



Press Release

International Energy Agency Photovoltaic Power System Programme (IEA PVPS) has published two new reports on “Power System Operation Planning with PV Integration” and the last edition of large-scale PV systems “PV in the desert”.

The massive deployment of grid-connected PV in recent years has brought PV penetration into the electricity grids to levels where PV – together with other variable RES – have become a visible player in the electricity sector. This fact not only influences voltage and power flows in the local distribution systems, but also influences the demand-supply balance of the overall power system. In parallel the size of PV systems continued to grow to the extent that GW-scale systems could be developed in the coming years.

The first report released today discusses the key challenges for operating small- and wide area power systems with high penetrations of PV and presents solutions to operational planning, including balancing operation and generation dispatch, reducing variability and increasing flexibility. Power system case studies from 11 countries complement the theoretical investigations and highlight different approaches to accommodate high penetrations of PV and RES in various types of transmission systems. This report from IEA PVPS Task 14 shows a pathway for preparing the future transmission systems along the way towards PV as a major electricity source.

The second report released today discusses how very large scale solar PV electricity generation provides economic, social and environmental benefits, security of electricity supply and fair access to affordable and sustainable energy solutions. It closes 15 years of research that have paved the way for the integration of VLS-PV in the electricity world of today and tomorrow. This report from IEA PVPS Task 8 summarizes the benefits of large-scale PV in desert areas and the main challenges and opportunities associated.

The reports can be downloaded from the IEA PVPS website:

- Power System Operation Planning with PV Integration - <http://www.iea-pvps.org/index.php?id=322>
- Energy from the desert – 2015 Edition - <http://www.iea-pvps.org/index.php?id=316>

About IEA PVPS

The IEA Photovoltaic Power Systems Programme (PVPS) is one of the collaborative R&D Agreements established within the IEA and, since its establishment in 1993, the PVPS participants have been conducting a variety of joint projects in the application of photovoltaic conversion of solar energy into electricity. The 28 PVPS members are: Australia, Austria, Belgium, Canada, China, Denmark, EPIA, the European Union, France, Germany, the International Copper Alliance, Israel, Italy, Japan, Korea, Malaysia, Mexico, Netherlands, Norway, Portugal, SEIA, SEPA, Spain, Sweden, Switzerland, Thailand, Turkey and the United States of America.

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