"Praj's Bio refinery solutions driving Bio Mobility"





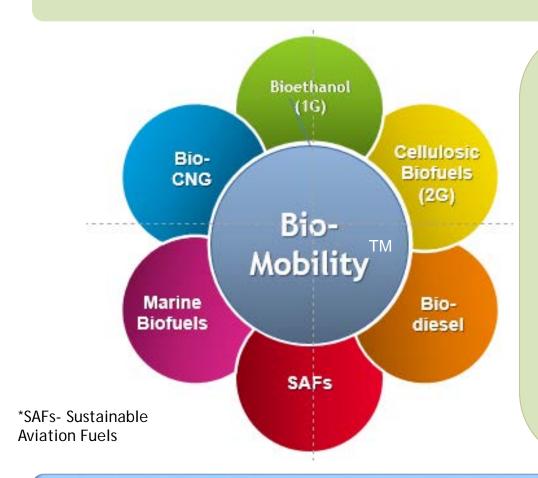
Mallikarjun Navalgund
President, ABFC, Praj Industries Ltd



Bio-MobilityTM



Bio-Mobility[™] denotes carbon neutral renewable fuel produced from biological resources



- Demand for transportation fuels is ever rising
- Transportation sector the major contributor to rising GHG emission
- Stubble burning causing brown clouding
- Both, major cause for environmental pollution and health hazards
- Bio-MobilityTM based transportation helps minimize carbon footprint

Bio-MobilityTM facilitates decarbonization through circular bio-economy



Demo and Commercial Projects for driving Bio Mobility

	Projects 2G Ethanol	Capacity & Feedstock	Status
	Praj , Pune	Demonstration Plant 3 KLPD	Commissioned in 2016 and operated more than 100 days on different biomass
	IOCL, Haryana (License + Proprietary + EPCM)	100 KLPD, Rice straw	Construction started, expected commissioning in June 2021
11	BPCL, Orissa (License + Proprietary)	100 KLPD, Rice straw	All contracts finalized ,expected commissioning in June 2021
म	HPCL, UP (License + Proprietary)	100 KLPD, Rice straw and Bagasse	BEDP completed, execution model TBD
	MRPL, Karnataka (License + Proprietary)	60 KLPD, Corn residue and rice straw	BEDP completed, execution model TBD
	Project on CBG		
	IPL, UP (LEPC)	10 TPD CBG , Press-mud	BEDP completed, commissioning in Aug 2020

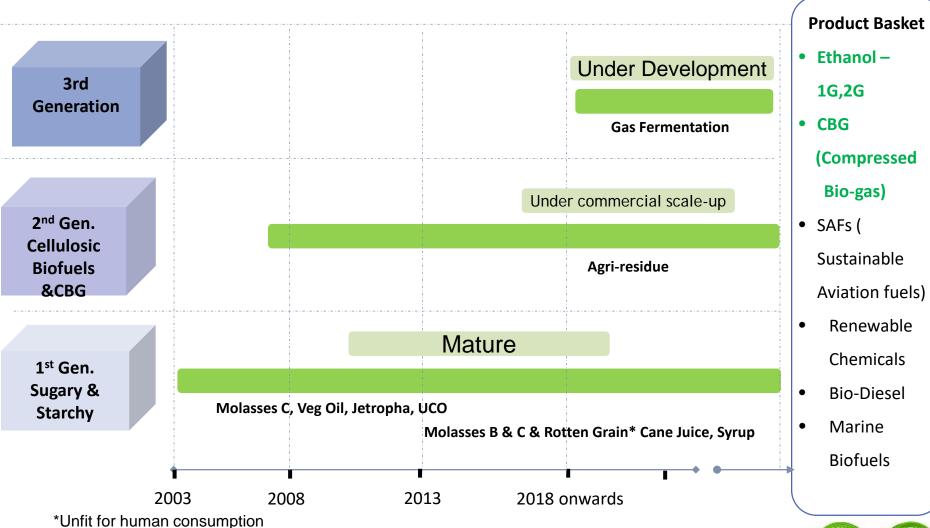


IndianOil

ongc

Technology Evolution





Transformation from hydrocarbon to carbohydrate led Bio-economy



Advanced Bio-MobilityTM Technologies





2nd Gen ethanol

Produced from agri-residues such as Bagasse, Corn Cobs, Rice Straw, Wheat Straw etc

