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## Photovoltaics to be a building block of future power systems!

**Early adaptation of power system design and increased stakeholders' cooperation will make the system integration of massive amounts of photovoltaics (PV) mutually beneficial, a new report by the European Photovoltaic Technology Platform finds**

In recent years, PV has experienced a remarkable growth in Europe. On average this technology already meets more than 3% of the EU's electricity needs, and during some exceptional days PV plants have covered 50% of the instantaneous German power consumption.

Like some other renewable energy technologies, PV is decentralised, variable and non-synchronous. Hence, it is completely different from the incumbent technologies that our old power system has been designed for.

"First of all, our study shows that there is a need to harmonise and improve the existing methods to quantify the current and potential level of PV in power grids" - said Pierre-Jean Alet, leader of the Grid Integration Working Group of the EU PV Technology Platform.

"Secondly, we prove that there are many technical solutions to increase the grid hosting capacity, some of which imply the use of smart PV capabilities like production adjustments to support grid frequency and voltage. But such solutions must be designed via close collaboration between the PV industry and other power sector stakeholders and must be underpinned by revised regulations and market rules" - Mr Alet continued.

"This evolution is driving a rethink of planning and operation rules for power grids, which can make more efficient and flexible use of the power infrastructure. The earlier the system adjusts to a new decentralised approach, the cheaper the evolution will be" - he concluded.

This new EU PV Technology Platform analysis is available [here](#) and will be presented during the plenary session between 10:30 and 12:00 on Friday 18 September at the [EU PVSEC](#) in Hamburg.



**Note to editors:**

The European Photovoltaic Technology Platform is an initiative which aims at mobilising all the actors sharing a European vision and ambition for photovoltaic solar energy. The PV Platform is an independent and objective body which aims to be the recognised point of reference for key decision and policy makers. The Platform's Mission is to develop a strategy and corresponding implementation plan for education, research and technology development, innovation and market deployment of photovoltaic solar energy.

**For more information:**

Giorgia Concas, [g.concas@solarpowereurope.org](mailto:g.concas@solarpowereurope.org)

Greg Arrowsmith, [arrowsmith@eurec.be](mailto:arrowsmith@eurec.be)

Sofia Arancon, [Sofia.Arancon@wip-munich.de](mailto:Sofia.Arancon@wip-munich.de)

Arnulf Jäger-Waldau, [Arnulf.JAEGER-WALDAU@ec.europa.eu](mailto:Arnulf.JAEGER-WALDAU@ec.europa.eu)

