



### Book tips:

- **Franz Alt:** "Auf der Sonnenseite - Warum uns die Energiewende zu Gewinnern macht". (On the sunny side – why the energy transition is good for us: Language: German)
- **Rudolf Rechtsteiner:** „100 Prozent Erneuerbar. So gelingt der Umstieg auf saubere erschwingliche Energie“. (100 Percent Renewable: This is why the change succeeds: Language: German)
- **Sven Plöger:** „Gute Aussichten für morgen. Wie wir den Klimawandel bewältigen und die Energiewende schaffen können.“ (Good chances for tomorrow. What shall we do to manage the energy transition: Language: German)

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VIS NOVA Nr. 07 March 2013



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



EUROPEAN UNION  
EUROPEAN REGIONAL  
DEVELOPMENT FUND

Nr.  
**07**  
March  
2013

2 monthly  
international  
NEWSLETTER

# VIS NOVA

## Table of contents

- Project Partner news **P.1-2**
- National news **P.3**
- International news **P.2**
- Congresses and exhibitions **P.2-3**



### Project Partner news

As part of the CENTRAL EUROPE Program reconstruction and modernization of the heat energy supply of the Leisure centre of Szekszárd has been implemented last October. As a result, the heat energy demand of the Sports Hall is supplied from the Szekszárd Bath utilizing geothermal energy.

A 350 m deep thermal well was established in order to supply the family-friendly Bath built by the Waterworks of Szekszárd

The heat production happens through two heat pumps (650 kW performance each) e.g. the domestic hot water and the maintaining of the temperature of the pools. The pipeline construction included the laying down of a pair of insulated pipes in order to deliver the ongoing and the returning heating liquids

The parameters of the pipes:

- Length: 2 x 320 m = 640 m
- Diameter: 2 x Ø110/175 mm
- Material of the pipes: UPONOR Ecoflex Varia Single, plastic pipe PE-X, PN 6, 95°C
- Insulation: pre-insulated PU foam casing protection

Onto the south side of the building solar collectors with the total area of 80 m<sup>2</sup> have been installed, as a result the hot water supply of the facility is going to be feasible for much of the year by solar energy. In addition, during the summer months, due to its size the solar system is suitable for providing heat energy to the bath in order to heat the pools.

In the boiler room of the Sports Centre a computer operated system has been installed, which controls and optimizes heat production and consumption. The PLC program enables the intelligent control of the heating and hot water system, furthermore the most economical use of various energy sources. The system can be supervised through the internet and enforcement actions can also be performed, which allows the synchronization of the systems operating in the sports centre and the bath.





## Project Partner news

### Sellye/South Transdanubian Region/Hungary

The largest solar power plant of Hungary is connected to the grid in town of Sellye. From November 2012 the largest solar power plant of Hungary is installed in town of Sellye, after the favorable results the solar power plant is connected to the grid – the solar power plant is located on 2,5 hectares, it has 50 solarpanels, which follow the movement of the sun, 3000m<sup>2</sup> PV panels were established, where the plant can provide the electricity demand for 250 households.

### Visitors from the Altai Land in Miekinia AGH Center

7 march 2013, Miekinia, Poland  
Guests from the Altai Land, south-central part of Russia, will visit Miekinia Center for Renewable Sources and Energy Saving AGH within the 3-day visit to the region of Krakow. They will have opportunity to see up close our laboratory heating systems (with heat pumps and solar collectors), photovoltaic systems, and other equipment related to renewable energy teaching. There will be also approximate them development plans of Miekinia Center.

## Project Partner news

### Workshop about wind farms, GL Garrad Hassan

22 march 2013, Mieknia, Poland  
One-day introductory course designed especially for students who want to explore knowledge about wind farms design, via thorough review of design process. During the course, examples and practical demonstrations using the latest software will be presented.

### AGH Open Day

#### 5 April 2013, Krakow, Poland

On that day, visitors will be able to know our range of training - directions and specialties - so can get an attractive, well-paying job. They will get know in detail about the AGH and show round the University. They will find out about scholarships social, science and the foreign exchanges.

More information:

<http://www.agh.edu.pl/pl/aktualnosci/wydarzenia.html,,0:vw:3458>

## International news

### Conference "PV Power Plants - EU 2013" at 14-15 March 2013, Warsaw, Poland

After taking place in Prague, Paris and Vienna, "PV Power Plants – EU 2013" will be hosted in Warsaw. It has established itself as a renowned meeting place with good opportunities for professional exchange and networking. Speaker and audience will discuss current developments of the industry in a business-relevant way.



Poland with its new legislation for PV and further Eastern European markets will be lit up, as well as increasing international markets. The event will also focus on technical questions and continue to have a closer look on standardization and quality assurance, financing and insurance of large PV projects as well as the energy transmission. The conference language is English.

More information:

<http://www.solarpraxis.de/en/conferences/pv-power-plants-eu-2013/general-information/>

### ENERGIA – 17th Fair of Conventional and Renewable Energy

#### 15-17 March 2013, Szczecin, Poland

Fair ENERGY is a place to present new technologies of ability to attract and use of electricity and heat from renewable sources, and conventional methods of storage and energy efficiency.

<http://www.mts.pl/index.php?mod=targi&pod=szczegoly&id=2834>

### 08.02.2013 SolarWorld expands its international business:

The largest solar power plants in Sweden, Estonia and Lithuania completed. Record projects implemented in Africa. High-quality solar power plants are in great demand in the so-called "new solar markets": The German manufacturer SolarWorld delivered solar power modules for the now-completed largest photovoltaic system in Sweden, for the largest in-roof system in Lithuania, and the first registered grid-connected solar power plant in Estonia. The Southern Hemisphere also relies on quality: In Namibia, the largest solar power plant in the country has now gone online, which is also equipped with SolarWorld modules. In addition to high-performance modules, SolarWorld is also able to score in international business with solar control technology. In Spain, where under current law grid feed-in is not permitted, the company was the first to offer an alternative solution for operating a cost-effective solar power plant.

