

NEWSLETTER

July 2014 - n.8

3rd Technical Symposium in Bregenz, Austria. June 3rd, 2014

On 3rd of June the third AlpStore Technical Symposium evolution:m took place at the Festspielhaus in Bregenz. The congress was organized by Vorarlberger Elektroautomobil Planungs- und Beratungs GmbH (VLOTTE) and had the main focus on electro-mobility and storage solutions. Ole Henrik Hannisdahl presented the current developments of electro-mobility in Norway. "About 15 percent of all new cars bought this year are powered by electricity", says Ole Henrik Hannisdahl. One reason for the success of alternatively powered cars is the strong political will to electrify the transport system and to reduce the emissions in Norway. Vorarlberg has set the goal to be autonomous concerning energy issues by 2050. The largest share of energy consumption in this country will be used for mobility purposes. "As a result, the mobility sector has a key role in the near future. Electrically-powered cars and bicycles will



be fix components in the future transport system," says Christian Vögel from the federal state of Vorarlberg. The WAVE (World Advanced Vehicle Expedition) made a stopover at the symposium. Visitors of the congress had the possibility to see the newest types of electric vehicles in Bregenz.

Study Trip for regional authorities to TecnoCity, July 2nd, 2014

The event, organized by Euroimpresa Legnano (EU-IMP) in collaboration with companies of Lombardy Energy Cleantech Cluster, has been addressed to regional and local authorities; the meeting was aimed to match up local public administrations and companies that deal in energy saving. The event was an opportunity for local public administrators to confront themselves with interlocutors, who belong to the energy cluster, which may represent a valid support to guide choices on the theme of energy saving. During the day the results of the pilot action carried out in TecnoCity were presented. The pilot aims to analyze and evaluate the impact of stationary energy storage on the energy system: energy production from renewable sources and consumptions of the common areas of TecnoCity.



ALP STORE



Energy Storage for the Alpine Space



Dear Reader,

Welcome to the 8th issue of the AlpStore newsletter with much new information on our project, interesting events and a new publication.

In our previous newsletters we spoke about the 2nd Technical Symposium, in this one we report about the 3rd one in Bregenz (AT) on June 3rd and the study trip of regional authorities in Legnano (IT). Moreover we would like to describe 2 Austrian pilot actions: the first carried on in Vorarlberg, the second in Güssing. Furthermore the reader can find highlights about the coming events. Last but not least, the partnership is glad to announce its first publication, the **White Book** on "Smart Storage and Mobility", summarizing the concept of STORM, a model to develop and decide upon holistic solutions to increase regional renewable energy supply and outbalance volatility with appropriate buffering means. Enjoy reading!

Ludwig Karg
Project Responsible

AlpStore up-coming events:

TiStore – Relevance of storage for regional development, Università della Svizzera italiana, Via Buffi 13, 6900 Lugano, Switzerland, 8-9 October 2014

A **Public Evaluation Workshop**, addressed to experts and observers, will be held in October in Brescia, Italy

The final conference will be held on February 25th and 26th, 2015, in the Aosta Valley Region, Italy

Pictures, from the top:
Technical Symposium evolution:m, Festpielhaus, Bregenz

WAVE Trophy, stopover in Bregenz

Doc. Marco Merlo shows to the audience **TEAM: TecnoCity Energy Area Manager**, the pilot action developed in TecnoCity, Legnano, Italy

The whole AlpStore partnership is glad to announce that the **White Book "Smart Storage and Mobility (STORM)"** has been published. The publication, realized by the authors Dr. Michael Stöhr, Ludwig Karg and Christopher Jahn, has been edited thanks to the contributions of the partnership. The STORM concept provides a model to develop and decide upon holistic solutions to increase regional renewable energy supply and outbalance volatility with appropriate buffering means. The White Book, in pdf format, is available on alpstore.info

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PILOT ACTION IN VORARLBERG: *Effective storage, Vorarlberger Elektroautomobil Planungs-und Beratungs GmbH (VLOTTE)*

Vorarlberger Elektroautomobil Planungs-und Beratungs GmbH (VLOTTE) implements two different pilot activities in the region. In a first one, so called 2nd use batteries from electric vehicles have been taken to build a stationary battery system. The integration at the chosen location has already started. In the next months the battery storages will be tested and evaluated. In the second pilot, a new type of battery will be developed. The new batteries will be constructed with embroidered materials. First test results show positive findings. In the next months the performance of the batteries will be improved.

