

Advanced Liquid Biofuel from Biomass using RCAT-HTL

3RD EU-INDIA
CONFERENCE ON
ADVANCED
BIOFUELS

NEW DELHI
02-04 MARCH 2020

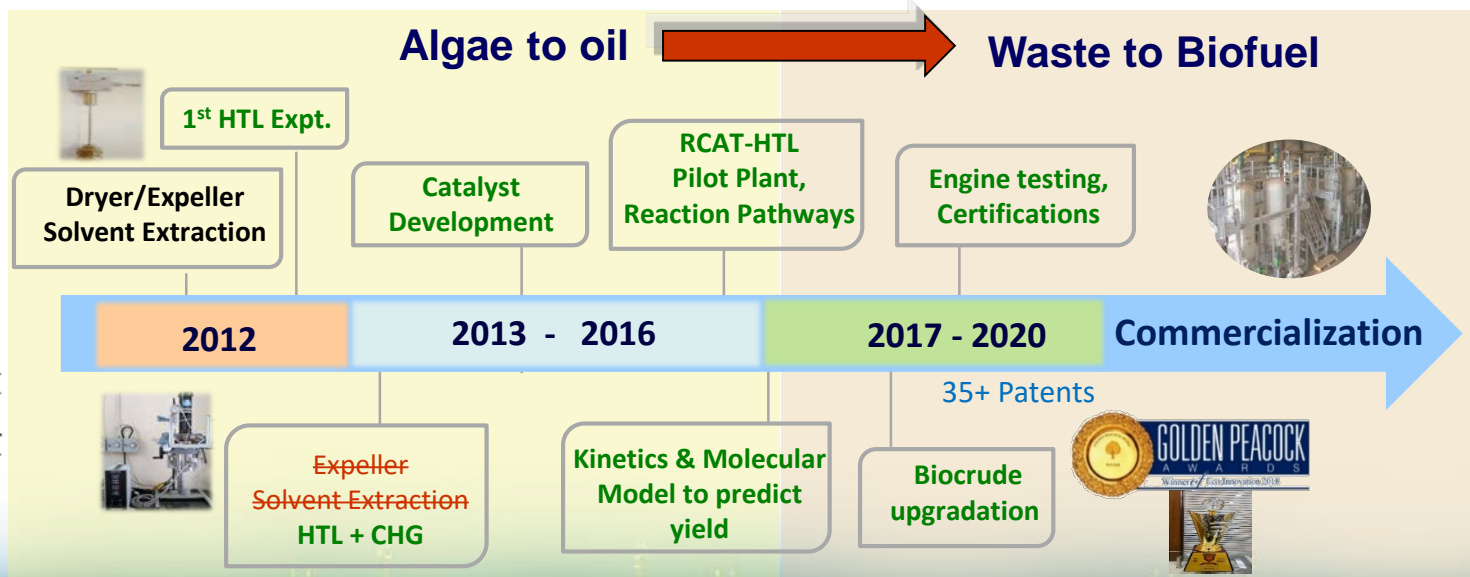
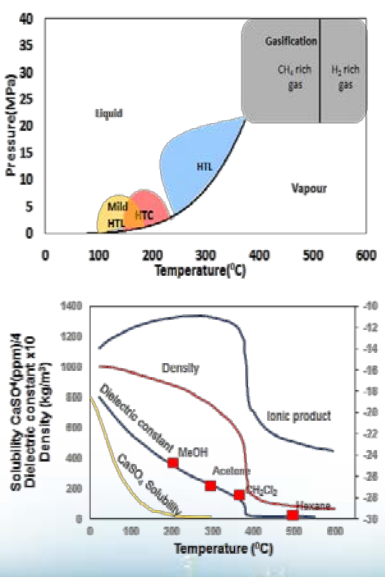
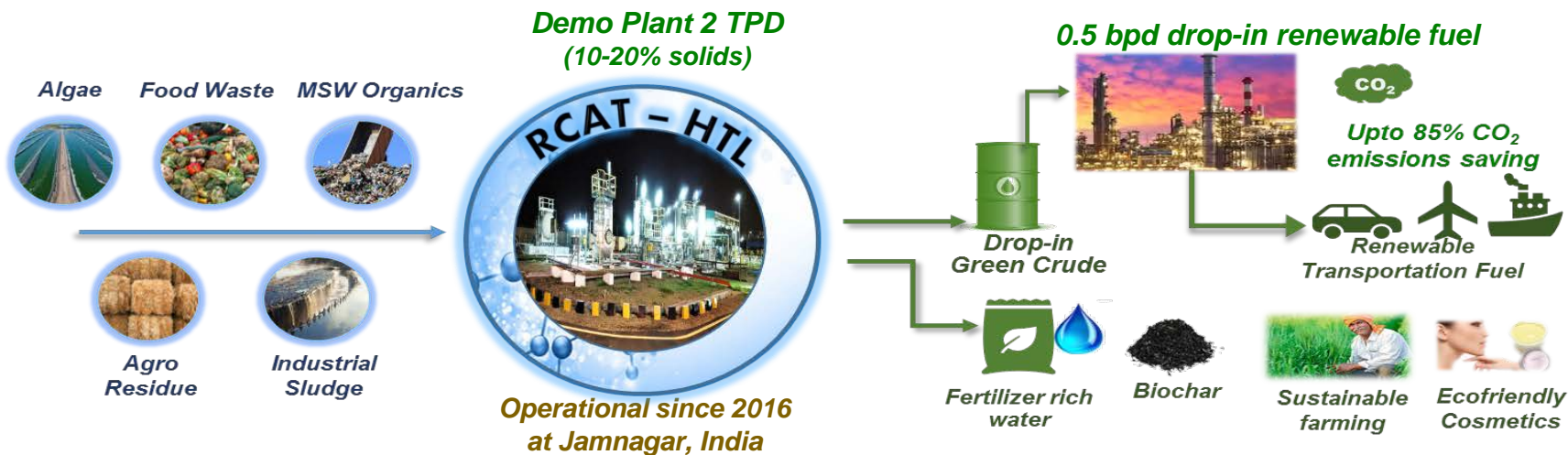


