

Research Group

ICTM – Business Ecosystem Management

Circular business models for the solar power industry: EU-H2020 Project CIRCUSOL

Project Description

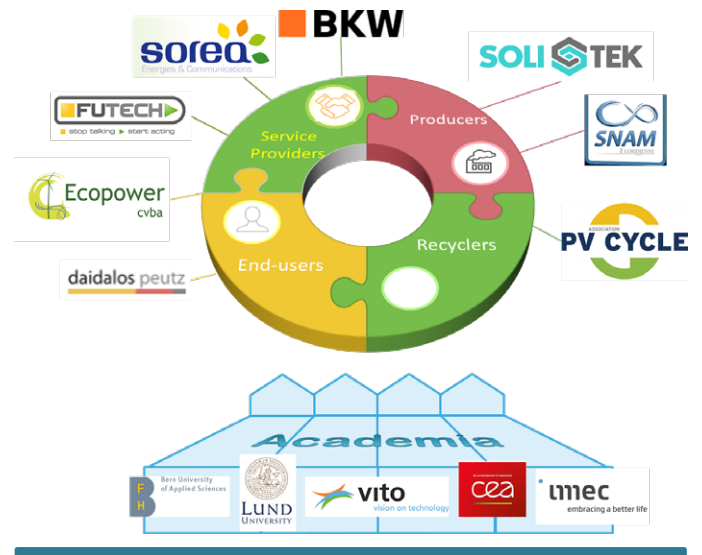
Solar power is a rapidly growing industry. The main objective of the **EU-H2020 research project CIRCUSOL** is to provide systemic circular business solutions to the solar power industry. The solar power sector is well suited for such business models. They have the potential to deliver double benefits on resource efficiency and low carbon emission.

Project Objectives

- **Demonstrate real benefits of product-service business models for resource efficiency in the solar power sector** by installing second-life PV-modules and batteries in three large-scale demonstrators under contracts in the project; and by simulating the long-term impact on circular economy indicators with the diffusion of designed business models.
- **Demonstrate market potential and business viability of solar power business models** in five large-scale real-life demonstrators covering three major end-user segments (residential, commercial and utility) in three European countries (France, Belgium, Switzerland). Early market adoption at regional level will be tested in two of the demonstrators.
- **Pave way for high supply quality and market confidence in second-life PV panels and batteries** by developing cost-effective labelling and certification protocols, which will be delivered to standardization committees and EU Ecolabelling initiatives before the end of the project.
- **Underpin economic viability of remanufactured electric vehicle (EV) battery for stationary renewable applications**, by developing an in-depth cost and application analysis for remanufactured EV batteries, and by deploying the remanufactured batteries at two demonstrator sites under commercial contracts.

Project Partner

The CIRCUSOL consortium has 10 industrial partners, representing the full supply chain: manufacturer, energy service provider, remanufacturer, recycler, and producer responsibility organization. Civil society participation is strong. End-user perspective is represented. Adjacent actors, such as the financing sector and public authorities, are engaged through the project stakeholder network.



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