

# Energy Future Tour

across the seven regions of the European Region Danube-Vltava

**July, 3<sup>rd</sup> – 14<sup>th</sup> 2016**

**Knowledge Platform  
„Renewable Energy and Energy Efficiency“**

## The idea behind Energy Future Tour...

**Motto:** Explore the region | Develop a vision |  
Get involved with sustainable energy  
solutions

**Who:** An international group of students and  
young professionals of all regions of ERDV,  
interested in energy issues

**What:** Guided tour of 12 days duration: excursions  
to lighthouse projects for renewable energy  
generation and energy efficiency, inspiring  
lectures of energy experts, visits of  
innovative companies, interactive workshops



## Energy Future Tour of ERDV

- ▶ July, 3<sup>rd</sup> to 14<sup>th</sup> 2016
- ▶ Tour across all seven regions of the Europe Region Danube-Vltava:

Lower Austria – Upper Austria –  
Lower Bavaria – Upper  
Palatinate – Region of Pilsen –  
South Bohemia - Vysočina



## List of participants

- ▶ 14 participants of the seven regions from e.g.
  - ▶ Medium technical school for industry
  - ▶ EVN
  - ▶ Siemens AG
  - ▶ Universities of Applied Sciences
  - ▶ Universities
  - ▶ Faculty of Agriculture

Participants of the Energy Future Tour at the Nuclear Power Plant Zwentendorf, Lower Austria, that never went into operation



## ERDV Energy Future Tour as a joint activity....

- ▶ ....about 145 persons in all seven regions were involved in the tour:
  - ▶ As tour guides presenting their lighthouse projects
  - ▶ As energy experts giving lectures and interviews
  - ▶ As political representatives welcoming the participants in their regions
  - ▶ As regional contact points supporting in organizational issues (accommodation, meals etc.)
  - ▶ As members of the „steering team“

## Start of the Tour at Landhaus St. Pölten (Lower Austria)



## E-mobility

- ▶ E-car-trip (Lower Austria)
- ▶ ELLA AG: implementation of charging stations in Austria with public participation (Lower Austria)



## Solar energy

- ▶ Fronius: Guided factory tour - research and production area of solar energy products especially photovoltaics (Upper Austria)



- ▶ ASiC - Austria Solar Innovation Center (Upper Austria)



## Hydropower

- ▶ Visit of the exhibition of „Haus am Strom“ and the hydropower plant Jochenstein (Germany, Lower Bavaria)
- ▶ Guided tour of the hydropower plant Dalešice (Czech Republic, Vysocina)



## Wind energy and biomass

- ▶ WEB Windenergie AG - an Austrian energy producing company specialized in wind power, but also active in solar energy and hydropower (Lower Austria)
- ▶ Visit of an "energy self-sufficient" grain producing company named Hofstätter with a small hydropower plant, photovoltaics, biomass and solar heat (Lower Austria)



## Biogas plants / microbiological processes

- ▶ Bio natural gas plant in Kallmünz-Eich (Germany, Upper Palatinate)
- ▶ Bio gas and microbiological plant in Trebon (Czech Republic, South Bohemia)



## Energy storage systems

- ▶ Visit of the innovation center of Tech Base with a focus on storage systems, e.g. ice storage systems (Germany, Upper Palatinate)
- ▶ Demonstration site for storage systems in the Technology Center Energy at the University of Applied Sciences Landshut (Germany, Lower Bavaria)



## Nuclear energy

- ▶ Guided Tour at the Austrian nuclear power plant Zwentendorf that never went into operation (Lower Austria)
- ▶ Visit of the nuclear power plant Dukovany (Czech Republic, Vysocina)



## Companies and university facilities

### Companies in the energy field

- ▶ Energy Supplier Plzeňská teplárenská a.s.
- ▶ Incineration plant Chotíkov
- ▶ Technology and Science Center in Trebon

### University facilities

- ▶ University of Applied Sciences Upper Austria, Wels
- ▶ European Campus Rottal-Inn, Pfarrkirchen
- ▶ Ostbayerische Technische Hochschule Regensburg (OTH Regensburg)



## Final Workshop

- ▶ Feedback session and roundtable discussion
- ▶ Key questions: ERDV energy situation – now and in 2100:
  - ▶ What is the current energy situation in the seven regions of the European Region Danube-Vltava?
  - ▶ Considering the current situation, how could the Energy Future look like?



