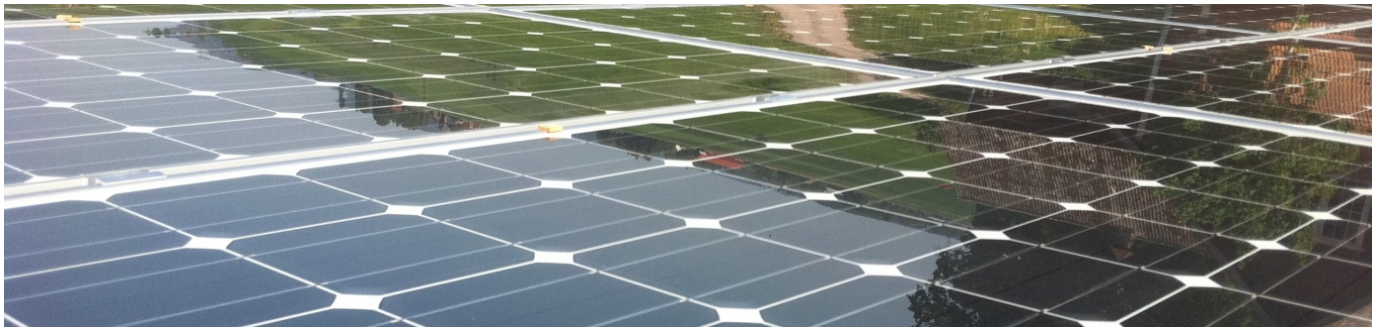
Energimyndigheten

International Energy Agency
Photovoltaic Power Systems Programme

UTILITY ACTIVITIES WITHIN PHOTOVOLTAICS

- En workshop kring energibolagens roll och möjligheter inom elgenerering från solen.

Den 19 april bjuder Energimyndigheten tillsammans med IEA-PVPS in till en workshop kring temat solcellsenergi för energibolag. Medverkar med föredrag gör representanter från svenska energibolag och den svenska solcellsbranschen men även ett flertal internationella experter. Under dagen kommer energibolagens roll, nuvarande verksamhet och möjligheter inom solcellsgenererad el i både Sverige och resten av världen att presenteras och diskuteras.



Bakgrund

Väldigt mycket händer väldigt snabbt inom solcellsbranschen just nu. I och med att produktionskapaciteten i världen har ökat och att stora marknader har etablerats genom olika stödsystem så har kostnaderna för solcellssystem rasat. Bara i Sverige har priserna för ett färdiginstallerat system halverats på två år. Både i Sverige och i världen ökar installationstakten och under 2011 installerades det 28 GW globalt sett, jämfört med 17 GW 2010. Vilken roll har elhandelsbolagen och nätägarna i denna växande solcellsmarknad? Vilka affärsmodeller finns i dagsläget och går det att tjäna pengar på solcellsenergi? Hur ser det ut i Sverige jämfört med resten av världen? Detta är några av de frågeställningar som kommer att behandlas under workshopen.

Plats

Workshopen kommer att hållas på Nordic Sea Hotel i Stockholm. Hotellet ligger strax intill centralstationen. För mer information: http://www.nordicseahotel.se/sv/

Tidpunkt

Workshopen går av stapeln den 19 april och föredragen startar klockan 10.00.

Anmälan

Sker till johan.lindahl@angstrom.uu.se. Ange namn och organisation. Inbetalningsuppgifter fås i ett svarsmejl. Antalet platser är begränsat så se till att anmäla dig så snart som möjligt om du vill vara säker på en plats.

Kostnad

Kostnad för workshopen är 650 kronor. I priset ingår lunch och fika.

Övrigt

Alla föredrag och diskussioner kommer att hållas på engelska.

