

- ❖ **Langsiktig sterk støtteordning i Tyskland**
- ❖ **Grants up to fifty percent for domestic solar**
- ❖ **The Dutch stimulate solar energy**

- ❖ **EU to focus on solar, wave and geothermal**
- ❖ **A Step Closer to the Optimum Solar Cell**
- ❖ **Eurosun and Intersolar 2004**

Solgløtt

Nyhetsbrev fra
Norsk solenergiforening
Årg. 6 Nr. 2 mars 2004

Langsiktig sterk støtteordning for både solvarme og solstrøm i Tyskland

Seit Mitte Januar gelten für thermische Anlagen im Rahmen des Marktanzreizprogrammes für **Erneuerbare Energien** neue Richtlinien.

Der Kreis der Antragsberechtigten wird von privaten Nutzern nun auch auf Kirchen, Kommunen und sonstige öffentlich-rechtliche Körperschaften ausgedehnt. Auch Freiberufler und kleine bis mittlere Unternehmen können dann das Programm nutzen. Die Änderungen bedürfen jedoch noch der Genehmigung durch die EU.

Der aus Mitteln der Ökosteuern vom Bund gewährte Zuschuss zu **solarthermischen Anlagen** beträgt 110 Euro pro angefangenem Quadratmeter Kollektorfläche und wird für die ersten 200 Quadratmeter gezahlt. Jeder weitere Quadratmeter wird mit 60 Euro gefördert. Unabhängig von der Größe der bisherigen Anlage gilt dieser Zuschuss neuerdings auch für die Erweiterung bestehender Solarwärmanlagen. Betreiber von Schwimmbecken können bis zu 80 Prozent der Normalförderung erhalten.

Allerdings gelten ab Juni höhere Qualitätsanforderungen: Förderfähig sind dann nur noch Anlagen, die mindestens 525 kWh pro Quadratmeter Fläche (bisher 350 kWh) produzieren.

Source: www.solarregion.net

Grants up to fifty percent for domestic solar power in UK

The Energy Savings Trust offers grants up to fifty percent of the total installation costs for UK homeowners installing solar photovoltaic systems.

The news follows the allocation of an extra 7.5 million euros worth of funding from the UK Department of Trade and

Industry. It is an addition to an original 30 million euros the Department promised to help homeowners and –builders to finance photovoltaic systems. The Energy Savings Trust hopes that in this way more people will install solar photovoltaics.

A typical domestic photovoltaic system can cost between 12.000 and 27.000 euros. The Energy Savings Trust estimates that it will provide approximately fifty per cent of a household's electricity needs or save households up to 150 euros on their annual electricity bills.

The Trust also estimates that if all the new residential new homes needed to be built before 2010 were fitted with solar photovoltaic systems, they could generate 1.395 TW each year. This is four per cent of the total electricity required to be generated from renewable sources by 2010.

The Energy Savings Trust is a non-profit organization set up by the government following the 1992 Rio Earth Summit. The Trust's goal is to achieve the sustainable and efficient use of energy, and to cut carbon dioxide emissions.

Source: *GreenPrices.nl*

Successful project Sun in Zeeland - Municipalities Woudenberg and Eindhoven stimulate solar energy

The successful project, Sun in Zeeland, which enables individual persons and companies to apply for a subsidy for solar panels and solar boilers, will be continued. The sequel project is called Sun and Warmth in Zeeland and focuses more on using heat pumps.

During the project Sun in Zeeland 5,000 solar panels and 200 solar boilers were installed. Totally about 7,000 houses in Zeeland now have solar panels and 1,000 houses have solar boilers. This means an annual saving

of 600,000 kWh electricity and 200,000 m³ natural gas. The reduction of CO₂-emissions is about 700 tons a year.

- The housing association De Vooruitgang will install more than hundred solar panels in the municipality Woudenberg. To finance this project De Vooruitgang gained a subsidy of € 136.000,-, on the condition that the project is finished before the 1st of April 2004. The solar panels will help the inhabitants to save electricity. However the rental price of the houses will be raised, which means a benefit of only € 10,- a month.

- Municipality Eindhoven will also grant subsidies for solar energy. Inhabitants of Eindhoven will get the possibility to apply for a subsidy on solar boilers, solar panels and heat pumps. The subsidy for solar panels is about € 100,- per panel, for the boilers and the heat pumps the subsidy will be € 150,-.

Source: *Energiemanagement.net*

EU to focus research on solar, wave and geothermal energies

ALMERIA, Spain, 2004-03-24 [(Refocus Weekly)] The European Union wants to reduce the cost of generating electricity to Euro 0.05 per kWh by 2020 for concentrated solar thermal, wave and geothermal energy, from their current costs of 0.20 to 0.30.

Source: REFOCUS

A Step Closer to the Optimum Solar Cell

Besides cost, the most fundamental issue in assessing photovoltaic solar cells is efficiency—how much of the sunlight that falls on the cell can it convert to electricity?

For the second time in two years, Kin Man Yu and Wladek Walukiewicz of the Materials Sciences Division, working with colleagues from Berkeley Lab and other institutions, have announced a new solar cell material that may be able to achieve extraordinary efficiency. In every other way these discoveries are different, however.

"The only thing the two materials have in common," says Yu, "is that they both try to capture as much of the solar spectrum as possible."

In 2002, the researchers learned that indium gallium nitride (InGaN) would respond to different wavelengths of light if the proportions of indium and gallium in the alloy were adjusted. Thus it might be possible to create a photovoltaic cell sensitive to the full solar spectrum by stacking multiple negatively and positively doped layers to form several current-producing junctions.

In their latest discovery—what Yu calls "a totally new material concept"—the researchers treat the alloy zinc manganese tellurium (ZnMnTe) in such a way that a single junction of the material may be able to respond to virtually the entire solar spectrum.

"This isn't a multijunction material," says Walukiewicz, "it's even more interesting: a multigap material"—a single semiconductor with multiple band gaps.

A solar cell with the simplest possible physical structure could achieve 50 percent efficiency or better, far higher than any yet demonstrated in the laboratory.

Source: <http://www.lbl.gov/Science-Articles/Archive/sb-MSD-multibandsolar-panels.html>

EuroSun2004: 20 - 23 June 2004,
Intersolar Freiburg: 24 - 26 June 04

Eurosun: The Focal Point for Solar Science, Business and Industry in Europe Intersolar: Internationale Fachmesse und Kongress für Solartechnik

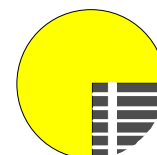
Source: www.eurosun2004.de and: www.intersolar.de/

Husk: Årsmøtet 14.4 og Solenergidagen 28.4

Årsmøtet i Norsk Solenergiforening avholdes den 14.april 2004 kl.1800 i REMBRA sine lokaler, Dælenenggt. 20 inngang N, 0503 Oslo. **Solenergidagen** vil gå av stabelen i konferansesenteret til Byggenæringens Landsforening i Essendropsgate 3 Majorstuen, 0305 Oslo 28.april kl.12-17.

Norsk solenergiforening

Norsk solenergiforening
Postboks 3495 Bjølsen
N-0406 Oslo



Norway