Ramesh Bhujade
R&D, RIL

Mar 2, 2020



RCAT-HTL: Feed flexible & Resource Efficient

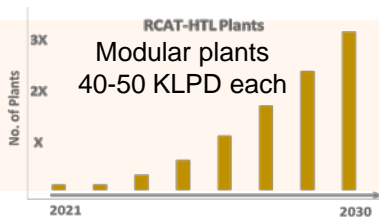


Water as Solvent \ No need of drying wet waste | Energy recovery > 80% | Drop-in liquid fuel



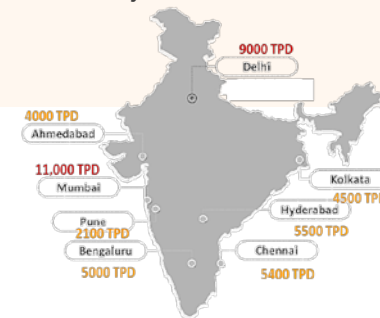
RCAT-HTL Commercialization Road map

Growth Potential

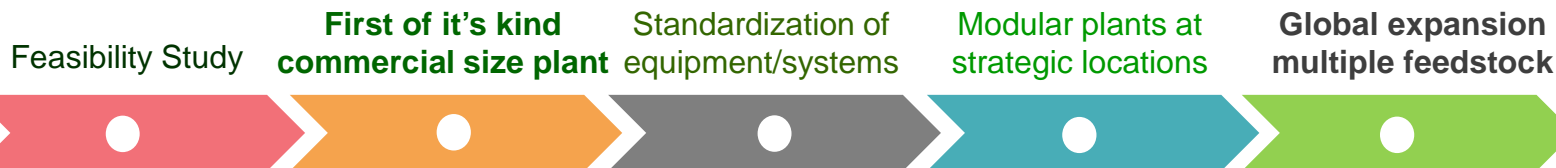


IRR 15-20% (*nth plant*)
Advanced liquid Biofuel 1350+ KLPD
GHG Savings Potential > 1 MM Ton

MSW generation in major Indian cities



Feedstock - STP Sludge, MSW Organics, Food waste, Industrial ETP sludge, Lignin
Products: Transportation fuel, Bio-char and Fertilizer-rich water



Tipping fee & Raw material agreements with municipal bodies

Policy Intervention For Biocrude Pricing

Product offtake agreements with Refineries

Partnerships
Waste management, Technology integration, Byproduct treatment

MARKET POTENTIAL



WORLD 4-5 billion bbl

1.4 – 1.8 billion bbl
60%-80% of World's ATF demand

INDIA 300-400 million bbl

100 – 140 million bbl
More than India's ATF demand

Economically superior technology for valorization of waste to biofuel/biochemicals