



EL PARTNER
TECNOLÓGICO

LEITAT
Technological Center



PV-MOREDE Project

Marta Escamilla
Sustainability Division



PROGRAMME

ECOINNOVATIVE CHALLENGES FOR THE PHOTOVOLTAIC SECTOR

(29 of September 2016)

The 'Ecoinnovative Challenges for the Photovoltaic sector' event is a great opportunity to discuss the challenges, trends and innovations for the photovoltaic sector among photovoltaic modules manufacturers, researchers, recycling companies, experts and users.

An innovative mobile technology for recycling photovoltaic panels that emerges from the European PV-MOREDE project, will be presented to the assistants.

Location. LEITAT Technological Centre. Carrer de la Innovació, 2, 08225 Terrassa, Barcelona.

09:00 - 09:45 LEITAT visit (optional)

10:00 - 10:15 Welcome LEITAT

SESSION 1: PV-MOREDE PROJECT- An Innovative System For Recycling PV Panels

10:20 - 10:40 Presentation of the PV-MOREDE project

Mrs. Marta Escamilla, LEITAT

10:40 - 11:00 Environmental and Economic benefits of recycling PV panels

Mrs. Laia Puigmal, LEITAT

11:00 - 11:20 COFFEE-BREAK & NETWORKING

11:20-11:40 R&D Financing instruments at European level

Mr. Lara Valentin, LEITAT

11:40 - 13:00 Description of the technical aspects of the innovative PV-MOREDE technology

Mrs. Roberta Vinciguerra, La Mia Energia

13:00 - 14:00 LUNCH BREAK

SESSION 2: NEW OPPORTUNITIES FOR PHOTOVOLTAICS SECTOR

14:00 - 15:30 ROUND TABLE OF SUCCESSFUL PROJECTS

- CABRISS Project
Mr. Luc Federzoni, CEA
- ELSÍ Project
Mr. Pablo Valderrama, SECARTYS
- E2SG Project
Mr. Jordi Ricart/ LEITAT

15:30 - 16:00 NEW PV TECHNOLOGIES : What about their recyclability?

PhD. Mónica Della Pirriera, LEITAT

Closure



PV Mo.Re.De.
Photo Voltaic Panel



➤ **CIP ECOINNOVATION CALL:** First application and market replication projects
Call 2012



Co-funded by the Eco-innovation
Initiative of the European Union



➤ **TIMELINE:**

Start date: 01/Oct/2013 End date:30/Set/2016

➤ **BUDGET:**

Total budget: 911.887€

Total EC Contribution: 455.943€

➤ **PARTNERS :**





PV-Mo.Re.De. is a mobile plant for the recycling of disused photovoltaic modules aimed at recovering raw materials and energy

- Aluminum
- Glass
- Copper
- Fotosensible metals
- Light Compounds: plastics like EV, Tedlar, silicones



It is able to operate directly in the location where the PV modules are installed, in recycling plants, or in the manufacturing factories

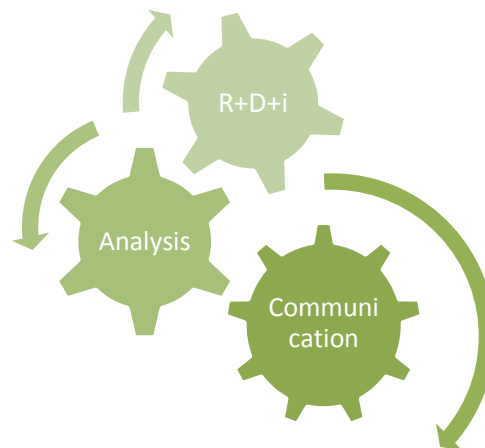


OBJETIVES



- **Recovery** of different types of **waste**: glass, metals fotosensibles and light compounds (plastics)...
- **Quantification** of the **environmental and economic impact** of recycling PV panels, based on Life Cycle Analysis (LCA) methodology.
- **Communication** of the **benefits** from la recuperation de material

Contribution to a **reduction of non renewable resources consumption**, Fostering **circular economy**

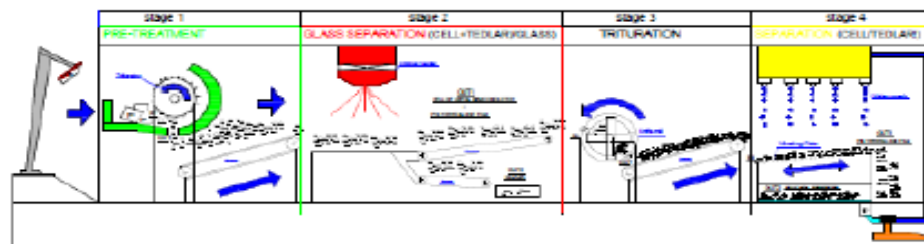




METHODOLOGY



1. **Exhaustive study** of all **European legislation** applicable to photovoltaic panels, their recycling treatments and valorisation
PESTEL Analysis : Political, Economics Sociological, Technological, environmental and Legal aspects , related to PV recycling.
2. **Device mobile** installed on a truck where the different process units are settled.
Pilots in Italia, Spain, Germany y France



3. **LCA of** the device to analyse environmental impacts along their lifecycle, considering raw materials, fabrication, operation and their end of life .
4. **Cost/benefit Analysis** based on Life Cycle Costing (LCC) methodology.
5. **Exploitation Plan**

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SOCIAL NET:



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LEITAT
managing your technologies

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