CEP-REC Introduction of Regional Energy Concepts Vienna, 2015

Csaba Vaszkó, WWF



Central Europe Programme Introduction of Regional Energy Concepts



Central Europe Programme 2007-2013 invested €231 million to provide funding to transnational cooperation projects involving public and private organizations from Austria, the Czech Republic, Germany, Hungary, Italy, Poland, the Slovak Republic, Slovenia and Ukraine.

Timeframe: March 2012 – November 2014 Budget: 2.164.900€ Lead partner: Energie- & Umweltzentrum Allgäu (eza!)





Challenges

To address the lacking regional level in energy planning







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Challenges The lacking regional level in energy planning

The goal was to identify, develop and test regional energy concepts through:

- establish standards for these regional energy concepts
- help individual regions create their own concepts
- **quantifying energy demand** and supply at the regional level
- support of pilot regions by exchanging good practices
- Making tools and standards available **online** for interested regions
- promotion of RES at the regional level





CEP-REC 9 pilot regions Diverse consortium (capacities, experience, staff)







Introduction of Regional Energy Concepts Diverse partnership







The main phases of the project Work Package structure (>150 reports)







Regional Energy Concepts Work packages

The goal of the project

- Is it possible to design regional level energy concepts?
- Does it make sense?
- Uniform approach for regions/counties?

Promoting renewable energies and integrating them into regional energy concepts.





The project was focussing on.....





How transnational collaboration is possible?

The role of regions in the national energy systems differ significantly.







How transnational collaboration is possible?









How transnational collaboration is such possible?

Südburgenland found the silver bullet. But what about Mazovia or FVG?







CEP-REC Results

- All the concept regions examinded their energy supply and demand, and all of them was able to made it's own **regional energy concept**.
- Renewables are underutilised everywhere. Although the assessed potential varies in the different regions, there are significant unused renewable potentials everywhere, mostly in solar PV and biomass.
- Implementation has started in more advanced regions.
- The state of development of the local energy market and the openness of the market are crucial in future opportunities. Incentive systems are important but not as important that we think.
- A series of renewable energy promotion events was organised in the concept regions





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Key findings

- The **concept regions' role in the energy system** differs very much (e.g.: PL is a hub, HU is dead-end), the historical situation determines the future.
- Significant renewable potentials everywhere.
- **Public opinion is generally similar**, but there are some important differences.
- The available incentives and the openness of the energy market are crucial.
- The more developed countries assess higher RES potentials.
- Some concept regions underestimate RES potentials.
- Lack of (comparable) data due to the lack of regional level data collection.
- Most of the **regions have a "favourite" RES** (AT-biomass, DE-solar).
- Significantly higher potential (assessed) in old MSs than in new ones.





- CEP-REC Obstacles
- Should more advanced partners wait for others?
- The data sources and the legal background differ fundamentally in the regions. In more developed regions the necessary documents/plans/data are "on the shelf", from previous works or public databases, less lucky partners have to collect somehow, but...
- Partners (especially public bodies, authorities) might loose their interest in the project due to the changing **political environment**. High risk of losing focus, no capacity to manage 3-4 year long projects.





CEP-REC FOLLOW UP PROJECT

- Application in Central Europe Programme 2015
- 9 regions in Central Europe, 5 (3 from Danube region) pilot regions from CEP-REC and 4 further regions, take the challenge to implement their energy concepts and to trigger real actions towards more energy efficiency, renewable energies and reduction of CO2emissions
- As brand new highlight, an innovative tool for controlling of the implementation of regional energy concepts will be developed and tested
- Follower regions from outside will find assistance by the project partners and can use the tools developed in the project



Thank you!

csaba.vaszko@wwf.hu





CEP-REC Overcome the obstacles

 As the problems with data availability and backgrund differences occured we changed the approach from a detailed methodology to a flexible framework.

from "you have to use this and than do that..."

to "this way you can start think about the problem"

• This approach needs a lot more creativity, but the huge differences in region's sizes, economic background, level of self-authority, data availability and needs flexible and adaptive management. There is no best way.



LESSONS LEARNED Data availability

- There are huge differences in availability of data between the regions.
- In Germany, Austria and Italy almost everything is "on the shelf", most of the deliverables are (partly) existing from previous works or public databases. (e.g. there is a very accurate public renewable energy potential mapping for Bavaria)
- In Slovakia, Poland, Czech Republic and Slovenia most of the data very hardly available, in some cases does not exist. (e.g. municipality level energy consumption)