

Workshop 2: The Alps as rechargeable battery of Europe?

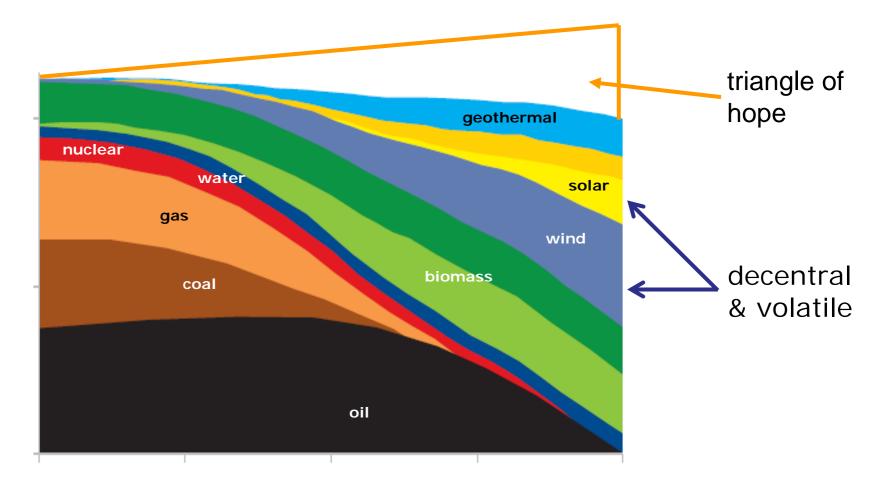
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Alpine Space Forum – Pooling Potentials for Competitiveness, 27/28 September 2011, Ljubljana, Slovenia





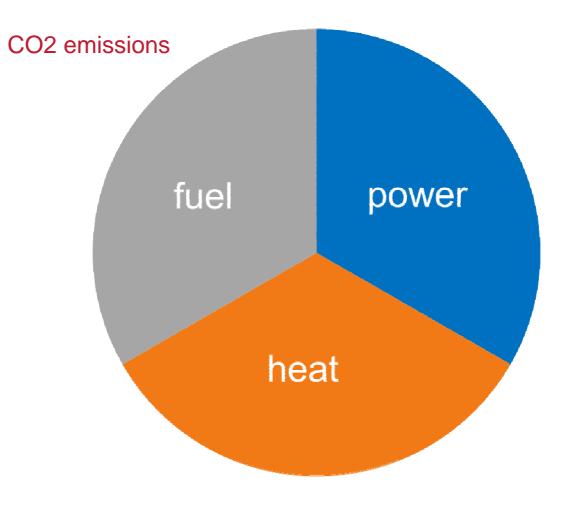
The Overall Challenge







Equal Importance of 3 Action Fields







New Business Scenarios

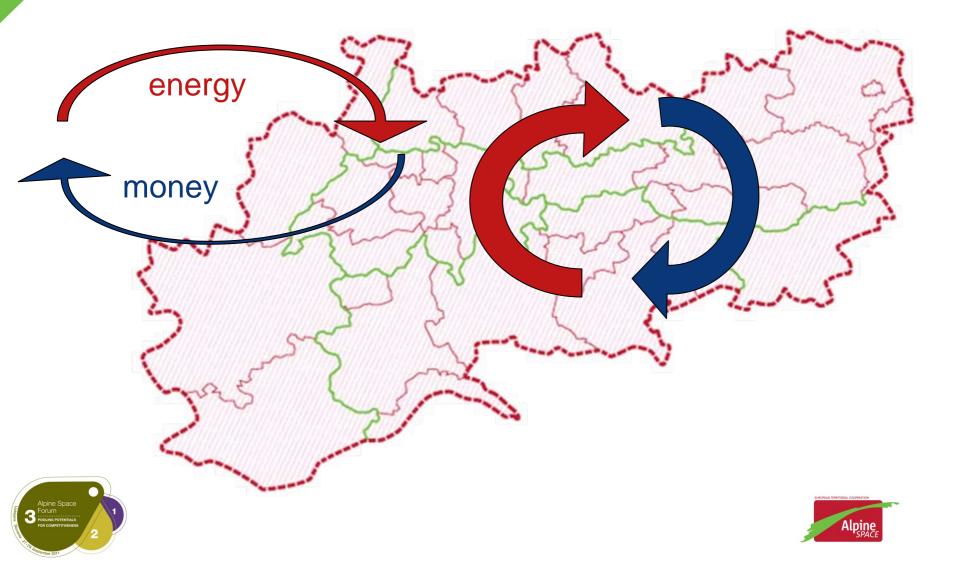
Energy Supplier

Energy Supplier plus Service Provider





The Future System?



Ongoing Market Transformation



Energy Supplier

Prosumer

Aggregator

Mobility Provider





Potentials of the Alps

- rich distributed resources
 - sufficiency (reduction)
 - efficiency
 - biomass
 - hydro
 - solar
 - > wind
 - geothermal
- \succ material (oil, gas) \rightarrow services
- technology and services: an emerging market
- attractive places for show cases



Exploit regional spirit of "We want – We can – We will"!



Challenges for the Alps

- How much do we (really) need?
- How can we make best use of the resources?
 - > Which technology in which volume at which place?
 - accept the geographical structure and variety of regions
 - respect built heritage and the environment
 - How to make efficient use of investments and subsidies?
- How to select, develop and present the technology?
 - > smart grids, storages, electric mobility, ...
 - question of maturity and trust
- New mechanisms for investments?
 - ▹ generation <u>and</u> efficiency
 - contracting, regional funds, eco-power stock exchanges, ...





Needs for action

- assess individual regional potentials and impacts (as a base for decisions & awareness raising)
- make energy change a business case and transform the energy markets (new products, new roles, new market places)
- improve frame conditions to unlock private investments
- develop creative milieus and new methods of
 - ... motivation and activation
 - ... governance and participation
 - ... planning
- make extended use of ICT
- introduce energy change in education
 - From primary schools to universities
 - ▹for companies, banks etc.



Build on existing and gain a critical mass!



Recommendations to European programmes and policy makers

GOVERNANCE

- accept that energy change is more than technology
- develop and decide an AS energy strategy (built on regional roadmaps; in steps 2015 – 2020 – 2030 – 2050)

CAPITALIZATION

better involve entrepreneurs and foster PPP

> pool competences of running and finished projects TRANSFER

- Ink existing research and experience to curricula
- approach media to become partners beyond reporting
- build show cases and make AS a living lab



Energy change a priority for 2014 – 2019!