## Final workshop results – current situation

### ▶ **Austria:**

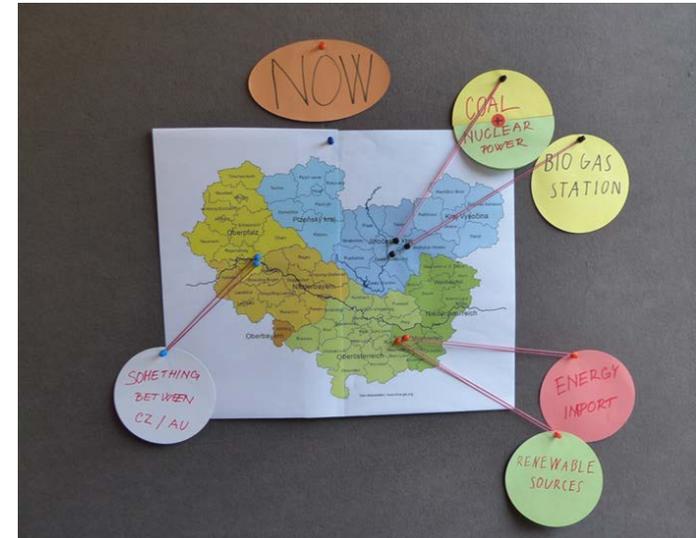
- ▶ Focus on renewable resources especially water, but also solar energy and wind
- ▶ No nuclear power plants
- ▶ E-mobility
- ▶ Energy import is necessary

### ▶ **Germany:**

- ▶ Focus is still on nuclear energy (48 %), but nuclear phaseout is initiated
- ▶ Renewable resources are important, especially solar energy

### ▶ **Czech:**

- ▶ Focus is on nuclear energy and coal
- ▶ Nearly no usage of renewable resources, some biogas plants, rarely solar energy, wind and water



## Final Workshop results – future situation

- ▶ **Austria and Germany are similar**
  - ▶ No nuclear energy in Austria, no or less nuclear energy in Germany (nuclear fusion)
  - ▶ Increase of renewable energy, especially PV and wind
  - ▶ E-Mobility, Power to Gas
  - ▶ Energy self-sufficient system
- ▶ **Czech**
  - ▶ Increase of nuclear energy → nuclear fusion
  - ▶ Utilization of nuclear waste
  - ▶ Decrease of coal
  - ▶ Increase of renewable energy, especially wind, biogas, water (pump storage)
- ▶ **ERDV common grounds**
  - ▶ Smart grids, smart home systems, storage systems
  - ▶ Reduction of energy consumption and increase of energy efficiency e.g. in buildings
  - ▶ Importance of awareness raising measures



## Feedback of the participants

Very informative and impressive excursion targets. Great experience and great tour group!  
(Germany)

When we were travelling through Austria by bus, every Czech participant was stuck on the glass of the window because we have never seen so many and so big wind power plants in a row in our country. (Czech Republic)

Great possibility to get to know cultural diversities and different technologies of energy supply. (Austria)

## Output of the Energy Future Tour

- ▶ Energy Future Tour Film: long and short version (in Czech, English and German)
- ▶ Web blog on <http://www.evropskyregion.cz/de/>
- ▶ Web and facebook infos
- ▶ Photos
- ▶ Press articles and press releases



## Further information

### Website

- ▶ <http://www.evropskyregion.cz/de/uber-uns/projekte.html>
- ▶ <http://www.enu.at/energy-future-tour/energy-future-tour-der-europaregion-donau-moldau-edm>

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