

PV Will Shine in the New Clean Energy Transition Partnership

SDV.2 Sustainability Aspects, Life Cycle Analysis and Recycling of PV/ Experiences from Solar Energy Adoption

Stefan Nowak and Marcel Gutschner, SOLAR-ERA.NET Coordination Office, c/o NET Nowak Energy & Technology Ltd., Waldweg 8, 1717 St. Ursen, Switzerland, stefan.nowak@netenergy.ch and marcel.gutschner@netenergy.ch
 Michael Hübner, Coordinator Clean Energy Transition Partnership, Federal Ministry for Climate Action, Environment, Energy, Mobility, Innovation and Technology, Radetzkystraße 2, 1030 Vienna, Austria, michael.huebner@bmk.gv.at
 Marko Topič, Chairman of European Technology and Innovation Platform Photovoltaics, University of Ljubljana, Trzaska 25, 1000 Ljubljana, Slovenia, marko.topic@fe.uni-lj.si

Solar power RDI projects have been supported for ten years on the transnational level within SOLAR-ERA.NET and based on the priorities identified by the European Technology and Innovation Platform Photovoltaics (ETIP-PV). In the future, this transnational support will be channelled through the new Clean Energy Transition Partnership.

SOLAR-ERA.NET

SOLAR-ERA.NET (www.solar-era.net) has been active since 2012 and presents a European network of national and regional funding organisations and research & innovation programmes in the field of solar electricity generation, i.e. PV and CSP.

➔ **Key mission: to support innovative industry-led research projects and increase cooperation between funding agencies and programmes.**

Key figures and facts 2012 - 2022

- 1 network
- 8 joint calls launched
- 17 countries and regions participating in joint calls
- 177 full proposals submitted
- 326 preproposals submitted

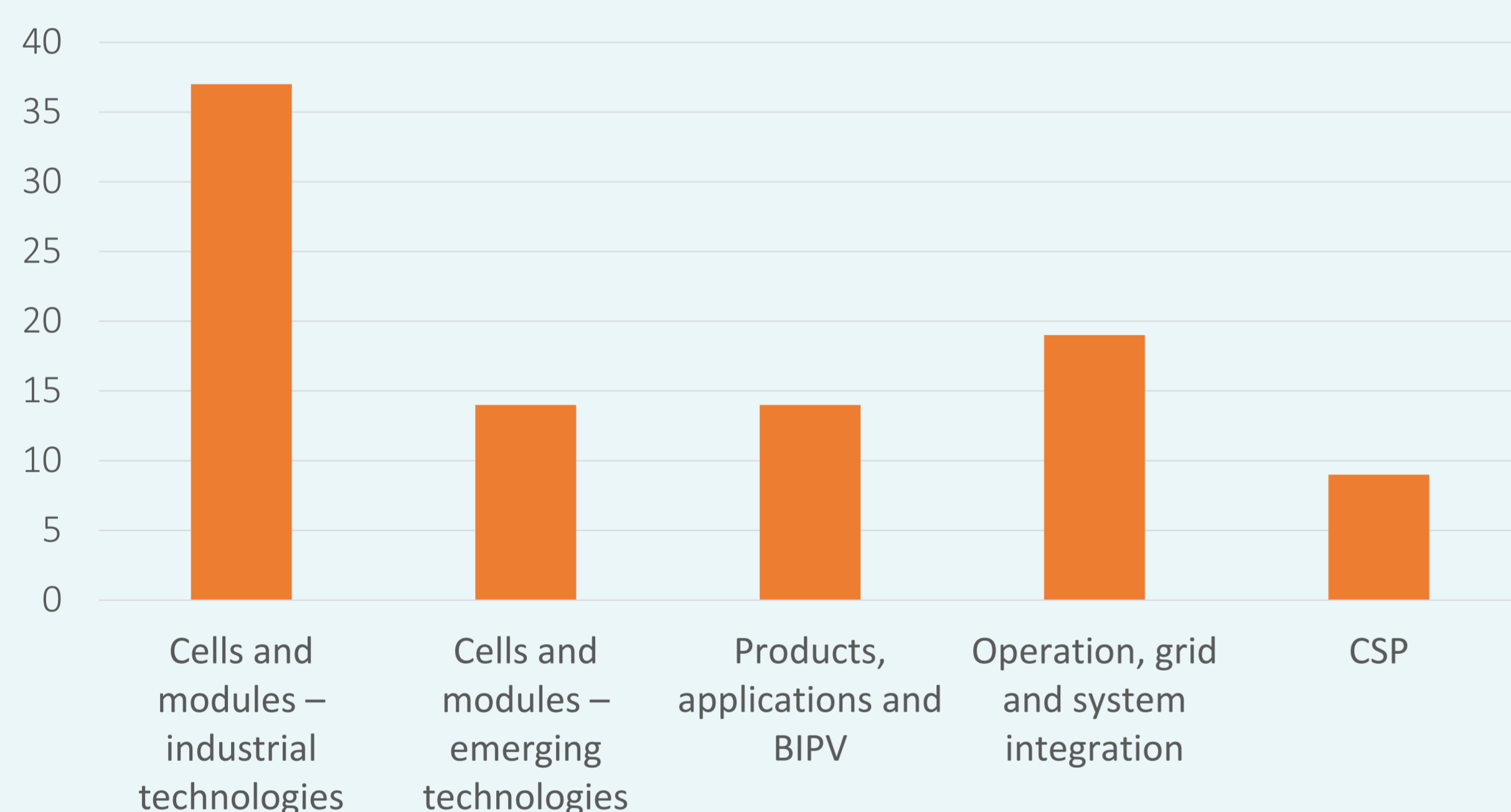
➔ **Key numbers: 93 transnational projects funded with a volume of 117 MEUR including public support of 79 MEUR**

