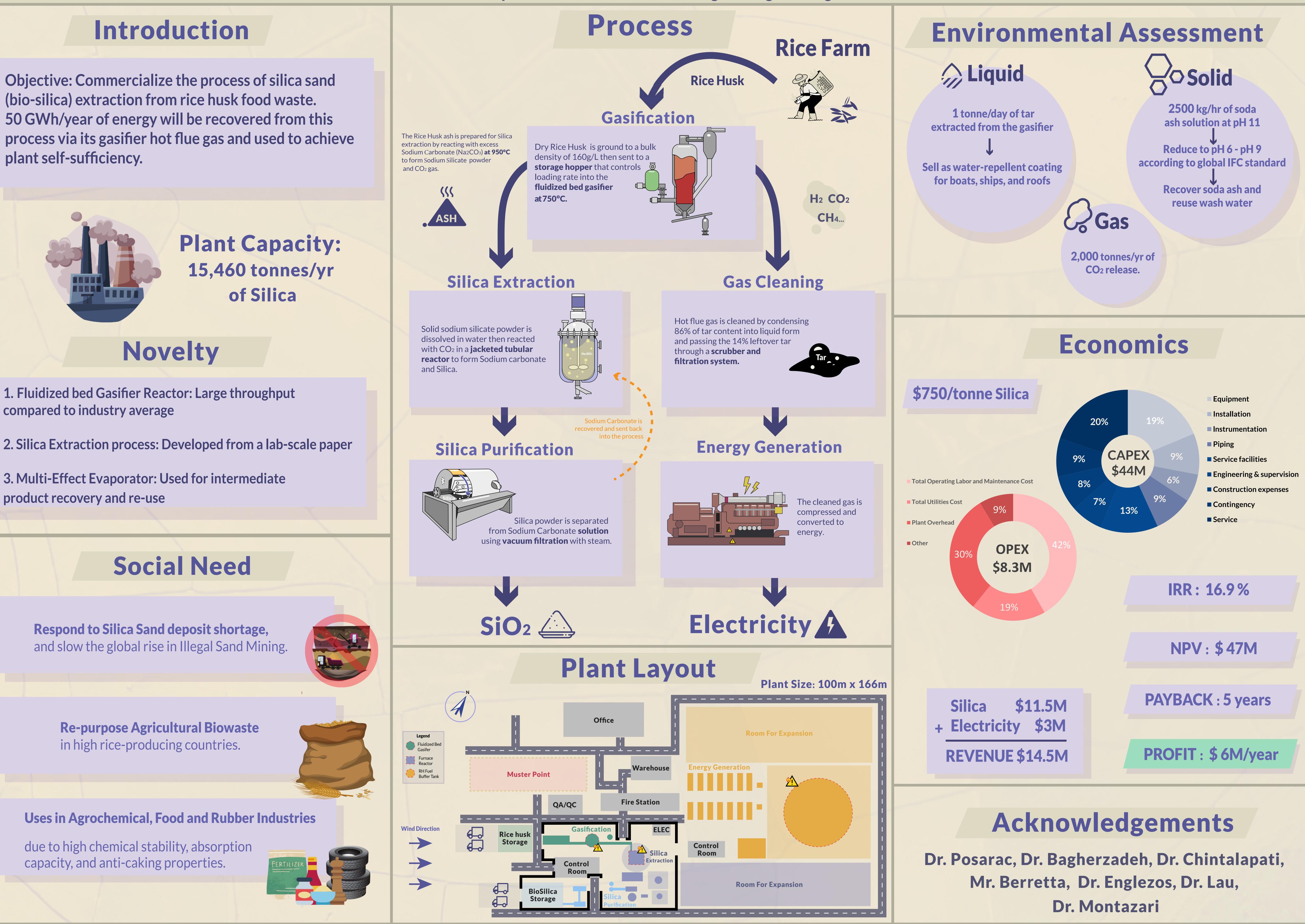


Objective: Commercialize the process of silica sand (bio-silica) extraction from rice husk food waste. 50 GWh/year of energy will be recovered from this plant self-sufficiency.



- **1. Fluidized bed Gasifier Reactor: Large throughput** compared to industry average
- **3. Multi-Effect Evaporator: Used for intermediate** product recovery and re-use

Uses in Agrochemical, Food and Rubber Industries

due to high chemical stability, absorption capacity, and anti-caking properties.

Bio-Silica Production and Energy Recovery from Rice Husk Waste Group P2 - Aidan Kiel, Adib Zakwan Zakaria, Bashirah Salami, Clive Indrawan, Fortune Komolafe, Joya Yamagishi, Sam Oladoyinbo **Department of Chemical & Biological Engineering**