



SolarPACES
Concentrating Solar Power, Thermal,
and Chemical Energy Systems

Technology
Collaboration
Programme
by IEA

Solar Power, Thermal, and Chemical Energy Systems TCP



SolarPACES

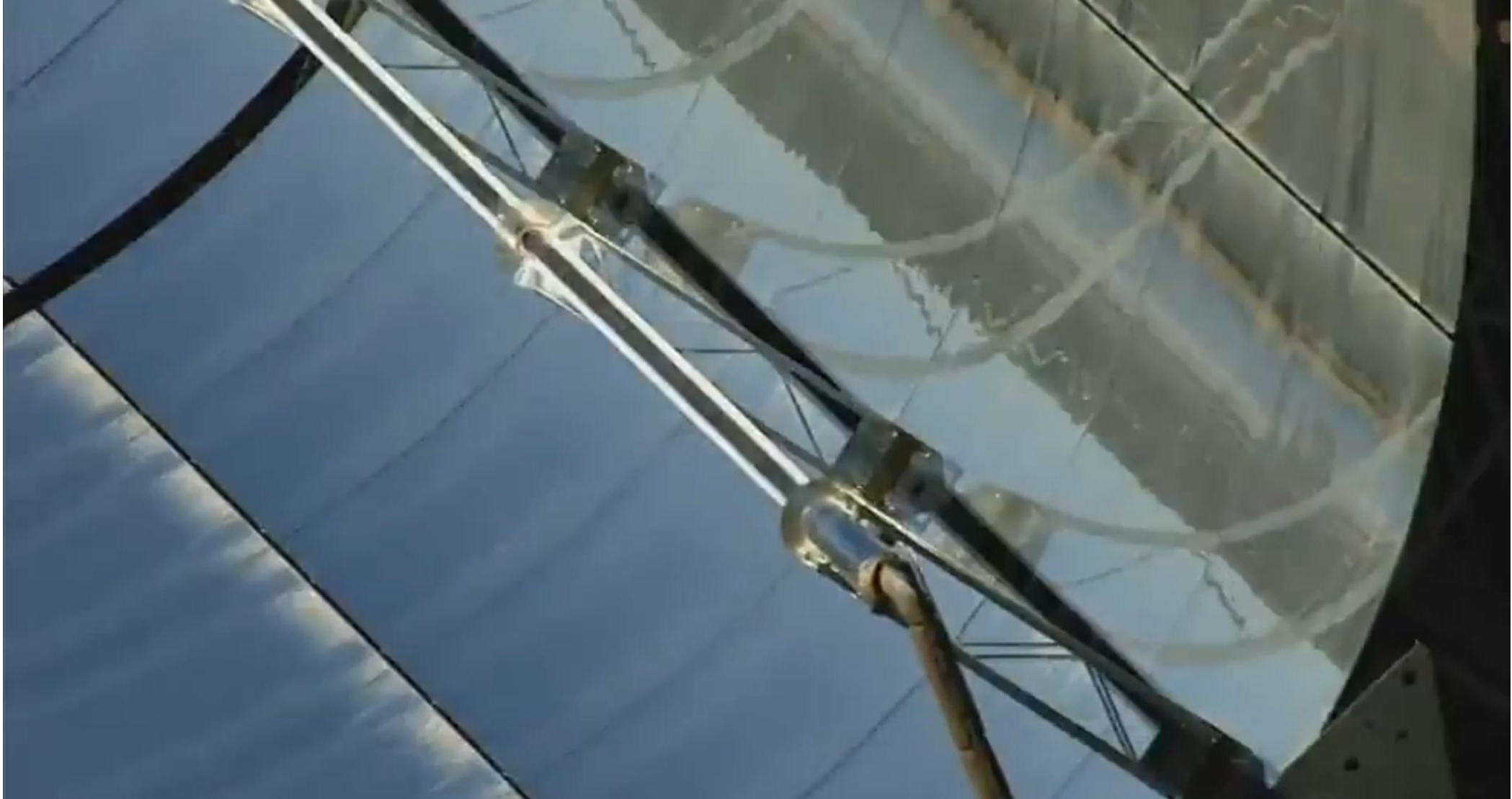
Concentrating Solar Power, Thermal,
and Chemical Energy Systems

September 15-18, 2026
Bad Neuenahr, Germany

32nd SolarPACES Conference

Robert Pitz-Paal, Benedikt Kölsch
SolarPACES Conference Chairs 2026







SolarPACES Vision & Mission

- **IEA SolarPACES VISION**

Our vision is that concentrating solar thermal (CST) technologies contribute significantly to the delivery of clean, sustainable energy worldwide.

- **IEA SolarPACES MISSION**

Our mission is to facilitate technology development, market deployment and energy partnerships for sustainable, reliable, efficient and cost-competitive CST technologies by providing leadership as the international network of independent experts.

