

NEWSLETTER

November 2013 - n.5

AlpStore Technical Symposium *Energy storage for sustainable mobility*



What is the perspective for the Lombard energy system? How is the integration of renewable energies evolving in this region, particularly regarding electric mobility? How could innovative storage solutions be integrated in order to encourage the transition towards electric mobility? These were some of the key topics discussed during the **Technical Symposium Energy storage for sustainable mobility** that took place in Mantua last 14th of October. About 230 people listened to debates of local and regional public administrations, development agencies, key energy operators and companies active in storage and electrical mobility. Mr. Castelli (Province of Mantua, Environment Dept. Councillor) stressed the important role Mantua province plays in the development of renewable energies and sustainable mobility and in the AlpStore project's actions as well as in other European Projects. Mr. Piccoli (ALOT) suggested to discuss about the strategies to be developed in order to increase the investments towards the sustainable mobility in Italy, while Mr. Karg (B.A.U.M. Consult GmbH) stated that it would be necessary to introduce smart grids, smart homes, immediate communication between the various installed systems, energy storage in homes, exploiting technology and engineering tools. On this issue the Italian Authority for Electricity and Gas recalled that they are developing several experiments on smart grids in Sicily and Sardinia, while Mrs. Di Matteo (Regione Lombardia) reminded that a forum with provinces and municipalities is constantly open to discuss about sustainable mobility and environmentally friendly projects in Lombardy, because by 2020 it is necessary to reach 11 percent of renewable energies (Lombardy now is at 8 percent). As far as companies are regarded: ENEL and A2A, two Italian energy providers, contributed with information on their activities and their projects under development at national level (ENEL) and at local level (Milan and Brescia multi-utility A2A). SIEMENS and FIAMM introduced their technologies and solutions for smart grids and storage, while the other companies, that participated, had the chance to present other aspects of the use of renewable in electric mobility, such as in public or private transport (APAM, Renault, Tait/Veteg, H2planet), with an exhibition of different types of EV and devices for their connection and integration in the electric grid and in the mobility system. All the presentations of the Symposium can be downloaded [here](#).

In the pictures above the audience and the speakers of the morning session of the Symposium, pic. 1 from left: G. Piccoli (ALOT Director), G. Leoni (Province of Mantua, Environment Manager), M. Castelli (Province of Mantua, Councillor), F. Dugoni (AGIRE Director), L. Karg (BAUM Director) Pic. 2 from left: G. Piccoli (ALOT Director), M. Medeghini (APAM Ceo), L. Cavalletto (ENEL Infrastructures and Grids Division Responsible), M. di Fiore (SIEMENS E-mobility Developer), L. Karg (BAUM Director).

ALPSTORE



Energy Storage for the Alpine Space



Dear Reader,

welcome to the 5th issue of the **AlpStore** newsletter looking back on the successful **AlpStore Technical Symposium** organized in Mantua on 14th

October. We were very happy about the participation of a great audience interested in our specific project's speakers' topics. Moreover, in this issue you will find a presentation of the AlpStore pilot activities currently developed in Lombardy, centre-north Italy region.. One action, coordinated by Euroimpresa Legnano s.c.r.l, will be developed in Legnano (in the northern part of the Province of Milan), while the other one will be implemented in Mantua, coordinated by AGIRE.

Enjoy reading!

Ludwig Karg
Project Responsible



In the picture above: The exhibition of electric vehicles in Mantua on the 14th of October 2013

AlpStore up-coming events:

- **“Storage and electric mobility for efficient energy systems: the European project AlpStore arrives in Tecnocity”** Workshop, 8th of November in Legnano (Italy). See the agenda [here](#)
- **“2nd AlpStore Technical Symposium”**, March 2014, in Belfort (France)

NEWSLETTER

November 2013 - n.5

PILOT ACTION IN TECNOCITY in LEGNANO: Storage and EV for efficient grid energy system

Legnano is an Italian municipality in the north-western part of the Province of Milan. In this industrial area a pilot application of Virtual Power System will be realized by Euroimpresa in a business campus, TecnoCity, within the **AlpStore** Project. TecnoCity is a high-tech incubator where SMEs and scientific centers work together in order to take benefits from cross sectorial knowledge transfers. Within the pilot implementation the electric energy needs of the industrial area are going to be monitored and controlled in order to coordinate power flows between photovoltaic production and consumption. Moreover a new e-car charging point and stationary storage apparatus will be installed in order to provide ancillary services to the main grid. The adopted model will be based on the Virtual Power System (VPS) architecture.

PILOT ACTION IN MANTUA: Renewable Energy Storage for Mobility in Mantua

The province of Mantua is located in the South East Lombardy, on the border with Veneto and Emilia Romagna. Within the AlpEnergy project, the Province of Mantua, supported by the local energy agency AGIRE, realized a Virtual Power System (VPS) connecting local renewable energy plants (PV and biogas) to users (school) in order to test the management and control of the system's energy balance. Within the **AlpStore** project AGIRE adds the sustainable mobility to that VPS model, integrating a charging station for electric vehicles, equipped with a stationary battery, to be used both as user and as storage. Consumption and production will be monitored to investigate, despite the time discrepancy between them, the possibility to use local renewable energy to charge electric vehicles by the use of local storages (bio-gasometer and electrochemical battery). The charging station will be realized in Mantua and will be able to charge cars as well as electric bikes and scooters. AGIRE works on involving the main actors of the area in the project. These are electric vehicles, charging stations dealers and multi-utilities as TEA, which plans to install a series of charging stations within its public lighting project in the next years. The **AlpStore** pilot implementation aims to supply data and experience to optimize the next systems.

Project partners in the pilot region Lombardy are:

- A.L.O.T. s.c.ar.l., www.alot.it
- A.G.I.R.E. s.c.r.l., www.agirenet.it
- Euroimpresa s.c.r.l., www.euroimpresa.it

ALPSTORE



Energy Storage for the Alpine Space



Image Source: TecnoCity, on the 8th November the AlpStore pilot implementation in Legnano will be presented.

EVENT: Workshop 8/11/2013 Legnano (Italy)
 “Storage and electric mobility for efficient energy systems: the European project AlpStore arrives in TecnoCity”: it will present the pilot implementation to the most relevant local stakeholders on the renewable energy sector and e-mobility service. For info: here and <mailto:segr@euroimpresa.it> +39 0331 487210

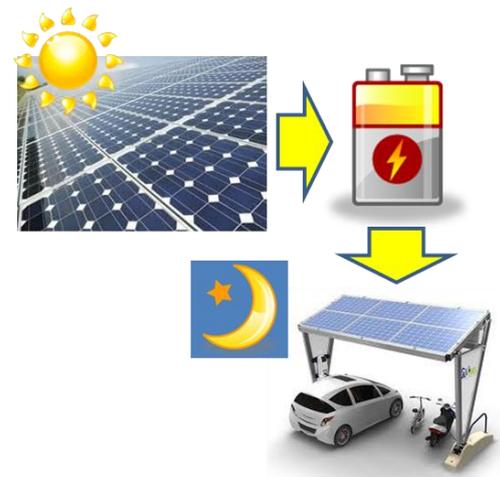


Image Source: AGIRE

Contacts

AlpStore Lead Partner:
B.A.U.M. Consult GmbH
 Patrick Ansbacher
alpstore@baumgroup.de
www.baumgroup.de

Public Relations & Communication:
A.L.O.T. s.c.ar.l. Agency of East Lombardy for Transport and Logistics
 Guido Piccoli
info@alot.it