Added-value for research and industry

- Complementarity between national and EU funded programmes
- Increasing strengths and reducing weaknesses
- Bringing together competences and skills across Europe
- Stepping stone for international cooperation
- Flexibility and bottom-up nature, no “one size fits all” approach
- New innovative routes for transnational medium-sized projects

➔ **Outcome: Stronger consortia, better outreach and higher impact**

93 transnational projects in five areas



Number of projects and their distribution among the topics based on ETIP Implementation Plan / Strategic Research & Innovation Agenda

Assets, challenges & opportunities

- Vast experience in transnational cooperation
- Competitiveness and contribution to security of energy supply
- Industry gaining momentum
- At today’s level of PV cost (LCOE), more issues become important:
 - Role of technology vs. cost, design, socio-economics, etc.
 - Challenge of sustainability (in all dimensions)
 - PV going everywhere
 - Impact of digitalization
 - Integration in the energy system

➔ **A unique opportunity: PV is becoming part of the backbone of the clean energy transition and the future energy system**

Clean Energy Transition Partnership

The Clean Energy Transition Partnership (CETPartnership) is a new transnational initiative (part of the European Partnerships under Horizon Europe) on joint Research, Technological Development, and Innovation (RTDI) programming, starting in 2022. SOLAR-ERA.NET is integrated in the CETPartnership.

➔ **Key mission: to accelerate the energy transition and to support the implementation of the European Strategic Energy Technology Plan.**

Key features of the new CETPartnership

- Network of 50 national and regional RTDI programme owners and managers from 30 countries launching
- Building a transnational transformative Joint Programming Platform
- Based on the Strategic Research and Innovation Agenda
- Annual joint calls each with funding budget of some 100 MEUR
- Call topics defined in Transition Initiatives (TRI)
- Funding for transnational projects contributing to the transition

➔ **Developing and demonstrating technologies and solutions for the transition of energy systems**

Call topics / Transition initiatives

- TRI 1: Integrated net-zero emissions energy system
- TRI 2: Enhanced zero emission power technologies
- TRI 3: Enabling climate neutrality with storage technologies, renewable fuels and CCU/CCS
- TRI 4: Efficient zero emission heating and cooling solutions
- TRI 5: Integrated regional energy systems
- TRI 6: Integrated industrial energy systems
- TRI 7: Integration in the built environment

➔ **New opportunities for the PV industry and research community**



Enter now and contribute to empower the clean energy transition. The first CETPartnership Joint Call is open till **23 November 2022** ! More information on www.cetpartnership.eu.