



Sustainable chemicals from sunlight and carbon dioxide





>€500 billion sales >1 million direct jobs Highly polluting industry

European Climate Targets



2030: ↓40% CO₂ emissions 2050: Climate neutral economy

Sustainable Development Goals







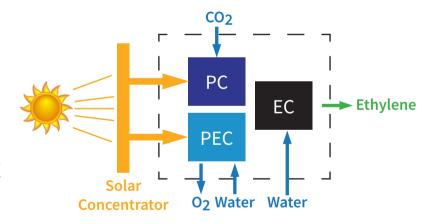
Reduced fossil fuel reliance Sustainable manufacturing EU-Africa cooperation

FlowPhotoChem is a multi-national, EU-funded research project developing new and more sustainable ways to manufacture chemicals.

The project addresses key challenges faced when using solar energy and advanced catalysts to convert carbon dioxide (CO₂) into valuable chemicals.

Three types of modular flow reactors will be developed: photo-electrochemical (PEC), photocatalytic (PC) and electrochemical (EC)).

They will be integrated in a demonstrator reactor to manufacture ethylene, a high value chemical, using solar energy and CO₂.







Fostering international cooperation































