Contact:

energieCENTER
Haller Straße 29/1
74549 Wolpertshausen

Phone: 07904 9 45 99-13
Fax: 07904 9 45 99-29
E-Mail: info@energie-zentrum.com

Book tips:

• Greg Pahl: „POWER FROM THE PEOPLE
: Greg Pahl's Power from the People is an inspirational guide to the burgeoning community-power movement. His case studies of people who are making a difference are often tales of endurance and survival, but also powerful testaments to the human spirit.: Language: English)

• Franz Alt: „Global Cooling – Strategies for Climate Protection
“. (The reader is provided with an overview of recent developments and failings in and successful instruments for fighting climate change and global warming. Language: German and English)

• Michail Gorbatschow: „Alles zu seiner Zeit: Mein Leben
“. (The amazing autobiography of a great statesman and a touching love story. Language: German)

VIS NOVA
CLEAN ENERGY FROM RURAL REGIONS

This Project is co-funded by the European Regional Development Fund under the framework of the Central Europe Program.

CENTRAL EUROPE
COOPERATING FOR SUCCESS.

EUROPEAN UNION
EUROPEAN REGIONAL DEVELOPMENT FUND

Nr. 09 September 2013

2 monthly international NEWSLETTER

VIS NOVA

Table of contents

Project Partner news

Partnermeeting and international conference in Szekszard (Hungary) from 18 November to 20 November 2013

The partners of the VIS NOVA project will meet on Monday, November 18, and discuss project issues. The international conference is planned on Tuesday. A detailed program will be available briefly.

On the third day, November 20, an energy symposium will take place. Details will be as well available in brief.

Exchange of experts and energy symposium in Schwäbisch Hall (Germany) on the 04. and 05. December 2013

At the beginning of December a one-day energy symposium and exchange of experts will take place. Subjects from the VIS NOVA project are presented mainly on the first day at the energy symposium. Besides the presentation of the heat-cadastre of the rural district of Schwäbisch Hall, which are collected in the context of the project, predominantly best-practice examples from the rural district of Schwäbisch Hall will be presented.

The green electricity storage in Gaildorf will be among the presented projects. It is about to be the first project of this kind in the whole world. The distinctive feature of the planned creation is the simultaneously working of four wind turbine systems, which adopt the function of an Obersee at a pumped storage hydro power station. As far as 160.000 m³ water are stored at the towers of the wind energy systems. This water runs back in the valley and produces electric power. The particularly excessive power produced by the use of wind power serves for pumping up the water in the towers again.

On the second day several presentations about renewable energy are offered mornings. In the afternoon several systems and plants will be visited. A detailed program will be published soon.

VIS NOVA
CLEAN ENERGY FROM RURAL REGIONS

Project Partner news

Heat-cadastre is being developed by the rural district of Schwäbisch Hall

The rual district of Schwäbisch Hall initiates to develop a heat-cadastre in the context of the project VIS NOVA. „In the first place, in fact it should be created an own solar-cadastre," reported Heinz Kastenholz, project leader of VIS NOVA "but then the county of Baden-Württemberg fortunately bet us to the draw and we could save the money." Thus, the solar-cadastre of the county can be used for free now and could be completed with a heat-cadastre. Each citizen in the county is able to check with a few mouse clicks whether his roof top can handle a photovoltaic system. In contrast, the administration gains more information about the heat requirement with the heat-cadastre. These information serve as a basis for climate protection and energy concepts. Furthermore, heat sinks, which are possibly interesting to some owners of local heat distribution networks, can be localized. The bureaus for limited calls for tender are currently selected. In December the results of the energy symposium shall be presented.

National news

Renewable energy generates 17 billion € in 2012

In 2012, the increasing use of wind, sun and biomass led to a record level of 17 billion € nationwide creation of value. This is a result of a current study for Greenpeace realized by the institution for economic research (IÖW).

The cities and municipalities benefit with two-thirds of the creation of value. "The renewable energies push the economy in structurally weak rural areas", told Andree Böhling, expert for energy in Greenpeace. This engine may not be killed carelessly by the German government with its reform.

http://www.greenpeace.de/fileadmin/gpd/user_upload/themen/energie/20130902-Greenpeace-Studie-Wertschoepfung.pdf

Study proves extensive reduction of CO2 by waste heat recovery

Until 2010, approximately 100 million tons of CO2 emissions are economized by using waste heat recovery systems. By an increasing use of modern air-handling systems plus cooling and climate systems with waste heat recovery function in the sector of non-residential buildings, in 2025 possible extra savings of 50 million tons of CO2, in comparison to the year 2010, are predicted.

In 2025 the annual possible savings of primary energy in non-residential buildings are thereby estimated with round about 2.630 Petajoule. This is a result of a study of the college in Trier which was published in June 2013. In fact only 8% of the whole existing buildings in Germany persist of non-residential buildings like bureau and administrative buildings, commercial buildings or hospitals. But they mark two-thirds of the energy requirement.
http://www.daikin.de/news/publikumspresse/2013/waermerueckgewinnung.jsp

Renewable Energy from rural district is well received

Seminal investments in systems and networks enable a clean electrical power supply.
In future, the electrical power supply of Germany leans more and more on producers due to the development of renewable energies. From wind plants at the coast and inner land across biogas systems in agricultural regions till solar roofs: eco-friendly energy made out of renewable sources often originates from rural regions, which even generate an increasing overrun of energy. These overruns may be transported to regions with higher needs through power supply systems. Besides the development of renewable energies, the stabilization of the power supply systems occupies an important position. Schleswig-Holstein plays for both a key role as a region, like the agency for renewable energies (AEE) mentioned in a press conference in Kiel on Wednesday.
http://www.unendlich-viel-energie.de/de/detailansicht/article/4/erneuerbare-energie-vom-land-kommt-an.html

