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Research Experience: 17 years

Patents: 04

Research Focus:

- Energy transition.
- Carbon management in industry.

Technology Licensed: NA

Interested Industry member kindly connect through:

Email Id: icc-industryacademia@iccmil.in

Technologies (Proof of concept): TRL 5

- Biogas reforming to hydrogen.
- Liquid-phase reforming of biofeeds to hydrogen.
- CO₂ sorption-enhanced reaction processes.
- Integrated CO₂ capture and utilization.
- CO₂ capture by reactive absorption in new solvents.
- Hydrotreatment of vegetable oils/waste cooking oil.
- Oxidation/hydrogenation of platform compounds from biomass.
- Distillery wastewater treatment by advanced oxidation processes.

Technologies under development:

- Pyrolysis/Gasification of biomass.
- Bio-LPG production from wastewaters.

Targeted industries:

- Petroleum refining and petrochemicals.
- Fertilizer sector, Cement.
- Biorefinery.

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