

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](#)



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Sverige del av flera "Tasks"



International Energy Agency
Photovoltaic Power Systems Programme



- › **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**

Technology Collaboration Programme
by IED

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@supsi.ch

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

Task 15 - Enabling Framework for the Development of BIPV



FRANCESCO FRONTINI
francesco.frontini@supsi.ch



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

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

Smart is green, Hamburg
Zillerplus Architekten
Foto: Malin Unger



“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

Publications Research tasks Events About us

<p>PVPS Analysis of the Technological Innovation System for BIPV in Italy 2024</p> <p>Analysis of the Technological Innovation System for BIPV in Italy</p> <p>PDF Read more</p>	<p>PVPS Analysis of the Technological Innovation System for BIPV in Sweden 2024</p> <p>Analysis of the Technological Innovation System for BIPV in Sweden</p> <p>PDF Read more</p>	<p>PVPS Guide for Technological Innovation System Analysis for Building-Integrated Photovoltaics 2023</p> <p>Guide for Technological Innovation System Analysis for Building-Integrated Photovoltaics 2023</p> <p>PDF Read more</p>	<p>PVPS Fire Safety of BIPV: International Mapping of Accredited and R&D Facilities in the Context of Codes and Standards 2023</p> <p>Fire Safety of BIPV: International Mapping of Accredited and R&D Facilities in the Context of Codes and Standards 2023</p> <p>PDF Read more</p>	<p>PVPS BIPV Digitalization: Design Workflows and Methods – A Global Survey</p> <p>BIPV Digitalization: Design Workflows and Methods – A Global Survey</p> <p>PDF Read more</p>	<p>PVPS Analysis of the Technological Innovation System for BIPV in Spain</p> <p>Analysis of the Technological Innovation System for BIPV in Spain</p> <p>PDF Read more</p>
<p>PVPS Categorization of BIPV applications 2021</p> <p>Categorization of BIPV applications</p> <p>PDF Read more</p>	<p>PVPS Successful Building Integration of Photovoltaics – A Collection of International Projects</p> <p>Successful Building Integration of Photovoltaics – A Collection of International Projects</p> <p>PDF Read more</p>	<p>PVPS Development of BIPV Business Cases – Guide for stakeholders 2024</p> <p>Development of BIPV Business Cases – Guide for stakeholders</p> <p>PDF Read more</p>	<p>PVPS Multifunctional Characterisation of BIPV: Present Facts for Future International Harmonisation Activities 2023</p> <p>Multifunctional Characterisation of BIPV</p> <p>PDF Read more</p>	<p>PVPS BIPV Design and Performance Modelling: Tools and Methods</p> <p>BIPV Design and Performance Modelling: Tools and Methods</p> <p>PDF Read more</p>	<p>PVPS Analysis of requirements specifications regulation of BIPV</p> <p>Analysis of requirements specifications regulation of BIPV</p> <p>PDF Read more</p>
<p>PVPS Coloured BIPV Market, Research and Development</p> <p>Coloured BIPV Market, Research and Development</p> <p>PDF Read more</p>	<p>PVPS Compilation and Analysis of User Needs for BIPV and its Functions</p> <p>Compilation and Analysis of User Needs for BIPV and its Functions</p> <p>PDF Read more</p>	<p>PVPS BIPV research teams & BIPV R&D facilities: An international mapping, second version</p> <p>BIPV research teams & BIPV R&D facilities: An international mapping, second version</p> <p>PDF Read more</p>	<p>PVPS International definitions of "BIPV"</p> <p>International definitions of "BIPV"</p> <p>PDF Read more</p>	<p>PVPS Inventory on Existing Business Models, Opportunities and Issues for BIPV</p> <p>Inventory on Existing Business Models, Opportunities and Issues for BIPV</p> <p>PDF Read more</p>	<p>PVPS BIPV Research Teams and BIPV RD Facilities: An International Mapping</p> <p>BIPV Research Teams and BIPV RD Facilities: An International Mapping</p> <p>PDF Read more</p>

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
 - Jämnare spelplanen mellan BIPV och andra solcellsapplikationer
 - Kulturförändring inom bygg- och fastighetssektorn
 - Bygga starkare nätverk (internt och externt)



Task 15 Enabling Framework for the Acceleration of BIPV

PVPS

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

T15 - Phase 3 2024 - 2027



- 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