



IEA PV Power Systems and Solar Heating & Cooling Programmes

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PVPS ExCo Member

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SHC ExCo Member

Mission Statements



- **PVPS**

- *To enhance the international collaborative efforts which facilitate the role of photovoltaic solar energy as a cornerstone in the transition to sustainable energy systems*

- **SHC**

- *International collaboration to fulfil the vision of solar thermal energy meeting 50% of low temperature heating and cooling demand by 2050*
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2013-2017 Focus Areas



- **PVPS** (26 countries, 5 associates)
 - PV technology development
 - Competitive PV markets
 - Environmentally & economically sustainable PV industry
 - Policy recommendations and strategies
 - Neutral and unbiased information

 - **SHC** (21 countries, 1 associate)
 - Components
 - Systems
 - Integration into energy system
 - Design and planning tools
 - Training and capacity building
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Current Activities



PVPS

Task 1: Information exchange & dissemination

Task 8: Very large scale PV systems

Task 9: PV services for regional development

Task 12: Environmental Safety & Health

Task 13: PV System Performance

Task 14: High Penetration PV in Electricity Grids

SHC

Task 39 - Polymeric Materials for Solar Thermal Applications

Task 40 - Net Zero Energy Solar Buildings

Task 42 - Compact Thermal Energy Storage

Task 43 - Solar Rating & Certification Procedures

Task 44 - Solar and Heat Pump Systems

Task 45 - Large Scale Solar Heating and Cooling Systems

Task 46 - Solar Resource Assessment and Forecasting

Task 47 - Solar Renovation of Non-Residential Buildings

Task 48 - Quality Assurance and Support Measures for Solar Cooling Systems

Task 49 - Solar Heat Integration in Industrial Processes

Task 50 – Advanced Lighting Solutions for Retrofitting Buildings

Task 51 – Solar Energy in Urban Planning

Current Australian Activities



- IEA PVPS:
 - ExCo Meetings – Muriel Watt (Mark Twidell)
 - PVPS Task 1 – PV Information Dissemination – Greg Watt
 - PV in Australia Report
 - PVPS Annual Report
 - PVPS Task 14 - High PV Penetration in Electricity Grids – Iain MacGill (Glenn Platt, Anna Bruce)
 - Australian Case Studies
 - PVPS Task 13 - Climate Based PV Module Ratings (ASI and CEC funding) – Lyndon Frearson (Anna Bruce, David Parleviet)
 - NREL PV Module Quality Assurance Taskforce (Sandy Pulsford)
- IEA SH&C:
 - ExCo Meetings – Ken Guthrie (Stephen White)
 - SHC Task 51 – PV in Urban Environments – Mark Snow
 - SHC Task 47 – Solar renovation of non-residential buildings - USyd