

# ORGANIC PHOTOVOLTAIC CELLS

**Innovations and Benefits** - Design, development, implementation and characterization of innovative layers, compatible with large area industrial processes, to be used in organic-based photovoltaic cell structures. Creation of low-cost devices with different types of architectures. Optical and electrical characterization of the devices and study of degradation under controlled conditions.

**Use** - Manufacture of organic-based photovoltaic cells. Development of flexible cells and modules. Integration of cells into electronic components.

**Applications and ongoing Activities** - Participation in national (PON RELIGHT, PON GREEN, Program Agreement ENEA-MISE) and international projects (CHEETAH, SOPHIA) for the improvement of device performances and the study of degradation in operating conditions.

