



MultiSensor sorting tools in a circular economy approach for the efficient recycling of PVB interlayer material in high-quality products from laminated glass construction and demolition waStEs.

SUNRISE (MultiSensor sorting tools in a circular economy approach for the efficient recycling of PVB interlayer material in high-quality products from laminated glass construction and demolition waStEs.) is an ambitious project funded by the European Commission with about **8.040.302,51 Euro**. The project started in June 2021 and within **42 months period**, it aims increase the collection and treatment of laminated glass, improving the **separation of glass from PVB** and therefore increasing the fractions and quality of PVB for reuse . In order to ensure the success, the project counts with glass recycling associations and companies and main actors in mechano-chemical treatment of PVB and optical in-line systems.

LUREDERRA coordinates a multi-actor project consortium composed of 20 partners from **7 different EU countries**: IREC, Ingeniería Navarra Mecánica (INM), DENUO, Minerali Industriali, Dismeco srl, bio-mi, NTUA, Next Technology, Ariño Duglass, Met., HEVADEX, RADICI, idener, Politecnico di Torino, AMTE Power, LENZ, DIN, WARRANT HUB, CETIM.

The project will introduce an innovative **multisensor sorting tool** based on industrial in-line techniques (Raman, IRS, Fluorescence and Optical Spectroscopy) making use of optimised tailored hardware and AI algorithms which will allow optimal classification of laminated glass according to composition and degradation. Subsequently an innovative patented mechano-chemical process will allow the efficient separation of glass from PVB avoiding degradation of the polymer. The main objective of the project SUNRISE is to demonstrate at European level within the current **glass recycling business**, the application of an advanced sorting platform based on an innovative multisensor tool able to provide information from PVB quality in laminated glass wastes, allowing the tailored mechanochemical treatment for **purification of PVB by-product**.

SUNRISE will have a significant positive impact on **environment, health, safety** Improving significantly the **economic** viability and **market potential** and **creating added value and new jobs**. It also will develop **recycling technologies** and solutions through generated know-how and promoting socially innovative solutions.



"This project has received funding from the European Union's Horizon 2020 research and innovation programme under grant agreement No 958243".



SUNRISE



MORE INFO

PROJECT TITLE: MultiSensor sorting tools in a circular economy approach for the efficient recycling of PVB interlayer material in high-quality products from laminated glass construction and demolition wastes

PROJECT ACRONYM: SUNRISE

START/END: 1 June 2021/30 November 2024

TOPIC: Raw materials innovation for the circular economy: sustainable processing, reuse, recycling and recovery schemes

EU CONTRIBUTION: 8.040.302,51 Euro

PROJECT WEBSITE: <https://sunrise-project.eu>

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