Congresses & exhibitions

17.09.2013-19.09.2013/ Stuttgart, Germany
HYBRID Expo
http://www.messe-stuttgart.de/de/besucher/veranstaltungsdetails/termin/824/a/showevent/c/Fair/

24.09.2013-25.09.2013/ Kassel, Germany
5th Congress "100% Renewable-Energy-Regions" (more information at: http://www.100-ee-kongress.de/english-information/)

25.09.2013/ Budapest
Energy Portfolio Manager Seminar (further information at: http://www.ir-hunga-ry.hu/rendezvenynaptar?id=1440&nap=1)

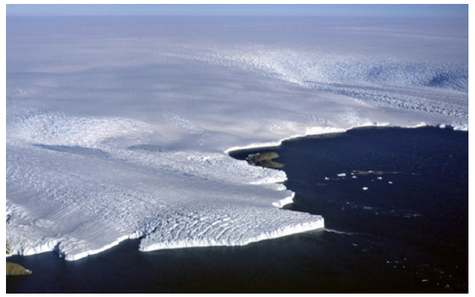
25.09.2013 - 27.09.2013/ Budapest, Hungary
ÖKOINDUSTRIA – International Environmental Industry, Energy Efficiency and Renewable Energy Source Trade
http://okoindustria.hu/en

26.09.2013 - 29.09.2013/ Augsburg, Germany
Fair:
The 14th International Energy Trade Fair RENEXPO®.
http://www.renexpo.de/

International news

Largest ice sheet in the world sensitive to global warming

The East Antarctic Ice Sheet seems to be more vulnerable to the effects of cli-mate change than previously thought. For the first time, an internati-onal re-search team from the Universities of Durham and Zurich has studied the long-term development of outlet glaciers using satellite images, revealing that the advance and retreat of the 175 glaciers studied are closely linked to climatic changes.



http://www.mediadesk.uzh.ch/articles/2013/auslassgletscher_en.html

Policy Support for Renewable Energy Continues to Grow and Evolve

New Worldwatch Institute trend exa-mines global support for renewable energy production.
Throughout much of the world, support policies for renewable energy technolo-gies have increased dramatically over the last decade. Historically, policy de-sign has evolved from supporting rese-arch and development in the 1970s and 1980s to today's focus on technology deployment and market development. Starting in the mid-2000s, deployment-focused policies have been enacted at a rapid pace, growing from 48 countries with policies in place by mid-2005 to a total of 127 countries as of early 2013.
http://vitalsigns.worldwatch.org/vs-trend/policy-support-renewable-energy-continues-grow-and-evolve

Innotech Solar modules replace tradi-tional greenhouse roofs

High temperature performance produces greater energy yield. The solar modules produced by Scandinavian-German manufacturer Innotech Solar AS (ITS) are particularly suitable for warm re-gions, as they demonstrate an outstand-ing temperature coefficient, meaning that they retain their excellent level of performance even in high ambient tem-peratures. A typical application where this performance can bring significant benefits is in commercial greenhouses. By constructing the roof with solar mod-ules instead of glass green power can be generated as well as improving the light and temperature conditions for

plants, without the need for additional shading systems.

http://www.innotechsolar.com/en/news/single/artikel/its-modules-replace-traditional-greenhouse-roofs.html

Planning and Installing Photovoltaic Sys-tems

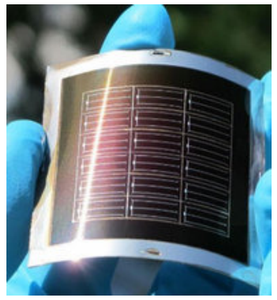
A Guide for Installers, Architects and Engine-ers, 3rd Edition.

New third edition of the bestselling manual from the German Solar Energy Society (DGS), showing you the essential steps to plan and install a solar photovoltaic system. With a global focus, it has been updated to include sections on new technology and concepts, new legislation and the current PV market.
http://www.routledge.com/books/details/9781849713436/

The positive sides of doping

Empa scientists boost CdTe solar cell effi-ciency.

Flexible thin film solar cells that can be pro-duced by roll-to-roll manufacturing are a highly promising route to cheap solar electri-city. Now scientists from Empa, the Swiss Federal Laboratories for Materials Science and Technology, have made significant pro-gress in paving the way for the industrializa-tion of flexible, light-weight and low-cost cadmium telluride (CdTe) solar cells on me-tal foils. They succeeded in increasing their efficiency from below eight to 11.5 percent by doping the cells with copper, as they re-port in the current issue of "Nature Commu-nications".



http://www.empa.ch/plugin/template/empa/3/139085/---/l=2

Congresses & exhibitions

30.09.2013-04.10.2013
Paris, France
28th European Photovol-taic Solar Energy Confer-ence and Exhibition (28th EU PVSEC)
http://www.conferensum.com/List-upcoming-conferences-calendar/environment-and-cleantech/renewable-energy/solar-photovoltaic/28th-european-photovoltaic-solar-energy-conference-and-exhibition-28th-eu-pvsec?conferenceId=5408

07.09.2013-09.09.2013
Innsbruck, Austria
Hydro 2013
http://www.hydropower-dams.com/hydro-2013.php?c_id=88

09.10.2013-10.10.2013
Budapest, Hungary
CEB® Clean Energy Building Expo
http://www.sustainablebusiness.com/index.cfm/go/events.display/id/7519

18.11.2013-20.11.2013
Berlin, Germany
8th International Re-newable Energy Stor-age Conference and Exhibition (IRES 2013)
http://www.eurosolar.de/en/index.php?option=com_content&task=view&id=582&Itemid=173

28.11.2013-30.11.2013
Salzburg, Austria
RENEXPO® PV
http://www.renexpo-austria.at/