LUMINOSITY

LARGE AREA UNIFORM INDUSTRY COMPATIBLE PEROVSKITE SOLAR CELL TECHNOLOGY

LUMINOSITY is an industry driven project aimed at leveraging the flexible perovskite solar cells technology to commercially relevant production scales, using established industrial processes.

LUMINOSITY will promote flexible perovskite solar cell technology to commercially relevant production scales using industrially proven roll-to-roll (R2R) processing methods, targeting photovoltaic module power conversion efficiency of >20% at an area of >900 cm^2, by closing the efficiency gap between lab-scale and fab-scale processed devices, and by bringing TRL up to 7.

The final product is a R2R produced, flexible single-junction perovskite PV module that is processed on an aluminium foil. LUMINOSITY target operational stability exceeding 20 years that rivals the lifetime of current commercial thin film PV technologies, while ensuring economic and environmental feasibility.

WWW.LUMINOSITY-PROJECT.EU

OBJECTIVES

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COOPERATION

TNO
HZB Helmholtz Zentrum Berlin
Fraunhofer FEP
CNR-ISM
EnergyFoils
Empa Materials Science and Technology
TU/e
MAX IV LABORATORY
AMIRES The Business Innovation Management Institute z.ú.
CPV Infinity
VON ARDENNE
LPKF Laser & Electronics
UHASSELT KNOWLEDGE IN ACTION
Cyprus University of Technology
LIFTPV lifting solar beyond limits
Perovion

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