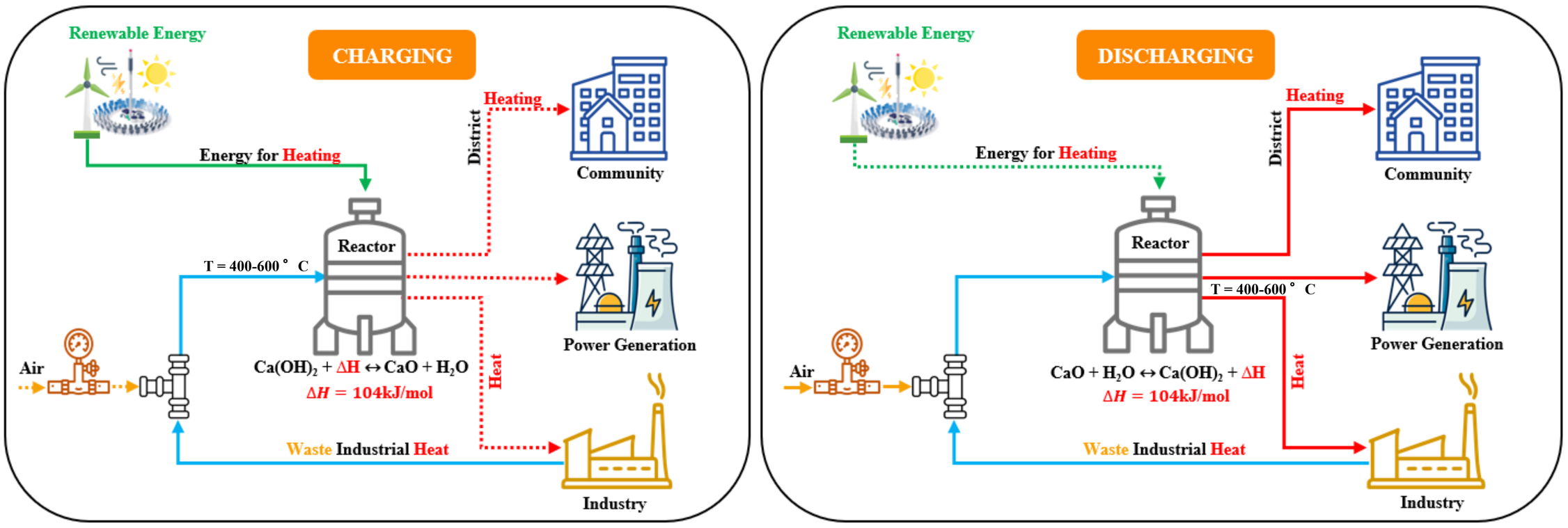
Long-Duration, High-Temperature Thermochemical Heat Storage and Upgrading for Power Cycles

GOAL

Funded by EU Horizon, STOREDGE, this project develops a thermochemical heat storage system using metal hydroxides, targeting TRL 4. It aims for efficient long-duration heat storage, with a demonstration of 5kW lab reactor, contributing to the EU 2050 sustainability goals.

