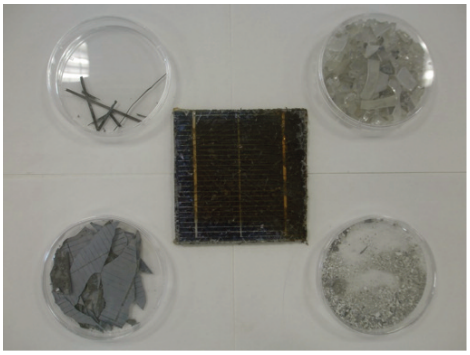
NACE CODE E38

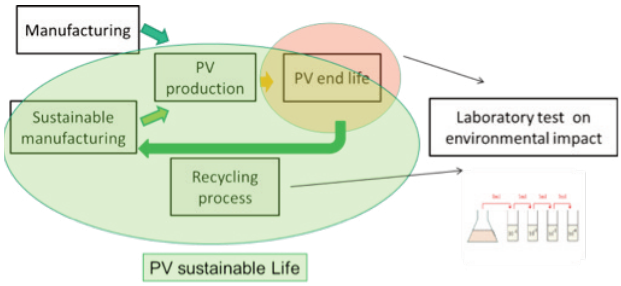
ENVIRONMENTAL RISK ASSESSMENT OF PRODUCTS AND PROCESSES IN THE PHOTOVOLTAIC INDUSTRY

Innovations and benefits - Environmental risk assessment of products and processes in the electrical and electronics industry, such as the photovoltaics one, with particular attention to end-of-life management.

Use - Consultancy and studies for the development of eco-friendly business strategies aimed at solving problems related to the treatment, disposal and recycling of electrical and electronic equipment, such as photovoltaic panels.
The service user can be identified in any category of small and medium-sized enterprises whose production cycle uses similar products.
The user can be identified in the company that performs the recovery and recycling of materials from photovoltaic waste, also and above all in the light of Legislative Decree 49/2014 which requires the recovery of 80% by weight of the panels. In fact, the service offered could improve the process of separation and recovery of the components of a photovoltaic panel, improving the technological performance of the process. All that always followed by an assessment of eco-sustainability of the materials and the recovery process.

Applications and ongoing Activities - External contract having as subject "Experimental study to analyze the risk of release of dangerous elements, in particular metals, present in the composition of exhausted photovoltaic panels when left in the environment".
Consultancy and studies for the development of innovative methodologies for the disposal, recovery and recycling of components of photovoltaic panels, with related environmental effects.
Collaborations with companies: COBAT National Consortium for Collection and Recycling, OMNIASOLAR ITALIA Srl.





Characteristics: CUSTOM
The assessment service of the environmental impact can be flexibly adapted to different needs and contexts

Italian National Agency for New Technologies, Energy and Sustainable Economic Development
www.enea.it

Department for Sustainability
Division Resource Efficiency - Division Protection and Enhancement of the Natural Capital
Laboratory Technologies for the Reuse, Recycling, Recovery and valorisation of Waste and Materials- Laboratory Environmental Biogeochemistry
Contacts: Marco Tammaro - marco.tammaro@enea.it
Antonio Salluzzo - antonio.salluzzo@enea.it