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AlpStore 2nd Technical Symposium in Belfort, France



Last 27th March the second AlpStore Technical Symposium took place at the Technical University of Belfort-Montbéliard, organized by the Laboratoire IRTES-SET, it was addressed mainly to the departmental council of Territoire de Belfort, Energy Valley of Franche Comté and local stakeholders in energy and transport market, namely GE and Alstom Transport. The symposium started with an introductory presentation by Dr. Daniel Hissel of Fuel Cell Lab at Belfort on the recent developments in hydrogen and fuel cell technology, followed by a description of AlpStore project by Ludwig Karg (BAUM Consult GmbH). Representatives of the Departmental Council of Territoire the Belfort and Energy Valley of Franche Comté highlighted the research endeavors in the region on issues of energy and storage and the place of hydrogen based solutions in the future energy scenario. The panel of technical experts, mainly from the industrial sector, gave presentations on existing Hydrogen based projects and practical insights on implementation of Hydrogen based energy storage and mobility solutions. Of particular interest were the presentations by Dr. Florent Petit of INEVA CNRT and Pierre Picard of WH2 Green Hydrogen, in which local Hydrogen production and deployment of Hydrogen based mobility were discussed in detail. A number of obscure points were resolved in the final panel discussion, including the economic viability of Hydrogen as an energy storage solution and its key role in future mobility.

The AlpStore White Book: the project first outcome

The upcoming AlpStore White Book, soon available on the [project website](#), will deliver the first outcomes of the AlpStore's partnership activities: its first part describes the renewable energy situation and storage demand of all Alpine Space countries, based on national status quo and framework studies executed by partners during 2013. Secondly it deals with the potentials of storage technologies at hand and its last part describes the pathways to "smart storage and mobility", that is STORM, a model to develop and decide upon holistic solutions to increase regional RES supply and outbalance volatility with appropriate buffering means.

In the pictures above and right: AlpStore 2nd Technical Symposium in Belfort, France. Source: UTBM

Energy Storage for the Alpine Space



Dear Reader,

Welcome to the 7th issue of the **AlpStore** newsletter with much new information on our project, that is achieving the full implementation of its activities!

In our previous issues we introduced you the **AlpStore** pilot actions in development in France. In this newsletter we would like to give you a feedback from the 2nd AlpStore Technical Symposium that took place on the 27th March in Belfort (FR) and the development of one of the French pilot actions. Moreover we would like you to save the date for the AlpStore activities under organisation in the next months!

Enjoy reading!

Ludwig Karg
Project Responsible

AlpStore up-coming events:

- **Presentation of TEAM (Tecnocity Energy Area Manager) in Legnano (IT), May 2014, organised by Euroimpresa Legnano (Milan, Italy)**
- **Third AlpStore Technical Symposium at the Festspielhaus in Bregenz (AT), 3 June 2014, organised by Vorarlberger Elektroautomobil Planungs- und Beratungs GmbH (VLOTTE)**
- **Technical workshop in Aosta (IT), June 2014 organized by Autonomous Region of Valle d'Aosta**
- **Autumn School in Lugano, 9 Ottobre 2014, organised by University of Lugano**



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Pilot action in Strasbourg (FR) in development: the Alsace Auto 2.0 project

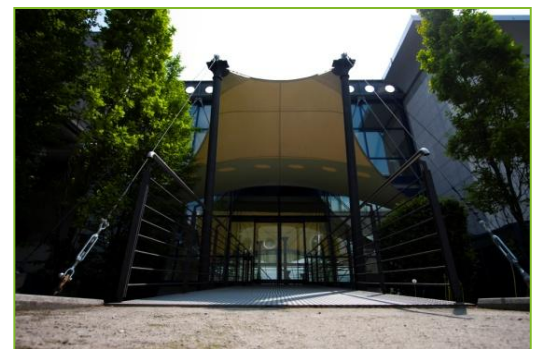
Freshmile is a mobility operator and a load aggregator, which manages the charging process for batteries in electric vehicles in real time. The Alsace Auto 2.0 project is the first experimental roll-out of this system that takes place in Strasbourg and its region and it's NOW been running in Strasbourg since last February 2014: by managing in real time the charging process of batteries in electric vehicles, the Freshmile system is in fact a distributed energy storage system, spread over a given territory. A larger commercial launch will start in 2015.



In the picture above: AlsaceAuto 2.0 (FR).
Image source: Freshmile.

Technical Workshop in Legnano (IT): next May

A technical workshop, organised by Euroimpresa Legnano will be held in the second part of May to present the pilot action implementation within the Tecnocity business campus. The event is aimed to promote the ongoing of the pilot to technical professional and press representatives. The core of the pilot action, called TEAM (Tecnocity Energy Area Manager), is the development of a new energy model, able to effectively integrate and exploit renewable resources, facing up several issues related to a high penetration of intermittent power plants, which could affect system security and power supply quality. In the Pilot action metering apparatus, demand side management procedure, an E-car charging station and a Electrochemical Storage apparatus are coordinated with the final aim to manage Tecnocity's generation and consumption power flows and to provide ancillary services to the main grid. More info soon available [here](#)



In the picture above: Tecnocity (Legnano- IT).
Image source: Euroimpresa Legnano.

3rd Technical Symposium: evolution:m, 3rd June 2014

The 3rd Technical Symposium will be organized by VLOTTE in Bregenz, Austria, in the frame of [evolution:m](#): the focus of the second edition of evolution:m - the future congress for mobility - is once more the electric mobility, dealing with different topics in the field of storages. The international e-mobility rally WAVE will also make a stopover at the Technical Symposium with approximately 100 electric vehicles. More info soon available [here](#).



In the picture above: Festspielhaus Bregenz (AT)
Image source: <http://www.festspielhausbregenz.at/>.



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Technical Workshop in Aosta: next June

Next June in Valle d'Aosta a technical workshop on electric mobility and distributed storage systems will be organized by the Regional Ministry for Productive Activities, Energy and Labour Policies of Autonomous Region of Valle d'Aosta in the frame of AlpStore project: during the day the storage issue will be deepened, with particular attention to small size electrochemical systems and electric or hybrid mobility. From an overview of the state of the art the meeting intends to describe the perspectives and opportunities offered by the deployment of mobile and stationary energy storage, with a special focus on the peculiarities of the energy system and on the Aosta Valley. The meeting will be target to government agencies, universities, professionals and energy companies. Location and date soon available [here](#).



In the picture above: Aosta Valley Pilot site.
Image source: Autonomous Region of Valle d'Aosta.

Autumn school 9th October 2014: Smart Storage for Smart Grids

Efficient usage of different kinds of electric storage is considered to be a key technology enabler for wide adoption of renewable generation at distribution level. AlpStore focus on the smart usage of storage capacities for improvement of grid stability. Many issues from business models to information and communication technologies intersect in this area and we are trying to tackle all of them in a holistic manner. The Autumn School organized by the University of Lugano, Advanced Learning and Research Institute, will present all these issues, trying to give an overview of the actual situation. More info soon available [here](#).



Project partners in these activities are:

- o Université de Technologie Belfort-Montbéliard, Laboratoire IRTES-SET www.utbm.fr
- o Freshmile, www.freshmile.com
- o Vorarlberger Elektroautomobil Planungs- und Beratungs GmbH, www.vlotte.at
- o Autonomous Region of Valle d'Aosta - Regional Ministry for Productive Activities, Energy and Labour Policies www.regione.vda.it
- o Euroimpresa s.c.r.l., www.euroimpresa.it
- o University of Lugano (USI), Advanced Learning Research Institute (ALaRI), www.alari.ch

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