Marine Biofuels

Produced from Lignin based feedstock





Sustainable Aviation Fuel (SAF)

Bio-based jet fuel produced from renewable sources e.g. sugars, starch and biomass

Bio-CNG

Produced from renewable feedstock such as Renders Bio-mass, Press mud etc





Bio Diesel

Efficient and cost effective Enzymatic technology





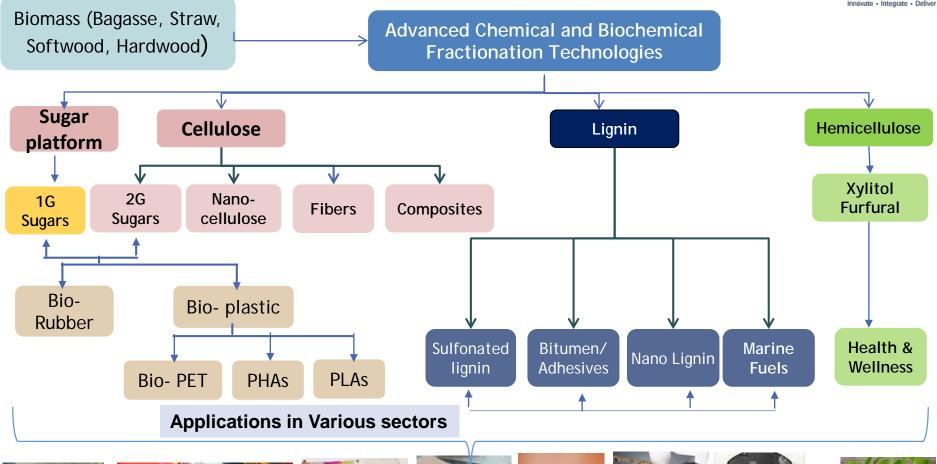


THANK YOU



Advanced Bio-chemicals: Smart Biorefinery



















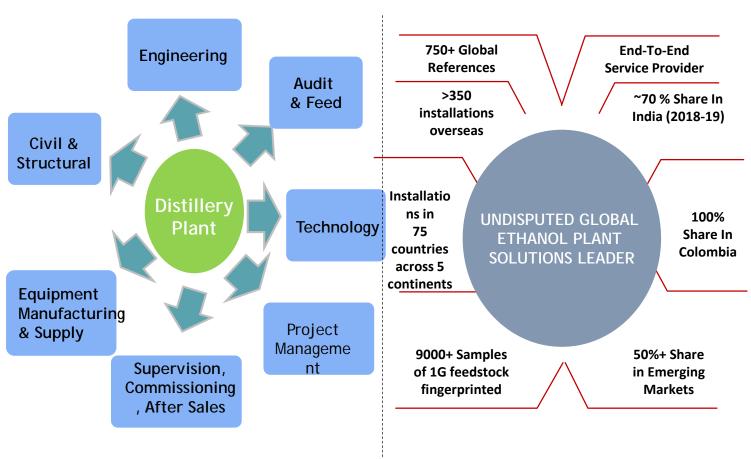


Textiles Fabrics

Polymers, Adhesives, Roads, cement applications, agriculture

Praj's Global Bioenergy Leadership











Only Ethanol Technology player with references across 5 continents Demonstrated Large Plant Capacity up to 1.2 MLPD (1200 KLPD)

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इंडियनऑयल IndianOil	IOCL, Haryana (License + Proprietary + EPCM)	100 KLPD, Rice straw	Construction started, expected commissioning in June 2021
Bharat Petroleum	BPCL, Orissa (License + Proprietary)	100 KLPD, Rice straw	All contracts finalized ,expected commissioning in June 2021
हिन्दुस्तान पेट्रोलियम	HPCL, UP (License + Proprietary)	100 KLPD, Rice straw and Bagasse	BEDP completed, execution model TBD
ONGC ज्ञारपीयल MRPL	MRPL, Karnataka (License + Proprietary)	60 KLPD, Corn residue and rice straw	BEDP completed, execution model TBD
	Project on CBG		
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