

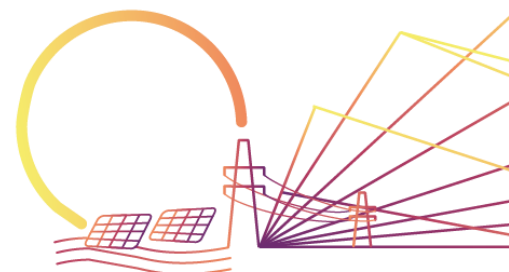


SERENDIPV

D9.8 List of journal and scientific articles

T9.5 Scientific and professional articles

| | |
|-----------------------------------|---|
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Summary

Report that compiles the list of the open access scientific and more general-purpose articles (i.e. in broader-audience technical magazines) that the partners have prepared and have been published in relevant media (print and on-line) targeting European audiences and where those articles were published.

This deliverable is an output of task T9.5

Document Information

| | |
|-------------------------|--|
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| Lead Beneficiary | WIP |
| Contributors | TEC |
| Distribution | PU– Public |
| Report Name | SERENDI-PV_D9.8 List of journal and scientific articles_v1 |

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| Date | Version | Prepared by | Organisation | Approved by | Notes |
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1 EXECUTIVE SUMMARY

1.1 Description of the deliverable content and purpose

This document contains the list of the open access scientific and more general-purpose articles (i.e. in broader-audience technical magazines) that the partners have prepared and have been published in relevant media (print and on-line) targeting European audiences, but also in the target countries, and where those articles were published.

It provides an overview of papers, posters & presentations published under the project is provided in the following sections.

EC promoted article centers, such as Zenodo, are embraced as the recommended platform for open-access publishing, and the partners have uploaded a copy of their publications in this open access repository (see column “repository Link in the tables below).

Articles are also published on the project website (<https://serendipv.eu/outputs/p-scientific-publications/>) and promoted via social media.

Besides, these publications have been uploaded into the System for Grant Management (**SyGMa**), in the continuous reporting section, under the “**Publications**” folder. In order to correlate and keep track of the information uploaded in the SyGMa with the information presented here, we have included in the “*publication number*” column (first column of the tables below) the same ID number that appears in SyGMa.

Some of the scientific papers recently published during the PVSEC2024 are not included in the list in this deliverable because still some important information is missing (as DOI, for example), although they will be uploaded into the SyGMa Portal directly later.

1.2 Reference material

This document used as reference the different versions of the Dissemination & Communication plans:

- D9.16: Draft Dissemination and Communication Plan – Confidential version
- D9.17: Interim Dissemination and Communication Plan – Confidential version
- D9.18: Final Dissemination and Communication Plan – Confidential version

1.3 Relation with other activities in the project

The different scientific papers are the output of the research work done on the different technical WPs (WP1 to WP8).

1.4 Abbreviation list

Table 1.1: Abbreviation list

| Abbreviation | Meaning |
|--------------|-----------------------------|
| SyGMa | System for Grant Management |

2 PUBLICATIONS IN CONFERENCE PROCEEDINGS / WORKSHOPS

SERENDI-PV partners presented the following publications in conferences and workshops ordered by year of publication (that it is not exactly the same order that the information introduced in the SyGMA):

Table 2.1: Presentations at conferences or workshops ordered by year of publication

