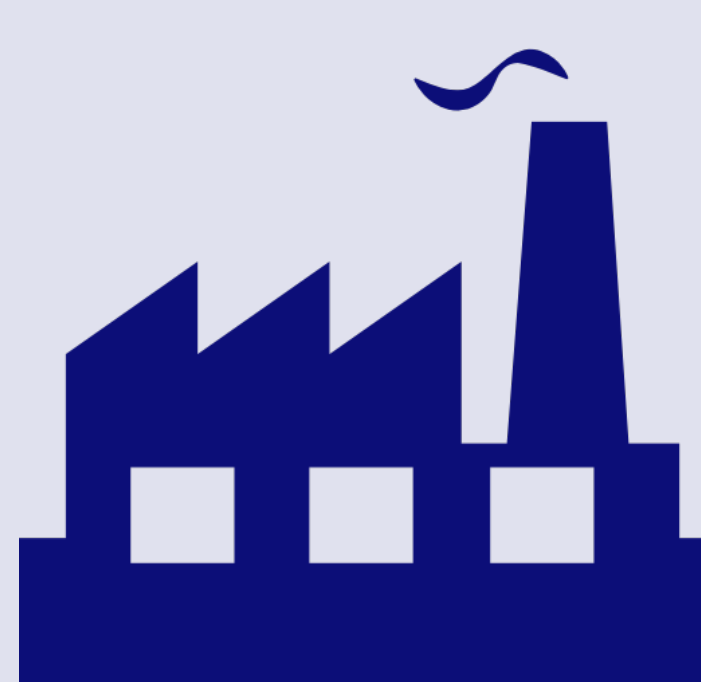




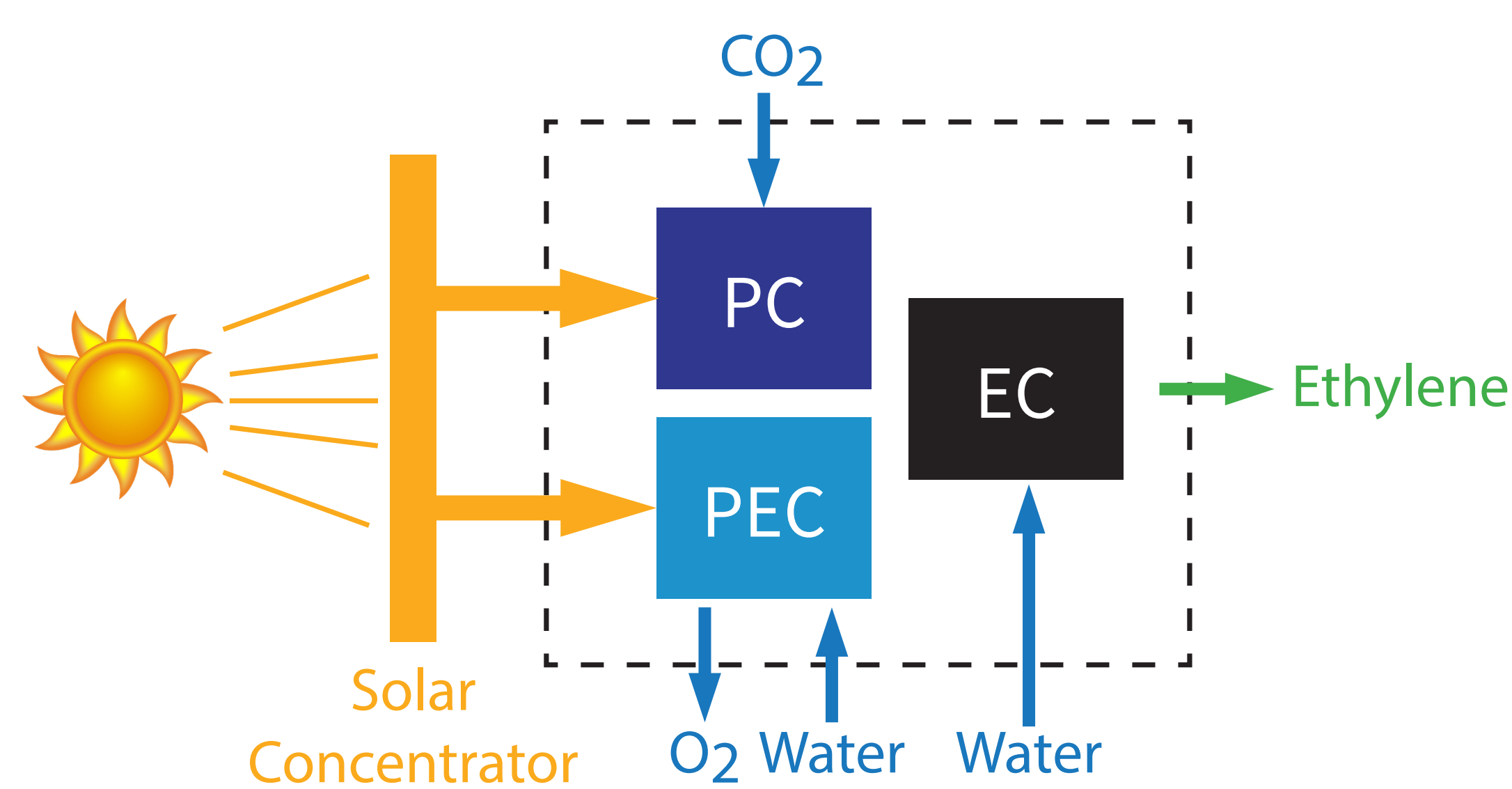
Sustainable chemicals from sunlight and carbon dioxide