PILOT ACTION IN *ÖkoEnergieLand* (Burgenland): *Implementation of a local biogas grid, European Centre for renewable energy (EEE)*

The main goal for the implementation region "ökoEnergieLand" in Austria is to build up a regional biogas grid for heat supply. Due to the innovative character of the overall project also international investors have shown their interest during the last months and are now planning a huge project in the pilot region to the overall topic of Biogas. The so called "Center for Future Energy Technologies" should focus to anaerobic digestion as well as to thermal gasification and deal with different aspects of those technologies. It is also planned to build up different demonstration plants as well as a research centre which should be an international showcase. Intensive negotiations with the investors are already running and should be finished until the end of 2014.



TiStore Autumn School, 8-9 October 2014, at ALaRI - Università della Svizzera Italiana, addresses prospective utilization of energy storage technologies, with the goal of establishing foundations of assessment strategies for energy storage technologies based on cost-benefit analysis with respect to various local conditions. TiStore brings together domain experts, local authorities,

business persons, and technology providers for discussing technical, commercial and social aspects of energy storage adoption. *Università della Svizzera italiana, Via Buffi 13, 6900 Lugano, Switzerland, 8-9 Oct. 2014.*

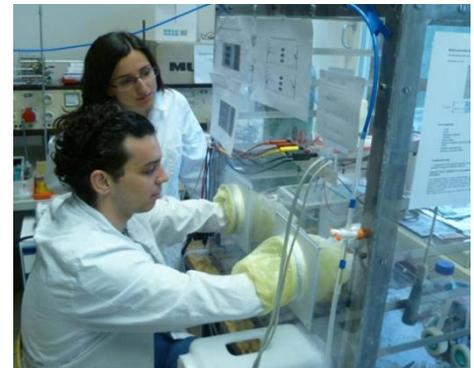
In October, the Italian partner ALOT, Agency of East Lombardy for Transport and Logistics, will organize the **AlpStore Public Evaluation Workshop** in Brescia (Italy), a public workshop which aims to attest and evaluate the progress and impact of the project. The event, developed in order to achieve a transnational audience, is addressed to experts and the project observers. Further information will follow in the Newsletter n° 9 and on the project website.

The **final conference** will be held on February 25th and 26th, 2015, in the Aosta Valley Region, Italy. The event aims to provide guidance to all the stakeholders in the field of storage and electric mobility. The final conference will present the AlpStore final guidelines, the AlpStore White Book on storage systems and case studies from all pilot regions. Participants are expected from the entire Alpine Space. The event is organized by the Regional Ministry of Productive Activities, Energy and Labour Policies of the Aosta Valley Region and the Local Development Agency EuroimpresaLegnano.

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Energy Storage for the Alpine Space



Noemi Aguilo-Aguayo and Pablo Pena Espiñeira, Research Institute of Textile Chemistry / Physics, University of Innsbruck



Biogas plant in ökoEnergieLand

Project partners in these activities are:

Vorarlberger Elektroautomobil Planungs-und Beratungs GmbH (VLOTTE)
www.vlotte.at

Euroimpresa s.c.r.l. (EU-IMP)
www.euroimpresa.it

University of Lugano, Advanced Learning Research Institute (USI-ALaRI)
www.alari.ch

European Centre for Renewable Energy (EEE)
www.eee-info.net

Agency of East Lombardy for Transport and Logistics (ALOT)
www.alot.it

Autonomous Region of Valle d'Aosta - Regional ministry for productive activities - Energy planning and energy efficiency bureau (AOSTA)
www.regione.vda.it