



Firm PV Power – introduction to Task 16

Dave Renne

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Technology Collaboration Programme by Iea

What is IEA PVPS?



- The International Energy Agency (IEA), founded in 1974, is an autonomous body within the framework of the Organization for Economic Cooperation and Development (OECD).
- The Technology Collaboration Programme (TCP) was created with a belief that the future of energy security and sustainability starts with global collaboration.
- The Photovoltaic Power Systems Programme (PVPS) is one of the TCPs established within the IEA in 1993.
- The objective is to facilitate the role of photovoltaic solar energy as a cornerstone in the energy transition.

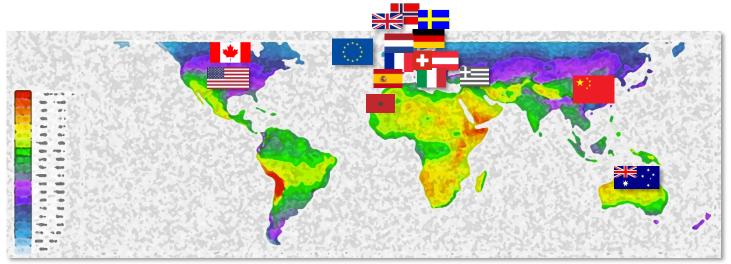




International Collaboration of Task 16



- Universities, research organizations, met services, and service providers
- 19 countries







Why a Solar Task?



- Solar resources are the fuel of PV, CSP and solar thermal energy
- Big PV and high penetration need high quality of meteorological information



- Added values
 - Independent benchmarks
 - State of the art descriptions
 - Lower uncertainties → lower costs of implementation → more PV
 - Main outcome: Solar Resource Handbook¹ updated regularly



Task organization



- Subtask 1: Measurements & Models (M. Sengupta, NREL, S. Wilbert, DLR)
 - Ground based methods models, benchmarking framework
- Subtask 2: Enhanced data & bankable products (P. Blanc, Mines Paristech)
 - Quality & format, long term variability, PV at urban scales, data for bifacial modules
- Subtask 3: Solar forecasting techniques (E. Lorenz, Fraunhofer ISE)
 - Regional forecasts, Probabilistic forecasts, All sky imagers, Firm PV power
- Subtask 4: Dissemination & Outreach (J. Remund, Meteotest)
 - Reports, Papers, Update of Solar Resource Handbook, Workshops, Webinar, online code archive