<http://www.sonnenseite.com>

## Congresses & exhibitions

14.03.2013 – 15.03.2013/  
Warsaw, Poland:  
Conference "PV Power Plants - EU 2013"

15.03.2013 – 17.03.2013/  
Szczecin, Poland:  
ENERGIA – 17th Fair of Conventional and Renewable Energy

10.04.2013/ Magdeburg:  
Conference: Explosion control for biogas plants  
Exam: Biogas licence.

26.04.2013-  
05.05.2013/Germany:  
Week of the sun

15.05.2013 – 17.05.2013/  
Freiburg, Germany:  
International Geothermic Conference

22.03.2013 – 24.03.2013/  
Bydgoszcz, Poland  
4th TEO Renewable Energy Fair

24.04.2013 – 25.04.2013/  
Krakow, Poland  
3rd Biomass Combustion Forum

29.05.2013/ Sofia:  
Fair: South-East European Forum and Exhibition on Energy Efficiency and Renewable Energy.



## International news

**12.02.2013 HIGHLIGHT: World's solar photovoltaic capacity passes 100-gigawatt landmark after strong year:** The world's cumulative solar photovoltaic (PV) electricity capacity surpassed 100 gigawatts (GW) in 2012, achieving just over 101 GW, according to new EPIA market figures. This global capacity to harness the power of the sun produces as much electricity energy in a year as 16 coal power plants or nuclear reactors of 1 GW each. Each year, the world's PV installations reduce CO<sub>2</sub> emissions by 53 million tons. The surpassing of the 100-GW mark occurred in yet another year of strong global PV development, with an estimated 30 GW connected to the grid and made operational in 2012 – roughly the same as the record-setting level of 2011. These results are preliminary, and the 30 GW figure could be increased by an additional 1 or 2 GW when final numbers come in. Final results for the year will be published in May, in EPIA's annual "Global Market Outlook for Photovoltaics 2013-2017."

<http://www.sonnenseite.com/News,HIGHLIGHT-+World%E2%80%99s+solar+photovoltaic+capacity+passes+100-gigawatt+landmark+after+strong+year.80,a24585.html>

## International news

**13.02.2013 Panasonic achieves 24.7% efficient solar PV cell with HIT technology:** Panasonic HIT® Solar Cell Achieves World's Highest Conversion Efficiency of 24.7% at Research Level. Panasonic Corporation today announced it has achieved a record conversion efficiency of 24.7%\*1 at the research level, using its HIT® solar cell at 98 µm thickness. The rate is the world's highest\*2 for any crystalline silicon-based solar cell of practical size (100 cm<sup>2</sup> and above). This record conversion rate demonstrates superb efficiency of Panasonic HIT solar cells to convert sunlight into electricity. The latest figure is 0.8 percentage points higher than the previous record (23.9%) for HIT solar cells, and 0.5 percentage points higher than the previously published record\*3 for any monocrystalline silicon-based solar cell of practical size (100 cm<sup>2</sup> and above). Further, achieving this high efficiency at the very thin thickness of 98 µm has significant implications in terms of cost reduction as Panasonic continues to improve efficiency of its solar cells while lowering costs, with the aim to set itself apart from other companies in the indus

<http://www.sonnenseite.com/News,Panasonic+achieves+24.7v.h.+efficient+solar+PV+cell+with+HIT+technology.80,a24606.html>



**Nuclear- and fossil energy protection law - the draft of the amendment of the Swiss energy law 2012:** The draft of the energy law of 28 September 2012 tends toward a needless prolongation of the use of nuclear and fossil energy in Switzerland. 50 years of intensive research and development in industrialized countries have not found a solution for a safe disposal of radioactive waste and the SolarSuperState Association concludes that such a solution will never exist. Therefore, the extended use of atomic energy is a severe violation of the right to life for all creatures and last but not least for unborn and future generations. The new energy law (article 2) has to commit to a more speedy realization of an energy supply based on 100 % domestic renewable energy and has to aim for a time target for the realization of an energy supply with 100 % renewable energy (annual balance) of 5 years at most. The improvement of energy efficiency has to complement the renewable energy supply, including cogeneration of heat and electricity which has also to be based solely on renewable energies.

<http://www.sonnenseite.com>

## National news

**08.02.2013 House builder must save energy:** As of 2021 only buildings with low energy standard were allowed to build in Germany. This regulation is part of the energy save regulation (Energieeinsparverordnung EnEV) and the energy save law. For public authorities buildings were applied two years earlier. Between 2014 and 2016 the regulations of heat energy need were tightened step by step.

**08.02.2013 Universal base station for e-cars:** There must arise a lot of gas bars in Germany to make e-cars more attractive. There is no standard interface and no procedure steering for charge of the cars. With the support of the federal ministry of Economy the solution of the communication between loading pillars and e cars was searched. With this charge of all types of cars should be possible.

<http://www.sonnenseite.com>

## Congresses & exhibitions

**03.06.2013/ Copenhagen:** Conference: Copenhagen 31<sup>st</sup> European Biomass Conference and Exhibition.

**03.06.2013/ Tulln:** Public Energy-Conference in Michelhausen (Austria)

**03.06.2013 – 05.06.2013 Balatonfüred** Heat prime mover and environment –Renewable energy sources and fuels in energy sector

**05.06.2013/ Leipzig:** International Biomass Conference.