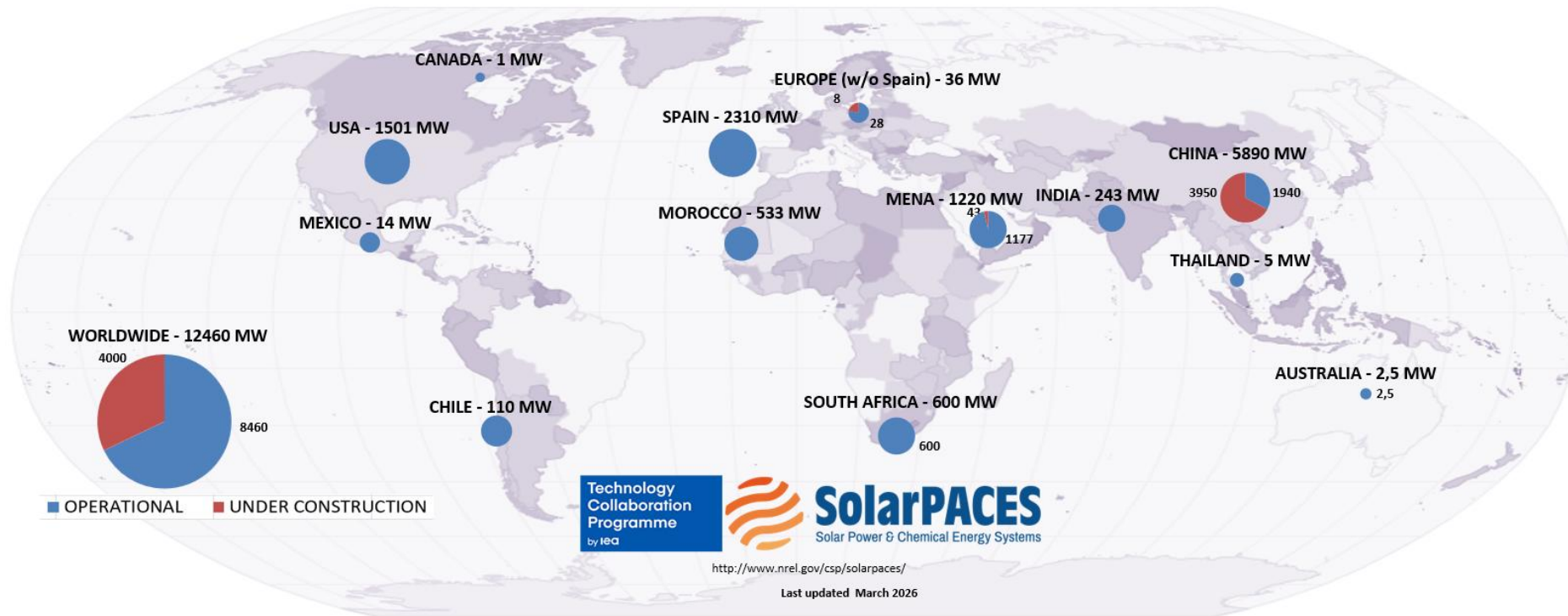
SolarPACES membership 2026



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- **Currently SolarPACES has 18 members:** Austria, Australia, China, European Commission, France, Germany, Italy, Mexico, Morocco, Namibia, Portugal, Republic of Korea, South Africa, Spain, Switzerland, United Arab Emirates and United States of America, and KTH of Sweden as Sponsor.

CSP global: 8,5 GW operational, 4 GW construction



- Current CSP Hot Spot: China
- Mexico starts new program, 100 MW under preparation

Solar Industrial process heat in progress, CST increasing!

