

19th ETIP PV Annual Conference

Digitalised and responsive PV

The driver of Grid and Market evolution



22 & 23 May

2024

Rue Ravenstein 4,
Brussels, Belgium



SAVE THE DATE

The conference will focus on advancing sustainable energy through intelligent PV systems for effective grid control. Cyber secure digitalisation has gained much prominence in the last few years. Fostering energy communities for shared sustainability is central in this evolution of technologies, ensuring PV responsiveness in adaptable power systems, and driving PV industry growth through digital responsiveness and effective data utilization. The conference aims to unite PV innovators and wider energy stakeholders to discuss, explore, and advance the integration of photovoltaic technology into a responsive sustainable energy future.



CONFERENCE PROGRAMME

Day 1 – 22 May

13.30– 14.00	Registration and Welcome Coffee
14.00 – 14.30	<p>Opening Session</p> <p>Welcome Speeches</p> <p>Rutger Schlatmann (HZB-Institut PVcomB and ETIP PV Chair), Venizelos Efthymiou (University of Cyprus and conference chair), Pierre-Jean Alet (CSEM and conference chair), Walburga Hemetsberger (SolarPower Europe)</p> <p>Policy Keynotes</p> <ul style="list-style-type: none"> -Resilient multi-vector energy systems from the continental scale to the building level (Lukasz Kolinski (Head of unit of the Renewable Energy Unit, DG ENER, European Commission)) -Driving the RepowerEU process through a revamped market model with PV central in energy mix (Jochen Kreusel (T&D Europe))



<p>14.30 –16.00</p>	<p>SESSION I: PV systems intelligently contributing to effective distributed control</p> <p>PV technologies are constantly maturing offering additional control capabilities through embedded power electronics making them friendlier to the needs of the integrated grid and the end user in achieving quality of supply. These enhanced control capabilities are multiplied by the intelligence build in the advance features of inverters adding operational versatility that operators need in safeguarding security of supply.</p> <p>Chairs: Venizelos Efthymiou (University of Cyprus), Natalie Samovich (Enercoutim)</p>
<p>14.30 – 15.00</p>	<p>Keynote speeches</p> <ul style="list-style-type: none"> -Distributed control regimes with active PV systems responding to system needs (Nikolaos Hatzargyriou (NTUA)) -PV enriched with power electronics intelligence and storage systems preserving the required reliability of supply (Michele De Nigris (RSE))
<p>15.00 – 16.00</p>	<p>Panel discussion</p> <p>Nikolaos Hatzargyriou (NTUA), Michele De Nigris (RSE), Thomas Ackermann (Energyautics)</p>
<p>16.00 –16.30</p>	<p>Coffee Break</p>
<p>16.30 – 18.00</p>	<p>Session II: Energy sharing building functional Energy Communities</p> <p>The European energy systems are evolving to achieve the renewable energy integration and gas emission reduction goals. Within this context, the Renewable Energy Communities (RECs) emerge as innovative models to integrate diverse renewable energy sources, storage solutions and demand management strategies by unlocking energy sharing and market participation. The small and medium-scale photovoltaic prosumers will drive the energy sharing and self-consumption in the implementation of RECs. Moreover, by actively engaging collaborations among citizens, businesses, and local organizations a holistic approach can be developed, able to reach not only technical but also social, economic, and environmental benefits.</p> <p>Chairs: Grazia Barchi (Eurac Research), Johannes Stierstorfer (WIP Renewables)</p>
<p>16.30 – 17.00</p>	<p>Keynote speeches</p> <ul style="list-style-type: none"> -Building our carbon free energy future with central role to energy communities maximizing the use of local energy resources (Fabrizio Pilo (University of Cagliari)) -Lesson learned and key benefits of energy communities: the case of Austria (Tara Esterl (EUREC))
<p>17.00 – 18.00</p>	<p>Panel discussion</p> <p>Fabrizio Pilo (University of Cagliari), Tara Esterl (EUREC), Sofia Barbosa (Greenvolt)</p>
<p>18.00– 19.00</p>	<p>Networking Drinks</p>

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Day 2 – 23 May

9.00 – 9.30

Registration and Welcome Coffee

9.30 – 11.00

Session III: Highly responsive PV in a flexible power system

Flexibility is essential to the reliability and efficiency of the power system. While the production of PV systems is primarily driven by the weather, advanced techniques can make it highly responsive. High-resolution, probabilistic forecasts open the way to PV systems providing ancillary services to the grid. Co-location with other technologies such as wind and stationary storage makes an efficient use of network capacity and increases predictability. These advances are jointly driven by PV operators, energy producers and utilities.

Chair : Pierre-Jean Alet (CSEM)

9.30 – 10.00

Keynote speeches

-How can demand side flexibility and PV flexibility complement each other to provide grid services? (**Marion Perrin** (Energy-Pool))

10.00 – 11.00

Panel discussion

Marion Perrin (Energy-Pool), **Gofran Chowdhury** (3E), **Eric Quiring** (SMA)

11.00 – 11.30

Coffee Break



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11.30 – 12.45

Session IV: Enhancing PV industry efficiency through focused digitised control and data sharing architectures and models

The digitalisation of the energy system covers a central role in the integration of renewable energy sources and in achieving the goals set by the 'Fit for 55' package and the RePower plan. To this end, data sharing through a reliable and secure common European data space for energy is a key element. This session will highlight the findings of the ETIP SNET Energy Data Space Policy Paper, expand on how it can aid the integration of RES and PV in the grid as well as discuss the opportunities and challenges that stem from it.

Chair : Pierre-Jean Alet (CSEM)

Keynote speech

-How the Energy Data Space aids the integration of RES and PV in particular in the Grid.

Natalie Samovich (Enercoutim)

Panel discussion

Key challenges and opportunities of implementation of Energy Data Spaces in the integration of RES (and PV) in the grid

Natalie Samovich (Enercoutim), **Laurent Schmitt** (Digital4Grids), **Nikolaos Hatziargyriou** (NTUA)

Co-organized by ETIP SNET

12.45 – 13.15

Closing Session

Closing Keynote Speech and Wrap-up

Rutger Schlatmann (HZB-Institut PVcomB and ETIP PV Chair), **Venizelos Efthymiou** (University of Cyprus and conference chair), **Pierre-Jean Alet** (CSEM and conference chair)

13.15 – 14.00

Lunch Break

14.00 – 16.30

Resilex x EverPV workshop

The event will present the current status of the Critical Raw Materials Act and feature three roundtable discussions on (1) scaling up the technologies developed by the projects, (2) closed-loop recycling, and (3) open-loop recycling. The discussions will center on challenges and the necessary framework conditions (legal, political, economic, technical), seeking potential solutions for research and innovation to contribute at a technical level to EU policies. Targeting researchers, policymakers, recyclers, project developers, NGOs, and more, the workshop offers diverse stakeholder groups the opportunity to engage in the discussions. you can find more info [here](#) and register [here](#).



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