För frågor kontakta Johan Lindahl: johan.lindahl@angstrom.uu.se

Kontaktperson Energimyndigheten är Sara Bargi: sara.bargi@energimyndigheten.se

Program

The Current PV Situation			
09.00	**Registration and Coffee**		
10.00	Introduction		
10.05	IEA-PVPS introduction	Mr. Greg Watt	Australian PV Association, IEA-PVPS task 1, Australia
10.15	Latest numbers and news from the Swedish PV-market	Mr. Johan Lindahl	Uppsala University, IEA-PVPS task 1, Sweden
10.30	The current PV-situation in the world	Mr. Gaëtan Masson	EPIA, IEA-PVPS task 1, Belgium
10.50	The situation for a Swedish PV-system owner	Dr. Bengt Stridh	ABB Corporate Research, Sweden
11.05	Thoughts from a PV-system installer company	Dr. Lars Hedström	Direct Energy, Sweden
11.20	PV from an investor's perspective	Mr. Pius Hüsser	Nova Energie GmbH, IEA-PVPS task 1, Switzerland
11.35	Challenges of high PV penetrations in distribution grids	Dr. Joakim Widén	Uppsala University, Sweden
11.50	Time for questions		
12.00	**Lunch**		
Swedish Utility Activities			
13.00	Solar energy in the sustainable city	Mrs. Li Lövehed	E.ON Försäljning Sverige AB, Sweden
13.15	The DSO role engaging our consumers in microproduction area	Mr. Jonas Person	Mälarenergi Elnät AB, Sweden
13.30	How to get people enthusiastic about grid-connected PV solutions at home	Mr. Johan Ehrenberg	Egen el i Stockholm AB, Sweden
13.45	Evolving a Solar Economic Association into NG	Mr. Hans Nyhlén	Sala-Heby Energi AB, Sweden
14.00	Questions, panel discussion	Moderator: Mr. Greg Watt	
14.30	**Coffee Break**		
International Utility Activities			
14.50	General overview of the worldwide utility experiences	Mr. Greg Watt	Australian PV Association, IEA-PVPS task 1, Australia
15.05	Overview of Japanese power condition and utility activities within PV	Ms. Izumi Kaizuka	RTS Corporation, IEA-PVPS task 1, Japan
15.25	PV aggregation results from Germany	Dr. Bernhard Ernst	Director Grid Integration, SMA Solar Technology AG, Germany
15.50	Photovoltaic Systems in Israel	Dr. Yona Siderer	Ben-Gurion University, National Solar Center in Sede Boqer, IEA-PVPS task 1, Israel
16.10	PV and utilities in emerging countries/markets	Mr. Peter Ahm	PA Energy A/S, IEA-PVPS task 1, Denmark
16.35-	Questions, panel discussion	Moderator: Dr. Bengt Stridh	

Speakers

Mr. Greg Watt	Australian PV Association, IEA-PVPS task 1, Australia	Mr. Greg Watt is an Australian climatologist currently contracted by the International Energy Agency PVPS Programme to manage one of its collaborative activities, Task 1 – Information Exchange and Dissemination, and has been involved with this and other IEA programmes such as Demand Management for more than 15 years. After initially studying meteorology and climatology, Mr. Watt has spent almost 30 years working on sustainable energy programmes and projects – for a major Australian electricity utility, a Danish utility, Australian federal and state government energy agencies, and for 17 years as a self-employed energy policy consultant and programme manager. Mr. Watt has an interest in renewable energy policy development, particularly the wider public policy implications.
Mr. Johan Lindahl	Uppsala University, IEA-PVPS task 1, Sweden	Mr. Johan Lindahl is a PhD student at the Ångström Solar Center at Uppsala University. He is currently involved in research about cadmium free buffer layers in CIGS thin film solar cells. He is also since 2010 Sweden's representative in IEA-PVPS task 1 and responsible for gathering and compiling information about the Swedish PV market. Mr. Lindahl holds a M.Sc. in material science from Uppsala University.
Mr. Gaëtan Masson	EPIA, IEA-PVPS task 1, Belgium	Mr. Gaëtan Masson, 39, is Head of Business Intelligence at EPIA, the Photovoltaic industry association in the European market, the largest in the World. EPIA draws members from across the entire PV sector, from Europe and the entire World. He manages EPIA's Business Intelligence unit, dedicated to study market and industry development, technology and sustainability impacts of PV. It deals with PV market and industry developments, short and long term PV scenarios, grid parity, competitiveness with conventional energy sources and integration of all renewable energies in the electricity sector. He is also contributing to IEA-PVPS task 1. Mr. Masson has in addition a broad experience in the financial sector, including financing tools and markets. Mr. Masson is an electromechanical engineer from the Université Libre de Bruxelles in Belgium. He also holds a master in political sciences, a master in management from the Solvay Business School and a master in environmental studies.
Dr. Bengt Stridh	ABB Corporate Research, Sweden	Dr. Bengt Stridh received his Ph.D. in Materials Science 1987. Bengt is an engineer and project manager at ABB, Corporate Research, since 1988. He has been working with renewables since around 2000, including PV, hydrogen generation, hydrogen storage and fuel cells. Bengt is currently working with PV projects internal ABB, with focus on PV modeling.
Dr. Lars Hedström	Direct Energy, Sweden	Dr. Lars Hedström is one of Sweden's leading experts in grid-connected PV systems and also has a doctorate from the Royal Institute of Technology in the biogas-powered fuel cells. Lars sits on the board of Svensk Solenergi. He holds a M.Sc. from Linköping Institute of Technology.
Mr. Pius Hüsser	Nova Energie GmbH, IEA-PVPS task 1, Switzerland	Mr. Pius Hüsser is co-owner of Nova Energie GmbH, a consulting company for renewable energy and energy efficiency. Besides that he is also a vice chairman at Swissolar, the Swiss Solar Energy Professionals Association, board member at Edisun Power (stock listed PV Investor) and board member at TBS Suhr AG, a local utility.
Dr. Joakim Widén	Uppsala University, Sweden	Dr. Joakim Widén is a Postdoctoral Research Fellow in the Built Environment Energy Systems Group (BEESG) at Solid State Physics, Department of Engineering Sciences, Uppsala University. He is involved in research on different aspects of large-scale implementation of PV technology in the built environment and in power systems.
Mrs. Li Lövehed	E.ON Försäljning Sverige AB, Sweden	Mrs. Li Lövehed has M.Sc. in Civil Engineering, Licentiate of Engineering in building services at Lund Institute of Technology. She has since 1999 been working as energy and environmental consultant, project manager and business engineer at E.ON. Main activity has been district heating often with sustainable focus and renewable energy. Current occupation as business developer at E.ON Försäljning.

