NEWSLETTER

ALPSTORE

Energy Storage for the Alpine Space

May 2013 - n.3

AlpStore Kick-Off Conference - Energy Storage for the Alpine Space

In front of over 120 participants the Bavarian State minister for Environment and Health, Dr. Marcel Huber, opened the **AlpStore** Kick-Off Conference in Grafing b.München. This international event was the successful public start of our project.

Two key note speakers set the frame for the conference: Prof. Peter Droege from our project partner University Liechtenstein and president of EUROSOLAR e.V. and Prof. Michael Sterner from the University of Regensburg. Whereas Professor Droege illustrated correlations between energy storage and regional development, Professor Sterner gave insights to the system-relevant and technological background of energy storage.

At the occasion of the Kick-Off Conference the Bavarian Minister for the Environment handed over a funding cheque for activities of the project partner B.A.U.M. Consult to the executive director Ludwig Karg.

Presentations of the 12 pilot regions showed a colorful picture of the project activities. Besides the regions of Oberallgäu and Berchtesgadener Land the German project partners have been represented by the event hosts from the district of Ebersberg and the city of Grafing b.München. Two lively panel discussions gave the opportunity to representatives of energy suppliers, e-mobility providers and tourism-agencies to explain their points of view towards energy storage and rounded out the picture.

In the picture above: Managing director B.A.U.M. Ludwig Karg and Bavarian minister of state Marcel Huber (middle) along with German project partners and cofunders of the AlpStore Project (from right to left) Thomas Birner, managing director of the development agency Berchtesgadener Land, Walter Brilmayer, deputy head of the district authority of the district Ebersberg, Heidi Thaumiller, managing director Tourismus Oberstdorf, as well as Rudolf Heiler, mayor city of Grafing b.München

Dear Reader,

welcome to the third issue of the **AlpStore** newsletter looking back to the all around successful **AlpStore Kick-off Conference** in the city of Grafing near Munich on the 25-26th February. Moreover you will find a presentation of activities in our pilot region Oberallgäu. Starting from this issue we will present two of our pilot regions with each newsletter to show how the AlpStore partners will make progress with their contributions to future energy storage in different parts of the Alpine Space.

I'm also very proud to announce the next **AlpStore** events we are organizing in Ljubljana, Slovenia: The **first AlpStore Summer-School,** on the **27/28th June 2013** that will focus on academia, companies, stakeholders and decision makers and our **third Transnational Partner Meeting** connected to it on **26th June 2013.**

Enjoy reading!

Ludwig Karg
Project Responsible

From left: Walter Brilmayer, deputy head of the district authority of district Ebersberg and mayor city of Ebersberg; Dr. Marcel Huber, Bavarian minister of state for Environment and Health; Ludwig Karg, managing director B.A.U.M. Consult GmbH München; Rudolf Heiler, mayor city of Grafing b.München and chairmen of the community council Upper Bavaria.

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Batteries to Store the Sun: Pilot Projects in the Allgäu Region

Intermittent power generation from solar source could become a burden to the power system in the Allgäu region. While demand side management can mitigate stress to some degree, buffering of energy is inevitable to create a secure and cost effective system. On the demand side, a fast growing number of electric vehicles can put even more stress to the power grid - especially if many cars would request charging their batteries in high speed. Again, buffers between the grid and the charging stations can be a solution in the long run. A masterplan for future storage needs will be developed for the entire Oberallgäu region and two pilots will be implemented.

PV-Storeplus Home

In Kempten and Sonthofen, AlpStore partners AÜW and eza! will install battery storage homes and test it in real life conditions. An energy management system will control the flow of power between the PV system, the solar buffer and all appliances including the charge station for the electric scooter. Ongoing tests will unveil how the system can be configured to optimize the consumption of self-generated PV energy versus feeding it into the grid. One goal of the regional supplier AÜW is to learn about customer needs in order to develop new products and consult their clients. Tradeoffs of various configurations between home and grid will be assessed and fed into the regional and national governance processes.

PV-Storeplus E-Bike

In Oberstdorf and Sonthofen, AlpStore plans to install stationary batteries that store true solar energy until it will be loaded into the batteries of E-Bikes. Tourists who rent E-bikes can then be 100 % sure that they bike with green energy. The project can be seen as a first step towards electric vehicle "filling stations" that can operate independent from the grid situation. A special clou: the batteries of the stationary solar buffer will enjoy a second life after they have been serving as batteries of electric vehicles.

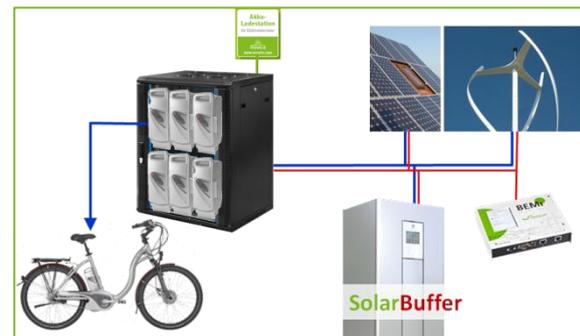## Project partners in the pilot region Oberallgäu are:

o AÜW Allgäuer Überlandwerk GmbH, Kempten, www.auew.de
o B.A.U.M. Consult GmbH, München, www.baumgroup.de
o eza! Energie- & Umweltzentrum Allgäu gGmbH, Kempten, www.eza-allgaeu.de

PV-Storeplus Home

Images Source: AÜW Allgäuer Überlandwerk GmbH, Kempten, eza! Energie- & Umweltzentrum Allgäu gGmbH, Kempten

PV-Storeplus E-Bike

Images Source: AÜW Allgäuer Überlandwerk GmbH, Kempten, eza! Energie- & Umweltzentrum Allgäu gGmbH, Kempten

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