| Pub N° | DOI | LINK to the publication and LINK to the open-access repository | TITLE of the publication | Title of the Journal/Proceedings/Books series/Book (for book chapters) | Year of publication | Peer-reviewed? | SERENDI partners |
|--------|----------------------------------|--|--|--|--------------------------|----------------|------------------|
| 2 | 10.4229/EUPVSEC20212021-6CV.4.41 | https://userarea.eupvsec.org/proceedings/EU-PVSEC-2021/6CV.4.41 https://zenodo.org/record/6597259 | Lessons learned from simulating the energy yield of an agrivoltaic project with vertical bifacial photovoltaic modules in France | 38th European photovoltaic solar energy conference (EU PVSEC 2021) | 2021 (September 8, 2021) | No | LUC |
| 3 | 10.4229/EUPVSEC20212021-5CV.3.8 | https://userarea.eupvsec.org/proceedings/EU-PVSEC-2021/5CV.3.8 https://zenodo.org/record/6597551 | Dynamic simulation of the shading cast by a wind farm on an adjacent photovoltaic plant | 38th European photovoltaic solar energy conference (EU PVSEC 2021) | 2021 (September 8, 2021) | No | LUC |
| 4 | 10.4229/EUPVSEC20212021-6BV.5.34 | https://userarea.eupvsec.org/proceedings/EU-PVSEC-2021/6BV.5.34 https://zenodo.org/record/6598791#.YpYXBi8Rr_R | The H2020 R&D Project SERENDI-PV: Innovating towards improved reliability, higher performance and dispatchable grid integration for photovoltaic systems | 38th European photovoltaic solar energy conference (EU PVSEC 2021) | 2021 (September 8, 2021) | No | ALL |
| 5 | 10.4229/EUPVSEC20212021-6CV.4.39 | https://userarea.eupvsec.org/proceedings/EU-PVSEC-2021/6CV.4.39 https://zenodo.org/record/6598989#.YpYrdi8Rr_Q | Simulating the energy yield of bifacial photovoltaic modules installed on carports or canopies | 38th European photovoltaic solar energy conference (EU PVSEC 2021) | 2021 (September 8, 2021) | No | LUC |
| 6 | 10.4229/EUPVSEC20212021-5CV.3.9 | https://userarea.eupvsec.org/proceedings/EU-PVSEC-2021/5CV.3.9 https://zenodo.org/records/12820565 | Dynamic and visual simulation of bifacial energy gain for photovoltaic plants | 38th European photovoltaic solar energy conference (EU PVSEC 2021) | 2021 | No | LUC |

| Pub N° | DOI | LINK to the publication and LINK to the open-access repository | TITLE of the publication | Title of the Journal/Proceedings/Books series/Book (for book chapters) | Year of publication | Peer-reviewed? | SERENDI partners |
|--------|----------------------------------|---|---|--|---------------------|----------------|------------------|
| 22 | 10.4229/EUPVSEC20212021-5CV.2.47 | https://userarea.eupvsec.org/proceedings/EU-PVSEC-2021/5CV.2.47/ https://zenodo.org/records/12821197 | State of the art and performance of the photovoltaic (PV) system fleet in Brussels: An analysis of 8000 PV installations | 38th European photovoltaic solar energy conference (EU PVSEC 2021) | 2021 | No | LUC |
| 42 | 10.1049/icp.2021.1539 | https://ieeexplore.ieee.org/document/9692468 https://www.researchgate.net/publication/356731145_Considerations_on_Communicating_with_Decentralized_Prosumer_Applications_Through_Home_Area_Network_and_Wide_Area_Network https://zenodo.org/records/13970985 | Considerations on Communicating with Decentralized Prosumer Applications Through Home Area Network and Wide Area Network | The 26th International Conference and Exhibition on Electricity Distribution - CIRED 2021 | 2021 | No | THU |
| 11 | 10.1049/icp.2022.2820 | https://ieeexplore.ieee.org/document/10081566 https://www.researchgate.net/publication/364344097_Automated_data_integration_of_residential_and_commercial_PV_systems_into_DSO_SCADA_utilising_IEC_61850_compliant_comprehensive_data_model | Automated data integration of residential and commercial PV systems into DSO SCADA utilising IEC 61850 compliant comprehensive data model | 21st Wind & Solar Integration Workshop (WIW 2022), Hybrid Conference, The Hague, Netherlands, 2022 | 2022 | No | THU, SGIS, FIB |
| 38 | 10.2991/978-94-6463-156-2_18 | https://www.atlantis-press.com/proceedings/ires-22/125987298 https://www.atlantis-press.com/proceedings/ires-22/125987298 | Flexible Operation of Electrolysis under Local Conditions and its Impact on the Medium Voltage Grid – A Study Case of an Industrial Area in the City of Ulm | Proceedings of the International Renewable Energy Storage Conference (IRES 2022) | 2022 | No | THU |

