GLOBE EU Earth Overshoot Day, 22 Sept.

„ON THE ROAD TO PARIS“

Partnerships: including non-state and sub-national actors in the Paris climate negotiations

North Rhine-Westphalia‘s Climate Protection Policy
“Energy Region No. 1” in Germany & Europe

- 17.8 million inhabitants (21.7% of Germany)
- 34,000 km² in area (NDL 41,500 km²)
- GDP: 599.8 billion € (Germany No. 1, worldwide No. 19)
- 150 million consumers within a radius of 500 km

Energy sector in NRW (2012)
- 28% of German electricity production (179.4 TWh)
- 24% of German electricity consumption (146.1 TWh)
- 44,260 MW\textsubscript{el} installed power generation capacity
- No nuclear energy
- 28.5% of electricity generation from renewable energies (2014 - 14.9 TWh, factor 4 since 2005)
- 200,000 employees in energy sector (of whom 28,000 are in the area of renewable energies)

Source: EnergieDaten.NRW 2013
Electricity Generation by Source 2011

NRW

- Hard Coal: 47%
- Lignite: 11%
- Gas / Oil: 5%
- Nuclear: 8%
- Renewables: 16%
- Other: 4%

Total: 179.4 TWh

Germany

- Hard Coal: 23%
- Lignite: 13%
- Gas / Oil: 16%
- Nuclear: 4%
- Renewables: 18%
- Other: 26%

Total: 629.8 TWh

Source: EnergieDaten.NRW 2013
Renewables in NRW 2012

Renewable Power Generation
- Total: 14.9 TWh
- Wind Power: 36%
- Biomass: 20%
- Photovoltaics: 4%
- Hydro Power: 5%
- Mine Gas: 4%

Renewable Heat Generation
- Total: 16.1 TWh
- Biomass solid: 61%
- Biogas: 6%
- Other Biomass: 21%
- Solar heating: 4%
- Near-surface geothermal Energy: 8%

Source: EnergieDaten.NRW 2013
GHG-Emissions in NRW 2012

- **Energy**: 47.87%
- **Industry**: 25.01%
- **Buildings, Trade and Commerce**: 10.53%
- **Traffic**: 11.21%
- **Agriculture, Forestry**: 2.54%

Source: LANUV 2014
North Rhine-Westphalia’s Climate Policy
Climate Protection Policy – three elements:

- Climate Protection Starting Programme
- Climate Protection Act
- Climate Protection Plan
Climate Protection Starting Programme
(launched October 2011, total volume of more than 100 million Euros)

- efficiency fund for housing stock
- consulting for local communities
- promotion of wind energy
- efficiency credit for SMEs
- climate neutral administration
- promotion of combined heat & power generation
- consulting for local communities

Climate Protection Starting Programme (selection of measures)
Climate Protection Act:
Launched in January 2013

Goals

- Reduction of GHG emissions in North Rhine-Westphalia: at least **25% by 2020**, at least **80% by 2050** (vs. 1990) (national -40%/-80-95%)
- Expansion of renewable energies, resource and energy efficiency, energy conservation
- Limit negative climate change impacts through adaptation measures

Goals to be achieved through the drafting of a Climate Protection Plan
Climate Protection Plan: Participatory concept

- Full participation of stakeholders from different societal groups and local authority associations in a wide-scale dialogue and participation process
- **Goals**: avoid/minimize conflicts, achieve better results, secure support for implementation, establish new forms of cooperation, dissolve contrasts between economy and ecology
Participation Process: The Conception Phase

- **Composition of working groups**
  About 30 experts from environment-/conservation organisations, trade associations, private sector, energy sector, industry, trade unions, chambers of commerce, local associations, academia, consumer organisations, etc.

- **Objective**
  Professional development of strategies (intermediate and long term) and measures (short-term) to achieve the climate protection goals in NRW

The working groups proposed more than 360 climate change mitigation and adaptation measures
Showcase-NRW: KlimaExpo

http://www.klimaexpo-nrw.de/en/klimaexponrw/
Subnational governments are partnering to advance a Memorandum of Understanding (MOU) on Subnational Global Climate Leadership.

Acre (Brasilia); Baja California (Mexico); British Columbia (Kanada); California (USA); Catalonia (Spain); Rhône-Alpes (France) and Wales and Scotland in the UK and North Rhine-Westphalia
Thank you for your attention!