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Federal Department of the Environment,
Transport, Energy and Communications DETEC
Federal Office for Spatial Development ARE

Energyplatform Presidency 2013-2014

January 20, 2014

Draft Programme Energy Platform Workshop 3

Energy Systems in the Alps - storage and distribution of energy in the Renewable Energies Era

13 February 2014
Zurich, Switzerland



Conference venue

Karl der Grosse, Zurich

Timetable

Thursday, 13 February 2014

Meals

The meeting will start with a welcome dinner on 12 February.
Before the meeting, coffee will be at your disposal at the meeting venue.

Translation

The workshop will be translated into the four alpine languages.



Workshop Programme

08.00 **Coffee for early birds**

08.30 **Introduction**

Guiding you through the workshop: Sabine Zillmer, Spatial Foresight; Silvia Jost, Federal Office for Spatial Development

Welcome to Zurich

Welcome address by Michel Matthey, president of the Alpine Convention Energyplatform

Setting the scene on “new energy systems” for the energy transition

Christian Schaffner, Energy Science Center / Swiss Federal Institute of Technology Zurich

09.00 **Session 1: From the single building to the region – the localisation trend with energy production by wind, solar and biomass**

Integrating solar energy into district heat systems – experiences from Denmark with “smart district heating”

Mr. Jan Erik Nielsen, PlanEnergi, DK

E-Mobility for decentral electricity storage - Experiences in France

Jean-Marie Compas, specialist for grid solutions at the concession holder for the Rhone river in France, the Compagnie Nationale du Rhône

Balancing demand and offer with new storage systems - experiences in the frame of the Alpstore project

Prof. Peter Droege, University of Liechtenstein

10.45 **Time for discussion**

- Do we have the instruments and knowhow in the Alps to transform centralised grid systems into local systems adapted to renewable energies? “*Hypothesis: For heat generation (e.g. district heating by biomass) we are much further advanced than for electricity, due to centralised hydropower*”
- Which are the benefits for Alpine populations and landscapes of transforming the grid system?
Hypothesis: Decentralised solutions will help alpine SMEs build up new clusters and can be space-saving (e.g. district heating), but we must be prepared to new conflicts (e.g. subsurface property rights). And, on the European scale, large grid systems will continue providing security of supply.

12.00 **Lunch**

13.30 **Session 2: pump storage and transmission lines – the european and global**



trend towards solar power from Desertec and off-shore wind energy in Alpine reservoirs

Integrating new renewable energies into the electricity grid – risks and opportunities for the Alps in the Austrian perspective

Peter Bauhofer from the Tirolian electricity provider TIWAG

Pumped storage power plants for irregular solar and wind power? Is it an ideal complement to “new renewables” or are we facing the phasing out of this costly strategy?

Aurelio Fetz, Federal Office for Energy, Switzerland

Transmission lines across the Alps – how planning processes can take into account public participation

Modesto Gabrieli Francescato, national grid operator TERNA, Padova

Adapting the grid system to the requirements of energy transition – efficiency in electric and thermal grids in Italy

Biaggio di Pietra, Italian National agency for new technologies, Energy and sustainable economic development (ENEA)

Short coffee break

15.00

Time for discussion

- How much new transmission lines are planned in and through the Alps and which is the probability of new pumped storage plants throughout the Alps?
Hypothesis: The Alpine Convention is better prepared for future discussions if it works with different scenarios, including the further development of large energy infrastructures in the Alps (e.g. pumped-storage plants)
- Which is the scope of action of the Alpine Convention in European energy policies?
Hypothesis: The Alpine Convention could try to develop recommendations for an “Alps-compatible” development of the European grid system, based on the Alpine Convention’s spirit

16.00

End of Workshop 3