| Pub N° | DOI | LINK to the publication and LINK to the open-access repository | TITLE of the publication | Title of the Journal/Proceedings/Books series/Book (for book chapters) | Year of publication | Peer-reviewed? | SERENDI partners |
|--------|------------------------------|--|--|--|---------------------|----------------|------------------|
| 43 | 10.1049/icp.2022.0723 | https://ieeexplore.ieee.org/document/9841740 https://www.researchgate.net/publication/362275103_Field_testing_and_demonstration_of_a_smart_grid_ready_charging_park | Field testing and demonstration of a smart grid ready charging park | CIREC 2022 Porto Workshop: E-mobility and power distribution systems | 2022 | No | THU |
| 15 | 10.13140/RG.2.2.25383.62881 | https://www.researchgate.net/publication/364153103_Bifacial_Energy_Gain_of_Photovoltaic_Arrays_Installed_on_Highly_Reflective_Rooftops https://zenodo.org/records/12820758 | Bifacial Energy Gain of Photovoltaic Arrays Installed on Highly Reflective Rooftops | 8th World Conference on Photovoltaic Energy Conversion (WCPEC-8) | 2022 | No | LUC |
| 16 | 10.13140/RG.2.2.18672.74245 | https://www.researchgate.net/publication/363885924_Key_parameters_for_the_simulation_of_agrivoltaics_in_greenhouses_with_bifacial_PV_modules https://zenodo.org/records/12820809 | Key Parameters for the Simulation of Agrivoltaics in Greenhouses with Bifacial PV Modules | 8th World Conference on Photovoltaic Energy Conversion (WCPEC-8) | 2022 | No | LUC |
| 17 | 10.4229/WCPEC-82022-5DO.15.5 | https://userarea.eupvsec.org/proceedings/WCPEC-8/5DO.15.5/ https://zenodo.org/records/12820899 | A Solar PV profitability study as a function of wholesale market price variation patterns. | 8th World Conference on Photovoltaic Energy Conversion (WCPEC-8) | 2022 | No | BI |
| 25 | 10.1049/icp.2023.0723 | https://ieeexplore.ieee.org/document/10267227 https://www.researchgate.net/publication/372629922_Concept_And_Implementation_of_A_Grid_Simulation_Framework_Utilizing_Containerized_IEC_61850_Compatible_IED | Concept and implementation of a grid simulation framework utilizing containerized IEC 61850 compatible IED | 27th International Conference on Electricity Distribution (CIREC 2023) | 2023 | No | THU |

| Pub N° | DOI | LINK to the publication and LINK to the open-access repository | TITLE of the publication | Title of the Journal/Proceedings/Books series/Book (for book chapters) | Year of publication | Peer-reviewed? | SERENDI partners |
|--------|------------------------------|--|---|--|---------------------|----------------|------------------|
| 26 | 10.1049/icp.2023.0561 | https://ieeexplore.ieee.org/abstract/document/10267109 https://www.researchgate.net/publication/374223419_Demonstration_of_a_concept_for_the_data_management_and_monitoring_of_larger-scale_DER_utilizing_a_time-series_database | Demonstration of a concept for the data management and monitoring of larger-scale DER utilizing a time-series database | 27th International Conference on Electricity Distribution (CIRED 2023) | 2023 | No | THU |
| 31 | 10.4229/EUPVSEC2023/5DV.3.26 | https://userarea.eupvsec.org/proceedings/EU-PVSEC-2023/5DV.3.26/ https://zenodo.org/records/12821384 | Comparative Profitability Assessment of PV + BESS for Different Configurations and Business Models | 40th European photovoltaic solar energy conference (EU PVSEC 2023) | 2023 | No | BI |
| 32 | 10.4229/EUPVSEC2023/3AV.3.33 | https://userarea.eupvsec.org/proceedings/EU-PVSEC-2023/3AV.3.33/ https://zenodo.org/records/12821470 | Assessing uncertainties from reflected irradiance in bifacial PV simulations through a 3D view factor model and rear sensor measurements | 40th European photovoltaic solar energy conference (EU PVSEC 2023) | 2023 | No | CEA |
| 33 | 10.5281/zenodo.12166893 | https://userarea.eupvsec.org/proceedings/EU-PVSEC-2023/5DO.11.1/ https://zenodo.org/records/12166893 | On the full potential and role of different solar photovoltaic system technologies in the Iberian energy transition | 40th European photovoltaic solar energy conference (EU PVSEC 2023) | 2023 | No | LUT |
| 36 | 10.4229/EUPVSEC2023/4CO.8.3 | https://userarea.eupvsec.org/proceedings/EU-PVSEC-2023/4CO.8.3/ https://zenodo.org/records/12821530 | Combination of a novel All Sky Imager based approach for high-resolution solar irradiance nowcasting with persistence and satellite nowcasts for increased accuracy | 40th European photovoltaic solar energy conference (EU PVSEC 2023) | 2023 | No | FHG |
| 44 | | <i>Not yet available</i> | A Novel Container-based Approach for Integrating Solar Forecast in Real-time Simulation Framework and Model Predictive Control | CIRED 2024 Vienna Workshop | 2024 | No | THU, SGIS |

