INFORSE-Europe Activities

by

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INFORSE-Europe

INFORSE-Europe
Sustainable Energy NGO Seminar
October 6-8, 2010
Centre for Alternative Technologies (CAT), Wales, UK

http://www.inforse.org/europe/seminar2010_CAT.htm
Right Now
October
2010

75 Organisations from 35 European Countries
Current Activities

- EU policies
- Sustainable Energy Visions
- Low Carbon Society Network
- School Activities - SPARE
- DIERET - online education
- Exhibitions (Belarus, Romania, Latvia)
- Climate Negotiations
- Seminars
- Projects etc.
Who is Working?

- 2-3 employed + 1-2 trainees in Secretariat
- 1 trainee in Brussels
- Coordinator in Slovakia

- INFORSE-Europe supports activities in Belarus, Estonia, Latvia, Lithuania, France, Bulgaria, Romania, Portugal, (PL)
- Active board
EU Policy

• New EU energy policies, Renewable energy directive, Ecodesign, energy efficiency action plan/strategy, energy poverty, structural funds, budget, industrial emissions, energy service directive, energy performance of buildings directive, development policy, neighbour-policy

• Website & Sustainable Energy News

• Attend meetings in Brussels (mainly trainees)

• Organise seminars (was in April + EUSEW)

• Answer consultations

• Joint proposals with other NGOs

• National activities BG, DK, F, H, Ro, SK, (PL)
Sustainable Energy Visions

- New vision for Hungary, to be published in 2011
- Vision for Estonia, under development
- Vision updates for Belarus, Latvia, Lithuania, Bulgaria
- Vision for Denmark, economic updates
- EU vision, update
- Sustainable energy visions - roadshow
- Posters for exhibitions etc.
School Activities

• Database of education materials online

• SPARE activities:
  • Portugal, re-initiating
  • Bulgaria – support large project
  • (Romania - larger project running)
  • General Promotion: Web School Resources Sustainable Energy News etc.
Climate Negotiations

• Follow Negotiations in Sustainable Energy News
• Participate in COP16 in Mexico
• Involved in project to support other INFORSE regions (Asia, Africa)
• (Climate Country Report CEE – SEE ?)
Projects

- Belarus - Baltic - Nordic project (INFORSE leader): visions, exhibitions, tours DK-S & Lithuania
- South East European NGO Energy Project (Green Action leader): training etc.
- Success Database
- Collection of best practices of regions (INTERREG project - Nord Pas de Calais)
- Update website, publish Sustainable Energy News
- New project proposals (South East Europe, Cameroon)
The INFORSE Vision

- Phase out fossil fuel and nuclear power
- Provide everybody with basic energy needs, also the 1 billion that lack basic clean energy for cooking and light today
Vision for Denmark (OVE) 2030

- Strong growth in windpower, sust. biomass
- Reduce specific building consumption 39% to '30
- Reduce specific electricity use, industry 42% to '30
- Flexible energy: district heating, heat pumps, electric cars and hydrogen
- Sustainable transport system, 80% more efficient
- No new international power lines
Energyvision2030:

DK CO$_2$ Emissions from Energy

CO$_2$ emissions from energy consumption, million tons CO$_2$/år

- In total 2 t/capita per year in average 2010 – 2049 = sustainable level
Energyvision2030: Danish Renewable Energy Supply

Renewable Energy Supply (PJ)

- Solar PV
- Solar heat
- Wave Power
- Wind offshore
- Wind, land
- Geothermal
- Biogas
- Bio-fuel, liquid
- Energy Forest
- Solid biomass
Energyvision2030: Energy Efficiency

Reduction of Final Energy Use

- **Households**
- **Service sectors**
- **Agriculture, fishery**
- **Industry**
- **Transport**

- **Fuel incl. H2**
- **District heating etc.**
- **Electricity**
Energyvision2030:

District Heating = 70% of Heat

District Heat Supply, Denmark (PJ)
Energyvision 2030:

DK System in Balance in 2030

Hourly balances made with Energy Plan programme

1% unused windpower

Existing import/export lines

RES12 = Wind

RE34 = wave+PV

CHP incl. geothermal
Energyvision2030 & Basis: Costs in 2030

Costs calculated based on Danish national price forecasts, standard and high fossil fuel prices.

Costs of Danish energy system 2030, 3% interest rate

- Energyvision 10000MW wind
- Energyvision 12000MW wind
- Basis-2030
- Basis-2030, high energy prices

- CO2-costs
- El. & H2-transport
- Energy efficiency investments
- Loss on el.import/exp
- Biomass
- Fossil energy
- O&M
- Investments, interests
Costs with High Interest Rate (6%)
Energyvision2030:
7 Ways to 100% Renewable Energy

Energy supply costs for Denmark, Energyvision2030, 3% interest

- **Import/export**
- **Costs in DKK**
- **Biomass (unit: 10 PJ)**
- **Unused windpower (%)**