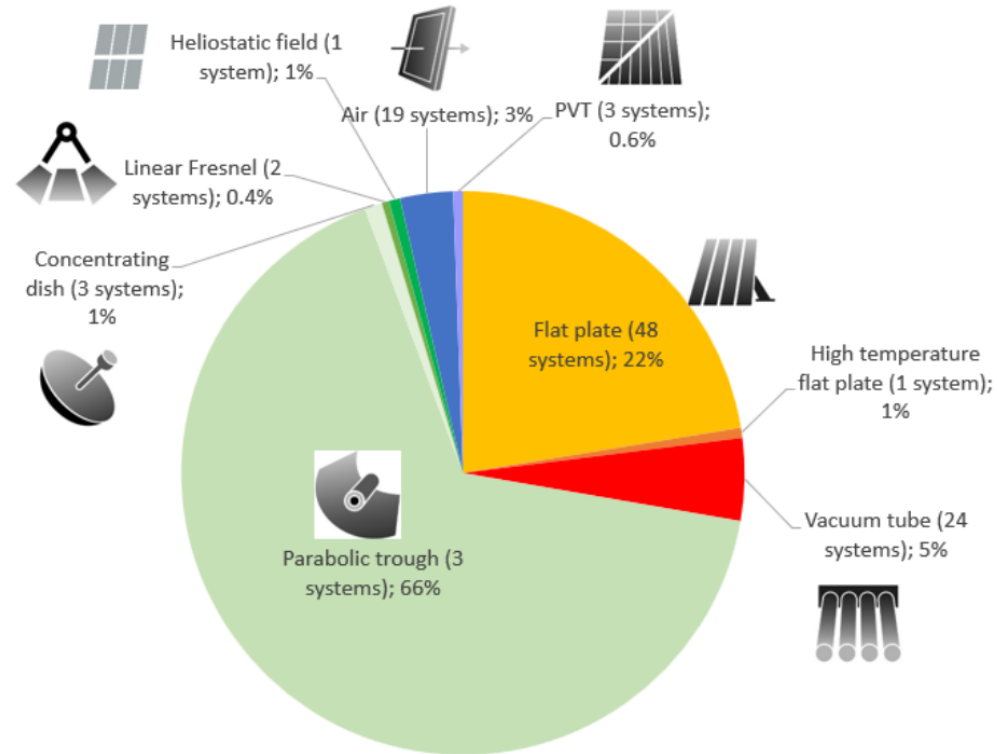


Figure 4: Distribution of collector type area in the SHIP world market 2024 (Total: 171,874 m²).

Only the two small systems with unglazed collectors totalling 326 m² are not illustrated. Source:

Survey 2025 of the companies listed on the SHIP Supplier World Map

Source: [Global SHIP market reaches five-year high despite national fluctuations | Solarthermalworld](https://www.solarthermalworld.com/news/global-ship-market-reaches-five-year-high-despite-national-fluctuations)

SolarPACES strategy

- **Coordinate and advance CST technology research by focussing on the next generation of technologies;**
- **Organize international conferences, workshops, reports and task meetings in order to facilitate technology development and market deployment;**
- **Develop guidelines and support standards in order to increase the transparency of the market and reduce risks associated with project development;**
- Provide information and recommendations to policy makers;
- Provide opportunities for joint projects in order to encourage energy partnerships between countries;
- Manage the undertaking of independent studies of strategic interest;
- Leverage our activities with other IEA implementing agreements and renewable energy organizations.



Several Task meetings on September 14th, 2026
Invitation by OA : contact secretariat@solarpaces.org

Organisation and tasks

SolarPACES Executive Committee

Dr. Aránzazu Fernández García, Chair, Spain
Dr. Wesley Stein, Vice-Chair, Australia
Dr. Zhifeng Wang, Vice Chair, China
Dr. Christoph Richter, Executive Secretary, Spain

Task I	Task II	Task III	Task IV	Task V
Solar Thermal Electric Systems	Solar Chemistry Research	Solar Technology and Advanced Applications	Solar Heat Integration in Industrial Processes	Solar Resource Assessment and Forecasting
OA: Dr. Mike Wagner,	OA: Dr. Woei Saw,	OA: Dr. Benedikt Kölsch	OA: Dr. Tobias Hirsch,	OA: Dr. Manuel Silva,
University of Wisconsin,	University of Adelaide,	DLR,	DLR,	University of Seville,
USA	Australia	Germany	Germany	Spain
CSP Acceptance Guidelines	Solar Production of Energy Carriers	Solar Components and Subsystems	Industrial Processes	Standardization and integration procedures for Data Bankability
CSP Performance Modeling	Solar Processing of Chemical Commodities	Supporting Tools and Test Facilities	Solar Thermal Collectors	Solar Irradiance Forecasting
CSP Projects Deployment	Solar Detoxification and Recycling of Waste Materials	Advanced Technologies and Applications	Solar Thermal Systems	Advanced Resource Modeling



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Plenary session with overview presentations

- I) SHC /SolarPACES Joint Session (Thermal Storage / SHIP)
- II) CPS around the world
- III) Bankability and Financing of Solar Thermal Projects
- IV) Solar Fuels & High-Temperature Applications

Abstract submissions SolarPACES 2026

Topics	335
Thermal Energy Storage Materials, Media, and Systems	78
Solar Fuels and Chemical Commodities	36
Analysis and Simulation of CSP Systems	25
Solar Industrial Process Heat and Thermal Desalination	25
Measurement Systems, Devices, and Procedures	24
Advanced Materials, Manufacturing, and Components	22
Receivers and Heat Transfer Media: Point Focus Systems	22
Operations, Maintenance, and Component Reliability	17
Digital Tools and AI in Concentrating Solar Technology	16
Emerging and Disruptive Concepts	15
Solar Collector Systems	15
Hybrid Systems	13
Receivers and Heat Transfer Media: Linear Systems	11
CSP Integration, Markets, and Policy	7
Power Cycles	4
Solar Resource Assessment	4
Commercial Projects	1

Country of submitter	335
Spain	89
Germany	75
Italy	24
France	19
United States of America	19
China	15
Sweden	14
Mexico	10
India	7
Switzerland	7
Australia	5
Chile	5
Morocco	5
South Africa	5
Turkey	5
United Kingdom of Great Britain and Northern	
Ireland	5
Japan	4
Korea, Republic of	4
Greece	3
Portugal	3
Uzbekistan	2
Algeria	1
Austria	1
Belgium	1
Czechia	1
Ecuador	1
Hungary	1
Pakistan	1
Qatar	1
Saudi Arabia	1
Thailand	1

Thank you very much for your attention!

Questions to: secretariat@solarpaces.org

Visit www.solarpaces.org

Visit www.solarpaces-conference.org



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