| Pub N° | DOI | LINK to the publication and LINK to the open-access repository | TITLE of the publication | Title of the Journal/Proceedings/Books series/Book (for book chapters) | Year of publication | Peer-reviewed? | SERENDI partners |
|--------|-----|---|--|--|---------------------------|----------------|------------------|
| 47 | | https://www.researchgate.net/publication/384729332_Shaping_European_Collaboration_on_Photovoltaics_A_Collaborative_Platform_For_Simulation_And_Monitoring_COPLASIMON/references | Shaping European Collaboration on Photovoltaics: A Collaborative Platform For Simulation And Monitoring (COPLASIMON) | 41st European photovoltaic solar energy conference (EU PVSEC 2024) | 2024 (September 30, 2024) | No | LUC |

3 PUBLICATIONS IN SCIENTIFIC MAGAZINES

The following Table presents articles published by the project's partners in scientific magazines (most of them peer-reviewed) ordered by year of publication (that it is not exactly the same order that the information introduced in the SyGMA). In total, the project was mentioned in 15 peer-reviewed journals.

Table 3.1: Articles published by the project's partners in Scientific magazines

| Pub N° | DOI | LINK to the publication and LINK to the open-access repository | TITLE of the publication | Title of the Journal/Proceedings/Books series/Book (for book chapters) | Year of publication | Peer-reviewed? | SERENDI partners |
|--------|---|--|---|--|---------------------|----------------|-----------------------|
| 21 | 10.1109/JPHOTOV.2021.3093049 | https://ieeexplore.ieee.org/abstract/document/9502105 https://zenodo.org/records/12821117 | Performance Analysis and Degradation of a Large Fleet of PV Systems | IEEE Journal of Photovoltaics | 2021 | Yes | LUC |
| 1 | 10.1016/j.apenergy.2021.118360 | https://www.sciencedirect.com/science/article/pii/S0306261921016056#! https://zenodo.org/record/6597185 | Powering an island energy system by offshore floating technologies towards 100% renewables: A case for the Maldives | Applied Energy | 2022 | Yes | LUT |
| 7 | 10.3390/en15041552 | https://www.mdpi.com/1996-1073/15/4/1552 | Implementation and Test of an IEC 61850-Based Automation Framework for the Automated Data Model Integration of DES (ADMID) into DSO SCADA | MPDI Energies | 2022 | Yes | THU |
| 8 | 10.1016/j.energy.2022.124629 | https://www.sciencedirect.com/science/article/pii/S0360544222015328 | Global-local analysis of cost-optimal onshore wind turbine configurations considering wind classes and hub heights for all regions of the world | Energy | 2022 | Yes | LUT |
| 10 | 10.1002/solr.202200582 | https://onlinelibrary.wiley.com/doi/10.1002/solr.202200582 | State-of-Play and Emerging Challenges in PV Energy Yield Simulations: a Multi-case Multi-model Benchmarking Study | Wiley Online Library - RRL Solar Journal / 8th World Conference on | 2022 | No | CEA, CYT; SGIS, AKUO, |