Mr. Jonas Person	Mälarenergi Elnät AB, Sweden	Mr. Persson is Market Manager at Mälarenergi Elnät AB. He has been working with the deregulated market in Sweden since 2005, mostly with metering and invoicing issues from different perspective. The last years Jonas has been working with small scale production, EVs and Smart Grids from a customer perspective.
Mr. Johan Ehrenberg	Egen el i Stockholm AB, Sweden	Mr. Johan Ehrenberg is a Swedish journalist, publisher, entrepreneur, debater and author. Mr. Ehrenberg is an avid proponent of alternative energy sources and has since the 1990s been active in the climate change issue and has initiated several climate-friendly companies. Among other things, he is vice chairman of Egen-El, a company that helps consumers to produce their own electricity. He also has an electricity company, ETC El, who has been voted to be the best utility company by Greenpeace.
Mr. Hans Nyhlén	Sala-Heby Energi AB	Mr. Hans Nyhlén has a M.Sc. in Energy systems Engineering and has worked with business development at Sala-Heby Energi AB since 2005, within areas such as CHP/district heating, energy services/energy efficiency and energy system developments in a close relationship with customers and other stakeholders. Since 2008 engaged in the formation and development of "Solel i Sala och Heby Ek.för."
Mrs. Izumi Kaizuka	RTS Corporation, IEA-PVPS task 1, Japan	Ms. Izumi Kaizuka is the manager of Research Division in RTS Corporation, a PV consulting company with over 25 years history based in Tokyo. She has been Japan's representative of Task 1, information exchange and communication working group of IEA PVPS since 2003. She has been working for various research projects on PV for the government, agencies and organizations and manufacturers in Japan and overseas. She has been invited to various PV conferences in Japan and overseas as a lecturer on the topic of PV policy and market. Prior to working at RTS, she was working for Japan Association for International Chemical Information, a not-for-profit scientific information service organization.
Dr. Bernhard Ernst	Director Grid Integration, SMA Solar Technology AG, Germany	Dr. Bernhard Ernst is director of the department Grid Integration at SMA Solar Technology AG, one of the world's largest manufacturers of PV power converters. Prior to this he was manager of the Front Office System Planning at Amprion GmbH (formerly RWE TSO), one of the four German transmission system operators. He holds a degree of electrical engineering of the University of Kassel, Germany. In 2003 he finished his Ph.D. (Dr. Ing.) on the topic of wind power forecasting at the "Institut für Solare Energieversorgungstechnik" (ISET) in Kassel. In 2004 he started his career at RWE TSO with main focus on wind power integration and congestion management. Dr. Ernst has published several papers about grid integration of renewable energy source and forecasting systems on international conferences and workshops.
Dr. Yona Siderer	Ben-Gurion University, National Solar Center in Sede Boqer, IEA-PVPS task 1, Israel	Dr. Yona Siderer majored in chemistry and physics at the Hebrew University of Jerusalem (1972), spent one year of scientific research at the Tokyo Institute of Technology, supported by a UNESCO fellowship (1972-73), earned her Ph. D. in chemistry from the Weizmann Institute of Science in 1979, and Master of Business Administration (MBA) from the Recanati School of Management, Tel-Aviv University, 1996. In the role of senior researcher, at the National Solar Center**,** Sede Boqer Campus, Ben-Gurion University she serves as the Israeli representative at the International Energy Agency committee on Dissemination of Information on Photovoltaic (solar electricity) Systems Installation, since 2000.
Mr. Peter Ahm	PA Energy A/S, IEA-PVPS task 1, Denmark	Mr. Peter Ahm owns and runs the Danish renewable energy consultancy PA Energy Ltd. established in 1985. He has been engaged in almost all aspects of PV technology and its applications, and has carried out PV projects and assignments in more than 50 countries all over the world. Mr. Ahm is head of the Danish PV advisory group to the government and represents Denmark in various international contexts including the IEA PVPS. He has compiled numerous analyses and reports on PV including the Danish National PV Strategy.

Participator	Organization	Participator	Organization
Bengt Stridh	ABB	Pius Hüsser	IEA-PVPS Task 1
Lars Hoppe	Bosch Thermoteknik	Thidarat Sawai	IEA-PVPS Task 1
Maria Haegermark	Chalmers	Yona Siderer	IEA-PVPS Task 1
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Li Lövehed	E.ON	Afshin Samadi	KTH
Johan Ehrenberg	Egen El	Angela Picciariello	KTH
Johan Paradis Ärlebäck	Energibanken i Jättedal	Della Jose	KTH
Mats Andersson	Energibanken i Jättedal	Farhan Mahmood	KTH
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Joar Johansson	Fortum	Lin Liljefors	Skanska
Tobias Walla	Fortum	Bernhard Ernst	SMA Solar Technology
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Tobias Persson	Glacell AB	Per Wickman	Solelia Greentech
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Johan Lindahl	IEA-PVPS Task 1	Karim Altishe	Venus Täby
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