SYSTEM

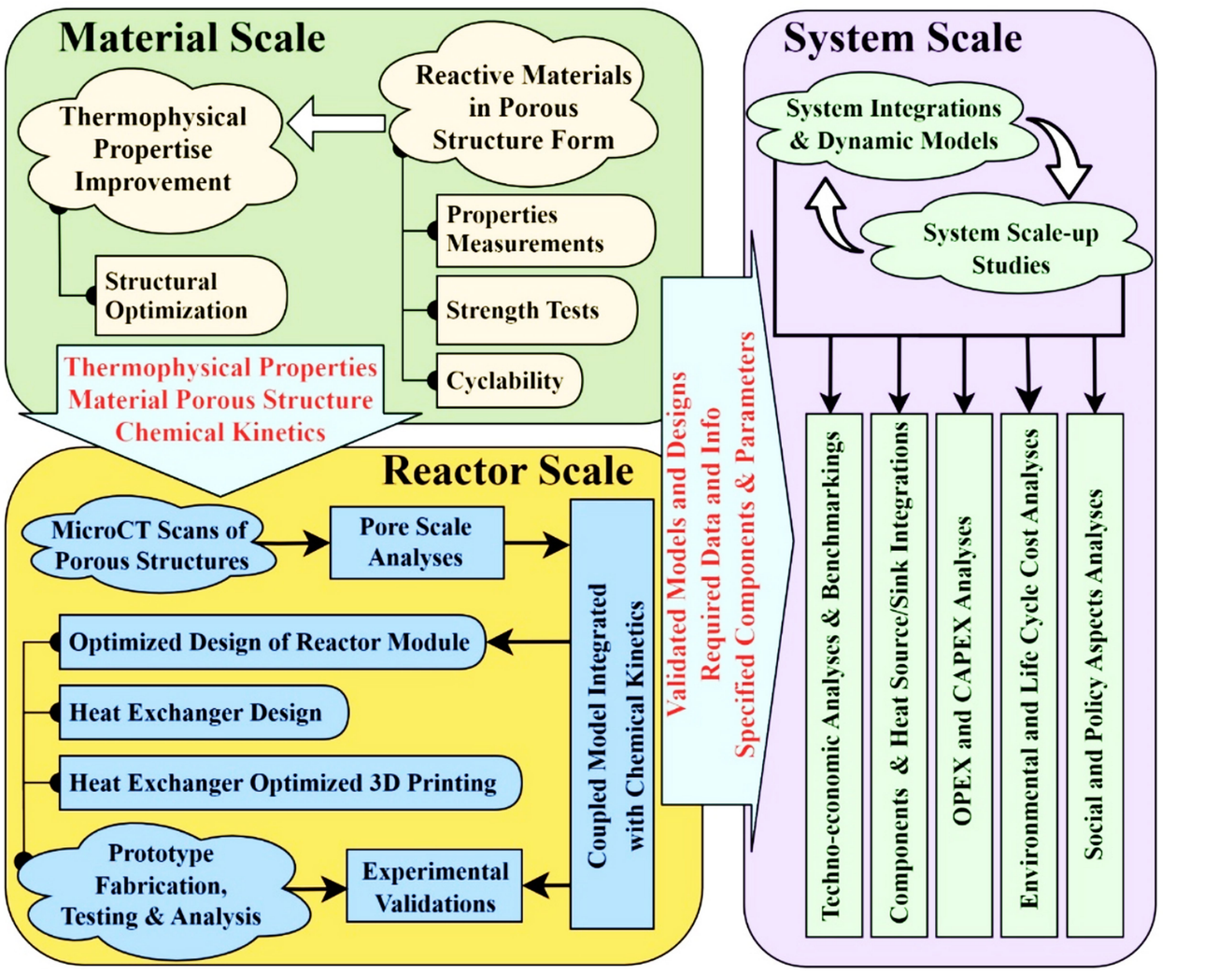


METHODOLOGY

Builds reactor models, tests performance.

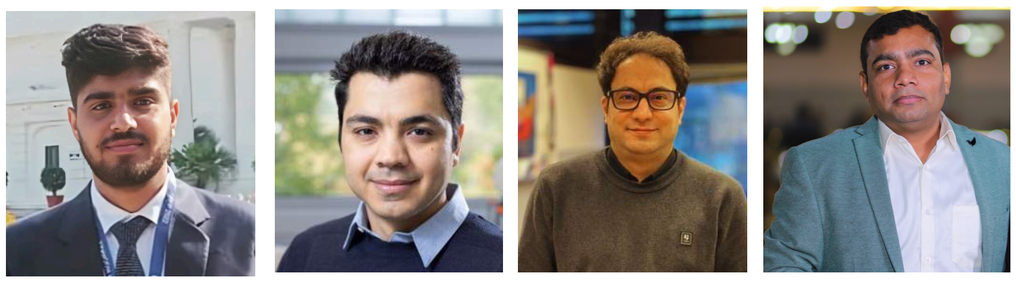
Optimizes materials with additive manufacturing

Supports LCA, economic, and policy analysis.



TEAM

From left to right:
Khushwant Singh Chauhan
Mohammad Mehrali
Davoud Jafari
Abhishek Kumar Singh
UNIVERSITY OF TWENTE



Funded by the European Union's Horizon Europe research and innovation programme under grant agreement No. 20004016. Views and opinions expressed are however those of the author(s) only and do not necessarily reflect those of the institutions of the European Union. Neither the European Union nor the granting authority can be held responsible for them.

4TU.