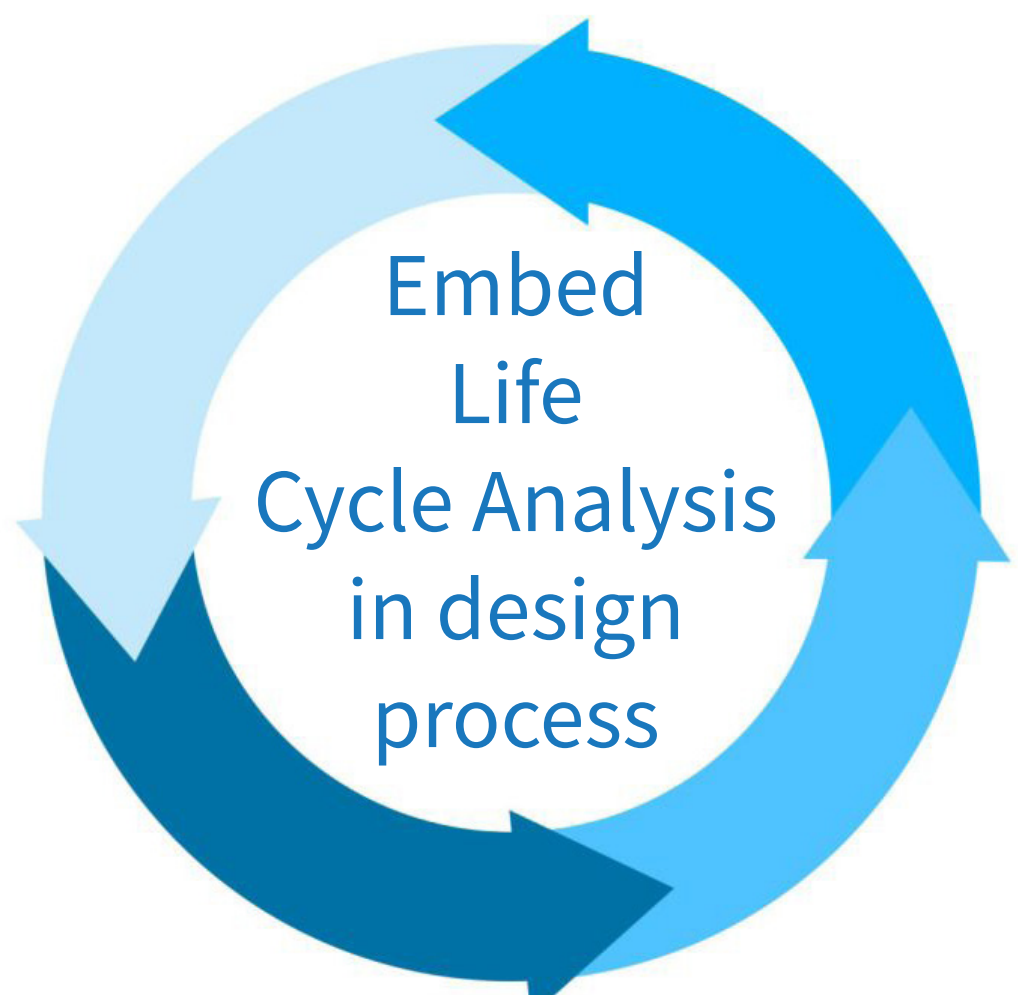
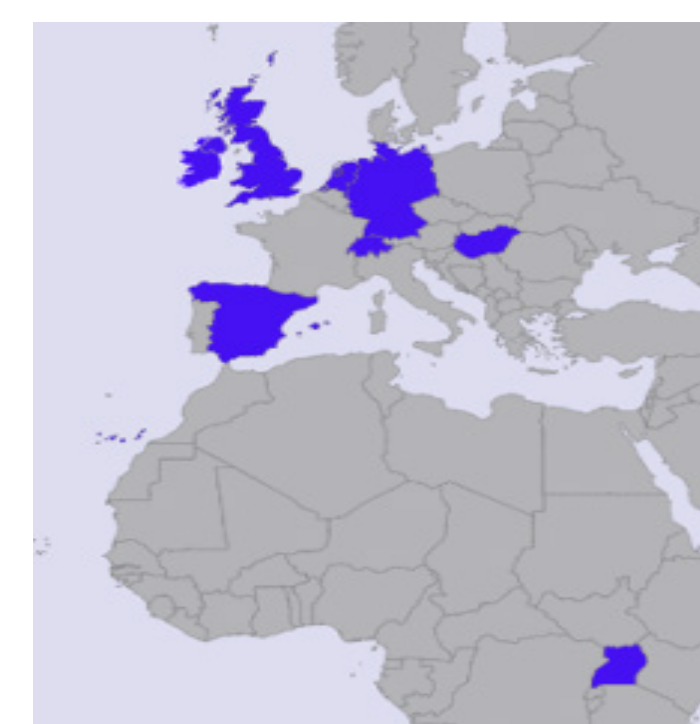
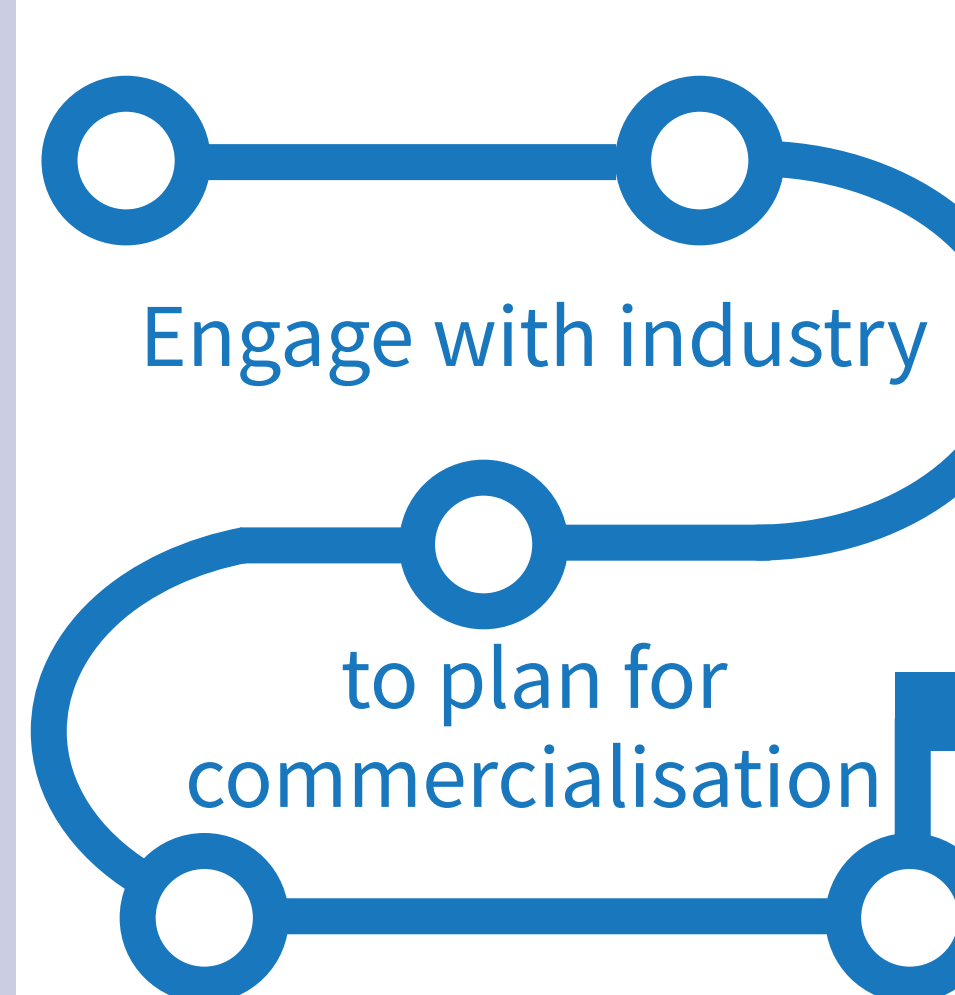
<p>European Chemicals Industry</p>  <p>>€500 billion sales >1 million direct jobs Highly polluting industry</p>	<p>European Climate Targets</p>  <p>2030: ↓40% CO₂ emissions 2050: Climate neutral economy</p>	<p>Sustainable Development Goals</p>  <p>Reduced fossil fuel reliance Sustainable manufacturing EU-Africa cooperation</p>
---	--	---

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.

FlowPhotoChem will:

- Develop three types of modular flow reactors (photo-electrochemical (PEC), photo-catalytic (PC) and electrochemical (EC)),
- Use advanced computer modelling to find more affordable and durable catalysts and optimise reactor performance,
- Develop an integrated demonstrator reactor from the modular flow reactors to manufacture ethylene, a high value chemical, using solar energy and CO₂.



 <p>Embed Life Cycle Analysis in design process</p>	<p>Foster international cooperation</p> 	 <p>Engage with industry to plan for commercialisation</p>
--	--	---



www.flowphotochem.eu

[@flowphotochem](https://twitter.com/flowphotochem)



This project has received funding from the European Union's Horizon 2020 research and innovation programme under grant agreement No 862453. The material presented and views expressed here are the responsibilities of the author(s) only. The EU Commission takes no responsibility for any use made of the information set out.