GREENET

CLIMATE ENERGY MOBILITY

W4RES

WOMEN FOR MARKET UPTAKE OF RENEWABLE HEATING AND COOLING

W4RES – GREENET Brokerage Event
26th September 202

enterprise europe network

Business Support on Your Doorstep

www.w4res.eu welcome@w4res.eu

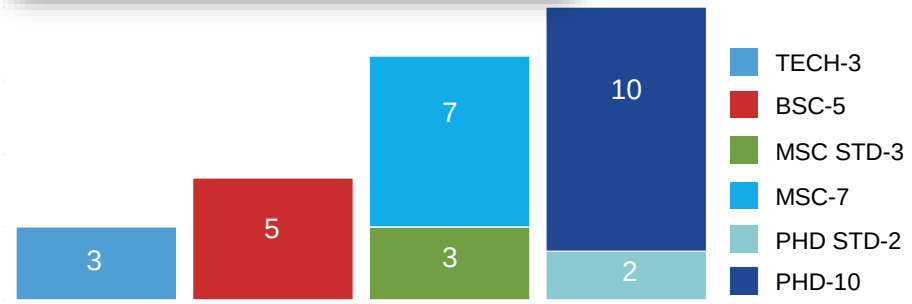
This project has received funding from the European Union's Horizon 2020 research and innovation programme under grant agreement No 952874

SOCAR Turkey R&D and Innovation Inc.

R&D Centre established on 1200 m² area including Laboratories

Pilot Plant Offices Laboratories

- Rheology Laboratory
- Catalyst Laboratory
- Polymer Characterization Laboratory
- Environment&Biotechnology Laboratory
- Chemical Analysis Laboratory
- Chromatography Laboratory



W4RES WOMEN FOR MARKET UPTAKE OF RENEWABLE HEATING AND COOLING

EU PROJECTS

CARMOF (H2020)
TAILORMADE 3D PRINTED STRUCTURES BASED ON CNT AND MOF MATERIALS FOR EFFICIENT CO2 CAPTURE

CO2FOKUS (H2020)
CO2 UTILISATION FOCUSED ON MARKET RELEVANT DIMETHYL ETHER PRODUCTION, VIA 3D PRINTED REACTOR- AND SOLID OXIDE CELL BASED TECHNOLOGIES

NEFERTITI (H2020)
INNOVATIVE PHOTOCATALYSTS INTEGRATED IN FLOW PHOTOREACTOR SYSTEMS FOR DIRECT CO2 AND H2O CONVERSION INTO SOLAR FUELS

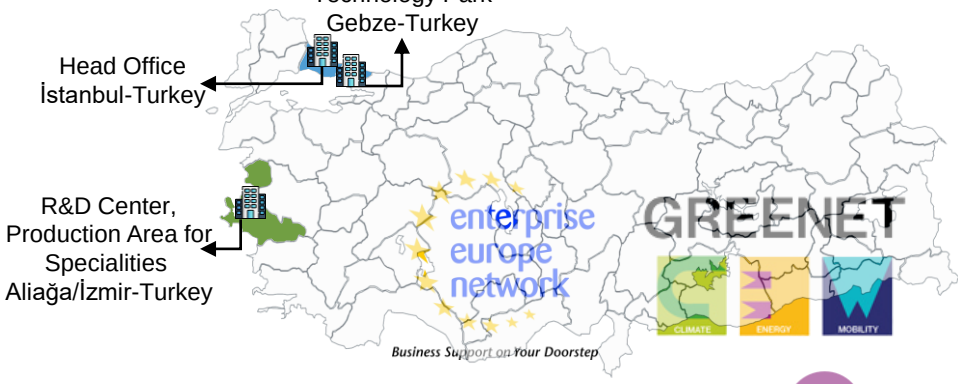
LOUISE (H2020)
LOW-COST CO2 CAPTURE BY CHEMICAL LOOPING COMBUSTION OF WASTE-DERIVED FUELS

Circular TwAIN (HEUROPE)
AI PLATFORM FOR INTEGRATED SUSTAINABLE AND CIRCULAR MANUFACTURING

Process System Center
Gebze Technical University
Technology Park
Gebze-Turkey

Head Office
İstanbul-Turkey

R&D Center,
Production Area for
Specialities
Aliağa/İzmir-Turkey



RenXalg

HORIZON-CL5-2022-D3-03-07: Development of algal and renewable fuels of non-biological origin

- RenXalg
- Novel heterogeneous structured catalyst and unique process development for the synthesis of high-quality biofuels (renewable diesel, SAF etc.) from algal and vegetable lipids
- SOCAR R&D might design, synthesize, characterize and test metal oxide catalysts for the synthesis of biofuels from algal and vegetable lipids
- SOCAR R&D might develop conceptual design of proposed process
- Academy-Industry Collaboration: SOCAR R&D and Innovation Co. and IZTECH
- Partners sought for; Algae producer, Scale-up, Engineering, catalyst manufacturer and LCA

PHOTONG

HORIZON-CL5-2022-D3-03-03: Efficient and circular artificial photosynthesis

- PHOTONG (PHOTOcatalytic Natural Gas)
- Development of efficient MOF based photocatalyst for the production of sustainable natural gas (CH4) from captured CO2 via artificial photosynthesis
- SOCAR R&D might take role in;
  - the design and development of photocatalysts.
  - The investigation of the reaction conditions and requirements to design the appropriate catalysts
  - the detailed characterizations of the catalysts with the aim of determination of textural, chemical and morphological specifics of the catalysts.
  - the pilot tests of the developed catalysts to obtain kinetic data and catalytic activity results together with the parametric test for the determination of optimum operation conditions
  - the exploitation and dissemination tasks of the project with the help of the industrial data
- SOCAR R&D and IZTECH
- Partners sought for; Scale-up, Engineering, Catalyst Manufacturer and LCA