



SOLVE TEMA 2 - 2024-03-12

IEA PVPS Task 15

RISE Research Institutes of Sweden - Malin Unger, Energi och Resurser

Vad är IEA PVPS?



International Energy Agency
Photovoltaic Power Systems Programme



- IEA = International Energy Agency
- PVPS = Photovoltaic Power Systems Programme
- Ett samarbete för forskning och utveckling som sedan 1993 har genomfört en mängd olika gemensamma projekt för tillämpningen av fotovoltaisk omvandling av solenergi till elektricitet.

Mölnlycke Fabriker Parkeringshus
Foto: [@solcellsarkitektur](#)



RISE

Sverige del av flera "Tasks"

- › **T01 – Expertise-Outreach** Becquerel Sweden
- › **T12 – Sustainability** RISE + Dalarna University
- › **T13 – Performance & Reliability** RISE + MDU + Checkwatt
- › **T14 – Grid Integration**
- › **T15 – BIPV** RISE + White + Soltech Energy
- › **T16 – Solar Resource** SMHI + Uppsala University
- › **T17 – PV & Transport**
- › **T18 – Off-Grid & Edge-Grid**



International Energy Agency
Photovoltaic Power Systems Programme



Technology Collaboration Programme
by  International Energy Agency
Photovoltaic Power Systems Programme

HOME > RESEARCH TASKS > ENABLING FRAMEWORK FOR THE DEVELOPMENT OF BIPV

15 — Enabling Framework for the Development of BIPV

Task Managers

 FRANCESCO FRONTINI
francesco.frontini@upsi.ch

 HELEN ROSE WILSON
helen.rose.wilson@liso.fraunhofer.de

Task 15 - Enabling Framework for the Development of BIPV



FRANCESCO FRONTINI
francesco.frontini@supsi.ch



HELEN ROSE WILSON
helen.rose.wilson@ise.fraunhofer.de

- Phase 1 2016 - 2019
- Phase 2 2020 - 2023
- Phase 3 2024 - 2027

Smart is green, Hamburg
Zillerplus Architekten
Foto: Malin Unger



R.
I.
S.
E

“The overall objective of Task 15 is to create an enabling framework to accelerate the penetration and deployment of BIPV products in the global market of renewable energies and in the construction sector, ***resulting in an equal playing field for BIPV products, BAPV products and regular building envelope components***; respecting mandatory, aesthetic, reliability and financial issues.”

T15 - Phase 2

2020 - 2023

- 1 Subtask A : Technological Innovation System (TIS) analysis for BIPV
- 2 Subtask B : Cross-sectional analysis: learning from existing BIPV installations
- 3 Subtask C : BIPV guidelines
- 4 Subtask D : Digitalization for BIPV
- 5 Subtask E : Pre-normative international research on BIPV characterisation methods

The screenshot shows a grid of 20 publication cards from the PVPS website. A yellow circle highlights the top-left card, which is the report 'Analysis of the Technological Innovation System for BIPV in Sweden'. A dashed arrow points from the number 1 in the list above to this highlighted card. The other cards are arranged in four rows of five. Each card includes a thumbnail, the title, a brief description, and download/read more links.

Row	Column 1	Column 2	Column 3	Column 4	Column 5
1	PVPS Analysis of the Technological Innovation System for BIPV in Italy	PVPS Analysis of the Technological Innovation System for BIPV in Sweden	PVPS Guide for Technological Innovation System Analysis for Building-Integrated Photovoltaics 2023	PVPS Fire Safety of BIPV: International Mapping of Accredited and R&D Facilities in the Context of Codes and Standards 2023	PVPS BIPV Digitalization: Design Workflows and Methods – A Global Survey
2	PVPS Categorization of BIPV applications	PVPS Succesful Building Integration of Photovoltaics – A Collection of International Projects	PVPS Development of BIPV Business Cases – Guide for stakeholders	PVPS Multifunctional Characterisation of BIPV	PVPS BIPV Design and Performance Modelling: Tools and Methods
3	PVPS Coloured BIPV Market, Research and Development	PVPS Compilation and Analysis of User Needs for BIPV and its Functions	PVPS BIPV research teams & BIPV R&D facilities An international mapping, second version	PVPS International definitions of "BIPV"	PVPS Inventory on Existing Business Models, Opportunities and Issues for BIPV
4	PVPS BIPV Research Teams and BIPV RD Facilities An International Mapping				



Analysis of the TIS for BIPV in Sweden



- Följande behövs för att stärka BIPV i Sverige:
 - Fler BIPV-entreprenörer med olika bakgrund och fokus
 - Förbättrad teknisk vägledning för BIPV-installationer
 - Jämnnare spelplanen mellan BIPV och andra solcellsapplikationer
 - Kulturförändring inom bygg- och fastighetssektorn
 - Bygga starkare nätverk (internt och externt)



PVPS

**Analysis of the
Technological
Innovation System for
BIPV in Sweden
2024**

T15 - Phase 3

2024 - 2027



International Energy Agency
Photovoltaic Power Systems Programme



- Subtask A: Challenges and opportunities of BIPV in a de-carbonised and circular economy
- Subtask B : BIPV characterization & performance: pre-normative international research
- Subtask C : BIPV in the digital environment
- Subtask D: BIPV products, projects and demos: innovation and long-term behaviour
- Subtask E: BIPV training, dissemination and stakeholders' collaboration

Om ni har frågor om Sveriges del i IEA PVPS!



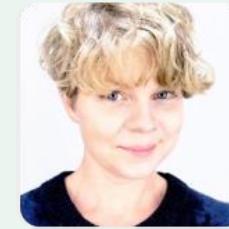
Michiel van Noord

Projektledare
michiel.van.noord@ri.se



Alexander Granlund

Forsknings- och utvecklingsingenjör
alexander.granlund@ri.se



Malin Unger

Projektledare/ Arkitekt
malin.unger@ri.se