

SOLAR ENERGY FOR CARBON-FREE LIQUID FUEL

The project will contribute to the European Commission's targets for clean energy for all and circular economy by developing a system for the conversion of solar energy into a carbon-free, non-toxic, energy-dense, liquid fuel - HydroSil - that will be used in the energy and transport sectors.



42 MONTHS



9 PARTNERS



6 COUNTRIES



43 DELIVERABLES

How will we do it?



Use solar energy to produce hydrogen as chemical intermediate through a photoelectrochemical device.



Convert hydrogen to HydroSil through a thermochemical reaction using concentrated sunlight.



Waste plastic valorisation by conversion to hydrocarbons using HydroSil.

Expected Impacts

- Mitigate climate change
- Enhance energy security
- Opportunities for economic development
- Build a sustainable energy system
- Achieve Mission Innovation aims



Follow Sun-To-X

www.sun-to-x.eu



[sun-to-x](https://www.linkedin.com/company/sun-to-x)



[@SunToX_H2020](https://twitter.com/SunToX_H2020)



contact@sun-to-x.eu



DIFFER



EPFL



HYSILABS
HYDROGEN CARRIER

HZB Helmholtz
Zentrum Berlin

LGi

sustainable innovation



TOYOTA



The Sun-To-X project has received funding from the European Union's Horizon 2020 research and innovation programme under grant agreement No 883264.