Renewables in Heating & Cooling – a success story from Upper Austria

Gerhard Dell
Energy Commissioner of Upper Austria
Managing Director, Upper Austria Energy Agency
www.esv-en.at
The region of Upper Austria
Das Bundesland Oberösterreich

Capital: Linz
Population: 1.45 million
Area: 12,000 km²
Economic activity: 25% of the Austrian industrial exports
The Regional Energy Agency of Upper Austria
OÖ Energiesparverband

promotes energy efficiency and renewable energy

provides services to households, businesses & municipalities

develops & implements policies & manages programmes
Share of renewable energy in different sectors
Upper Austria

- Electricity: 75%
- Space heating: 61%
- Total heating: 46%
- Primary energy consumption: 32%
- Mobility: 10%

- Hydro: 34%
- Clean biomass: 50%
- Other RES: 16%
Development of energy consumption by energy sources

Index 2005 = 100%

- Renewables: 125%
- Oil: 87%
- Gas: 108%
- Fossil fuels: 103%

Years: 2005 to 2016
Upper Austria's policy approach: Carrots, sticks and tambourines
Our approach

- Funding programmes for R & D
- Funding programmes for investments
- Information, communication and networking
- Emission and efficiency standards for buildings and heating systems
Heating in Upper Austria

% of all dwellings

- Biomass
- Heating oil
- Natural gas
- District heating
- Heat pumps
- Electricity
- Coal
Tambourine: Strategic information and communication

- 10,000 face-to-face energy advice sessions
- tradeshow participations
- information folders
- media campaigns, website, social media, newsletters
- a wide range of information events for different target groups
- about 30 training courses per year in our Energy Academy
The Cleantech-Cluster Energy (CTC)

The network of energy & environmental technology companies in Upper Austria
140 energy technology partner companies

Information
Innovation
Growth

Innovation across the value chain
F&E Platform NEFI: New Energy for Industry

- Development and demonstration of innovative energy technologies for manufacturing companies in the next 8 years
- Focus regions: Upper Austria and Styria
- 4 operating organisations: AIT, OÖ Energiesparverband, Montanuniversität Leoben, BizUp
- Consortia with more than 80 companies, 14 research and 5 institutional partners
Energy efficiency and renewable energy
Investments in Upper Austria

- **Energy efficiency technologies, e.g. insulation, efficient windows, LEDs**: 30%
- **Energy efficiency investments in industrial**
- **Renewable energy**: 40%

**Investments in energy efficiency:**
- 4.2 billion Euro/year in Austria
- 1.5 billion/year in **Upper Austria**

**Investments in renewable energy:**
- 2.8 billion Euro/year in Austria
- 0.6 billion/year in **Upper Austria**

Quelle: LEB, WIFO
Greenhouse gas emissions from buildings
Upper Austria

Source: UBA
The vision:
European leader in the energy transition

- Competitiveness and quality of life through decarbonisation (and not: despite of)
- Decarbonisation energy used for buildings and manufacturing
- Market leadership in innovative energy and building products
- Innovation ecosystem
World Sustainable Energy Days 2019: 27 February - 1 March

International conference with 600+ participants from over 50 countries
- European Energy Efficiency Conference
- European Pellet Conference
- Industrial Energy Efficiency Conference
- Young Energy Efficiency Researchers Conference
- Trade Show with 900+ exhibitors

www.wsed.at