



DECARBONIZING
THE FUTURE OF THE
HEAVY INDUSTRY



Solar-driven artificial
photosynthesis, utilizing local
resources to produce green
energy (hydrogen & methanol)
from wastewater and CO₂ to
make chemical industry more
auto-sufficient.

OBJETIVES

Maximize Renewable
Energy:

Integrate solar energy as the primary
source for converting wastewater
and CO₂ into green fuels.

Produce Sustainable
Fuels:

Generate green hydrogen and
bio-methanol to meet energy
demands in the chemical sector.

Innovate Production
Methods:

Develop novel photoelectrochemical
processes for efficient liquid and gas
energy carriers.

Pilot Testing for
Scale-Up:

Implement a pilot to test and scale
technologies for industrial
applications.

PARTNERS



Funded by
the European Union

Funded by the European Union. Views and opinions expressed are however those of the author(s) only and do not necessarily reflect those of the European Union or CINEA. Neither the European Union nor the granting authority can be held responsible for them.