

# “Task 56” and "Smart Energy Green Cities" invite to an afternoon event about active solar façades

The event will be held on Thursday 7<sup>th</sup> March and it will be divided into two sessions.

In the first session, we will look at active solar façades in an urban context:

**Knud Pedersen from Radius** (The electricity distribution company owned by Ørsted), will focus on how the electric grid can enable the transformation of the existing energy system into a more sustainable one, based on increased use of PV panels, batteries and electric cars.

Afterwards, **Erik Christiansen from EBO Consult**, will tell us about the new EU directives for Energy Communities and how they will set their mark on the future energy picture in Denmark. Furthermore, they will share their experience in integrating solar heating in Avedøre District Heating network.

**Ellika Taveres-Cachat from NTNU** (Norwegian University of Science and Technology) will close the session presenting a review about how solar active façade can contribute to for zero emission neighborhoods.

In the second session, we will focus on concrete active solar façade technologies and meet with the technology providers:

**Martin Dietz from Solarlightning** will tell us about the roof BIPV solution that will be installed at Landsdommergården, northwest of Copenhagen.

**Michaela Meir from AVENTA**, which is a Norwegian manufacturer of polymeric solar collectors, whose target market is BIST solutions. Examples of BIST building projects will be shown (one example is the Living in Light Box in Valby), further how BIST can be integrated in DH networks at end-user level (EU project RELaTED).

**Roberto Fedrizzi from EURAC Research and project leader of IEA SHC Task 56** will close the session, presenting different active solar façade systems already available on the market and showing which solutions we might see on the market in the future.

During each session, the presentations will be followed by a round table discussion.



**Location:** SBI/AAU, A. C. Meyers Vænge 15, 2450 Copenhagen/ Seminar room 2.3.124, 3rd floor in building A  
**Time:** Thursday 7/3 2019 from 13:30 to 17:30.  
**Registration:** Vickie Aagesen, [viala@kubenman.dk](mailto:viala@kubenman.dk). The registration deadline is 4/3 2019.

**Task56:** is an International Energy Agency project that focuses on the analysis, simulation, laboratory test and onsite monitoring of solar envelope systems. The strategic objective of the Task is to coordinate the research and innovation effort taking place within the scientific community and the private sector, towards the utilization of solar technologies integrated into envelopes (<http://task56.iea-shc.org>).

**Smart Energy Green Cities:** is a Danish research and development project on new solutions for integrating renovation of buildings, district heating, sustainable energy supply (BIPV and heat pumps) and ground water storage solutions. The project will use the ATES technology (Aquifer Thermal Energy Storage). The ATES technology balances the average water temperature at the normal level. This means that when a surplus of heat is added to the groundwater, primarily during the summer period, this will be counteracted by removing heat in the winter period, where also the heat is needed in the buildings. The project is supported by the Danish Ministry of Energy, Supply and Climate.

<b>Industry Workshop</b> <b>Meeting place: SBI/AAU (A. C. Meyers Vænge 15, 2450 København/ Seminar room 2.3.124, 3rd floor in building A)</b>		
13:30	Registration and welcome	Cenergia and EURAC
14:00	<b>Session #1</b> <b>Topic:</b> The active solar façade at district level <b>Chair:</b> Eurac Research/Roberto Fedrizzi <b>Participants:</b> Radius/Knud Pedersen, EBO Consult/Erik Christiansen and NTNU/Ellika Taveres-Cachat	
14:10	Radius Chairman, Knud Pedersen	The electricity distribution company, Radius, is preparing itself to a new role with much more interaction between the distribution company and network customers who want to contribution to the green transition using PV panels, batteries and electric cars.



14:30	EBO Consult A/S CEO, Erik Christiansen	Erik Christiansen will tell about the new EU directives for Energy Communities and how they will set their mark on the future energy picture in Denmark.
14:50	NTNU, Ellika Taveres-Cachat	Ellika Taveres-Cachat will present a review work about solar active envelopes for zero emission neighborhoods.
15:10	Questions and answers to the speakers	
15:30	<i>Coffee break</i>	
15:50	<b>Session #2</b> <b>Topic:</b> The Active Solar façade at building level - introduction <b>Chair:</b> University Innsbruck/Fabian Ochs <b>Participants:</b> Solarlightning/Martin Dietz, AVENTA/Michaela Meir and Eurac Research/Roberto Fedrizzi	
16:00	Solarlightning Architect and contractor, Martin Dietz	Visions and conditions. Martin Dietz from Solarlightning will tell us about the roof BIPV solution that will be installed at Landsdommergården in northwest, Copenhagen.
16:20	AVENTA, Michaela Meir	AVENTA is a Norwegian manufacturer presenting projects with their BIST technology and how BIST can be integrated in DH networks at end-user level (EU project RELaTED).
16:40	Eurac Research, Roberto Fedrizzi	Presentation of the different active façade systems on the market and on the solutions that we might see on the market in the future.
17:00	Open discussion	
17:30	<i>Closing remarks and end of the workshop</i>	