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Large-Area Perovskite Solar Module Manufacturing with High  
Efficiency, Long-Term Stability and Low Environmental Impact  
(Acronym: LAPERITIVO)



## **LAPERITIVO – Report**

D8.4 – Project Management Plan

**Grant Agreement n°101147311**



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## About LAPERITIVO

In recent years, organometal halide perovskite-based photovoltaics (PV) have attracted great interest for their high-power conversion efficiency at low manufacturing cost. Presently, East Asia especially China and North America are rapidly ramping up towards mass production of perovskite PV. More efforts are urgently needed for perovskite PV upscaling in Europe. LAPERITIVO focuses on the development of large-area stable perovskite solar modules, using processes with high manufacturability. Efficiency targets are 22% and 20% for 900 cm<sup>2</sup> opaque and semi-transparent (with >95% bifaciality) modules, respectively. Key research activities include the deposition of high-quality perovskite films as well as contacting layers over large substrate area using industrially viable techniques. Indoor and outdoor field tests, in line with International Electrotechnical Commission (IEC) standards, will be performed to monitor module reliability. Safety, circularity, and sustainability will be assessed to demonstrate products with minimized environmental impact. The developed semi-transparent modules will be applied to perovskite/silicon four-terminal tandem modules and also to Agrivoltaics. Design of perovskite PV pilot line of 200 MW and production capacity of 5 GW in Europe will also be explored. The well-balanced consortium consists of 20 complementary partners including 8 European leading research institutes/universities (IMEC, UNITOV, EMPA, Fraunhofer ISE, IPVF, CNRS, CSEM, Hellenic Mediterranean University), 1 African research institute (Green Energy Park, Morocco), 5 small and medium-sized enterprises (Becquerel Institute, Becquerel Institute France, Becquerel Institute Spain, Dyenamo, TSE Troller, SmartGreenScans, BeDimensional), and 6 big companies (Pilkington Technology Management Limited (PTML), Singulus Technologies, Voltec Solar, Engie, TotalEnergies, EDF). In this way, the project aims to establish the pathway to open the era of manufacturing perovskite-based next-generation PV products in Europe.

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## Abbreviations and acronyms list

Abbreviation	Meaning
COO	Coordinator
PO	Project Officer
BEN	Beneficiaries
AE	Affiliated entities
AP	Associated partners
EB	Executive Board
ExB	Exploitation Board
PMP	Project Management Plan
SB	Steering Board
WBS	Work Breakdown Structure
WP	Work Package
WPL	Work Package Leader
GA	Grant Agreement
EC	European Commission
KER	Key Exploitable Results

## 1. Executive Summary

This deliverable is an internal deliverable describing the detailed Project Management Plan (PMP) with a Gantt Chart and a Work Breakdown Structure (WBS), including a schedule per task, responsible partner, related subtasks, related deliverables, and dependencies with respect to other tasks.