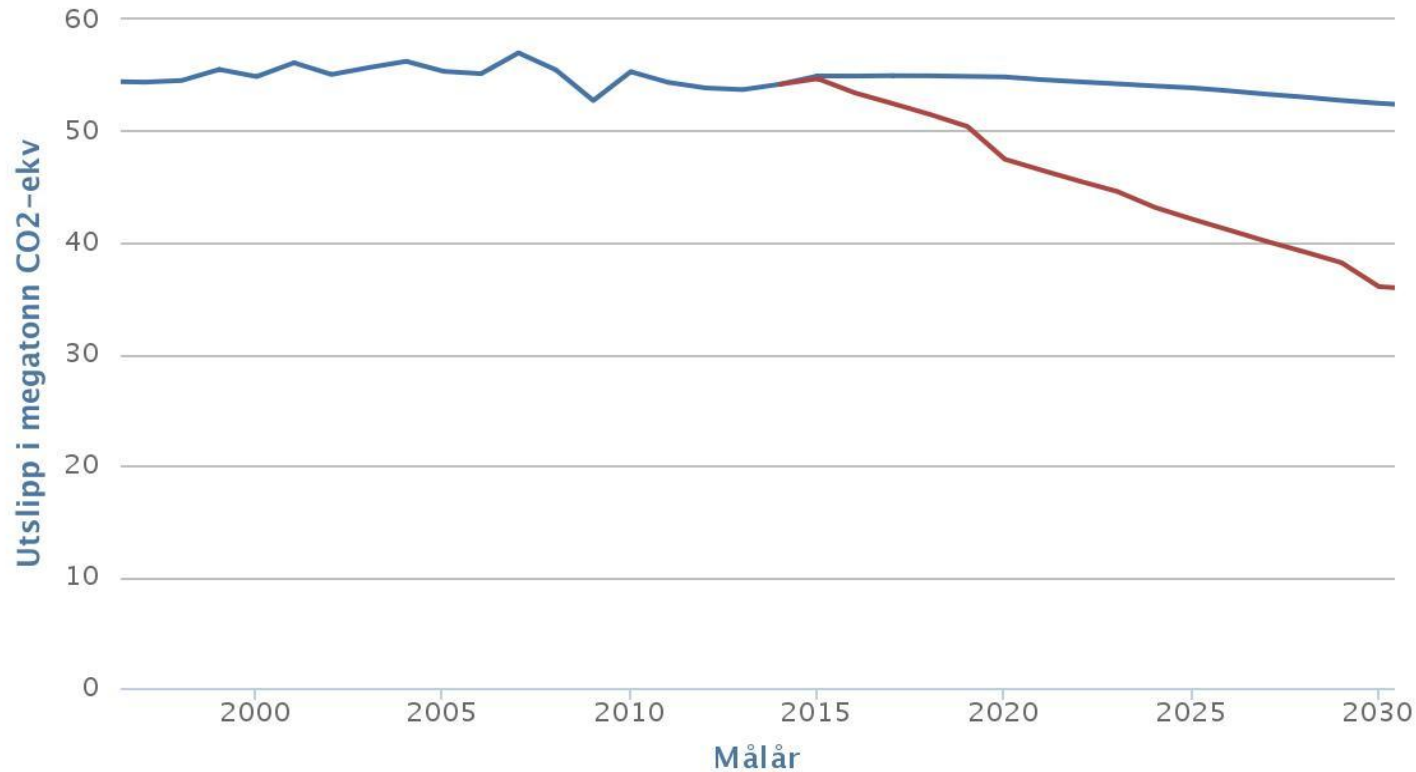DIREKTORATET

Input to measures

- Data on costs
  - investments, maintenance, energy costs
- Data on emission reductions
  - one or several components
  - in one or several sectors
- Data on energy use on energy carriers

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Scenarios (Analysis)

- An aggregate of different measures
- One component, or multicomponent

- Cost functions
- Emission scenario
- Energy balance

Effekten av scenario mot referansebanen CLS

Endring i energiforbruk som følge av scenario
Periode: 2015 – 2040

Elektrisitet	
Biodiesel – 2 generasjon	
Vegetabilsk olje	
Pellets	
Bio–jetfuel	
Bioetanol – 2 generasjon	
Biogass – høygradig	
LNG	
Biodiesel – 1 generasjon	
Treavfall (tørt)	
Fjernvarme	
Fyrgass	
Tungolje	
Treflis	
Naturgass, sokkel	
Kull	
Biogass – lavgradig	
LPG	
Jet fuel	
Naturgass, land	
Lett fyringsolje	
Bensin	
Marin gassolje	
Autodiesel	

−500   −400   −300   −200   −100   0   100   200

TWh

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