| Pub N° | DOI | LINK to the publication and LINK to the open-access repository | TITLE of the publication | Title of the Journal/Proceedings/Books series/Book (for book chapters) | Year of publication | Peer-reviewed? | SERENDI partners |
|--------|---|--|--|--|---------------------|----------------|------------------|
| | | https://zenodo.org/records/12820705 | | Photovoltaic Energy Conversion (WCPEC-8) | | | CNR, QPV, FhG, |
| 23 | 10.1002/pip.3659 | https://onlinelibrary.wiley.com/doi/10.1002/pip.3659 https://doi.org/10.1002/pip.3659 | Reflecting the energy transition from a European perspective and in the global context—Relevance of solar photovoltaics benchmarking two ambitious scenarios | Progress in Photovoltaics | 2022 | Yes | LUT, BI, TEC |
| 20 | 10.1038/s41597-023-01951-4 | https://www.nature.com/articles/s41597-023-01951-4 https://zenodo.org/records/12820960 | A crowdsourced dataset of aerial images with annotated solar photovoltaic arrays and installation metadata | www.nature.com/scientificdata | 2023 | Yes | LUC |
| 24 | 10.3390/en16093654 | https://www.mdpi.com/1996-1073/16/9/3654 | Experimental Performance Evaluation of a PV-Powered Center-Pivot Irrigation System for a Three-Year Operation Period | Energies | 2023 | Yes | QPV |
| 37 | 10.1109/JPHOTOV.2023.3319022 | https://ieeexplore.ieee.org/document/10268669 https://doi.org/10.1109/JPHOTOV.2023.3319022 | Role of solar photovoltaics for a sustainable energy system in Puerto Rico in the context of the entire Caribbean featuring the value of offshore floating systems | IEEE Journal of Photovoltaics | 2023 | Yes | LUT |
| 28 | https://doi.org/10.1002/pip.3731 | https://onlinelibrary.wiley.com/doi/10.1002/pip.3731 https://zenodo.org/records/11186958 | On Outdoor Testing Procedures of Large Samples of PV Modules | Progress in Photovoltaics: Research and Applications | 2024 | Yes | QPV |
| 39 | 10.1016/j.jclepro.2024.139653 | https://www.sciencedirect.com/science/article/pii/S095965262403039653 | Evaluation of the bifaciality coefficient of bifacial photovoltaic modules under real operating conditions | Journal of Cleaner Production | 2024 | Yes | LUC |

| Pub N° | DOI | LINK to the publication and LINK to the open-access repository | TITLE of the publication | Title of the Journal/Proceedings/Books series/Book (for book chapters) | Year of publication | Peer-reviewed? | SERENDI partners |
|--------|---|--|---|--|---------------------|----------------|------------------|
| | 023.139807 | https://zenodo.org/records/12821587 | | | | | |
| 40 | 10.1016/j.solener.2023.112228 | https://www.sciencedirect.com/science/article/pii/S0038092X23008629 https://zenodo.org/records/12821640 | Impact of backtracking strategies on techno-economics of horizontal single-axis tracking solar photovoltaic power plants | Solar Energy | 2024 | Yes | LUT |
| 41 | 10.1016/j.solener.2024.112319 | https://www.sciencedirect.com/science/article/pii/S0038092X24000136 | Blending of a Novel All Sky Imager Model with Persistence and a Satellite Based Model for High-Resolution Irradiance Nowcasting | Solar Energy | 2024 | Yes | FHG |
| 45 | https://doi.org/10.1016/j.enbuild.2024.114484 | https://www.sciencedirect.com/science/article/pii/S0378778824006005?via%3Dihub | Digitalising BIPV energy simulation: A cross tool investigation | Energy and Buildings | 2024 | Yes | LUC |
| 46 | https://doi.org/10.3390/en17174289 | https://www.mdpi.com/1996-1073/17/17/4289 | Improving Module Temperature Prediction Models for Floating Photovoltaic Systems: Analytical Insights from Operational Data | MDPI energies | 2024 | Yes | FHG |

4 KPIS IN GRANT AGREEMENT RELATED WITH PAPERS.

| Dissemination & Communication Tool | Objectives/KPIs | Status at M48 |
|------------------------------------|-------------------------------------|---|
| Scientific papers | 10 Open-Source Peer-Reviewed papers | <p>14 Open-Source Peer-Reviewed papers published in scientific magazines.</p> <p>1 Open-Source paper published in scientific magazines.</p> <p>21 Open-Source papers published in conference proceedings / workshops</p> |