

DATE: 29th November, 2023 REF. : PIL/DVN/L-124/2023-24

Security Code No.: 522205	Company Code- PRAJIND
BSE LIMITED PHIROZE JEEJEEBHOY TOWERS, 25TH FLOOR, DALAL STREET, MUMBAI - 400 001 Fax: 022- 2723121/3719/2037/2039/2041/2061	NATIONAL STOCK EXCHANGE OF INDIA LTD. EXCHANGE PLAZA, 5TH FLOOR, PLOT NO. C/1, G BLOCK, BANDRA-KURLA COMPLEX, BANDRA (EAST), MUMBAI - 400 051 Fax: 022 – 66418124/25/26, 2659 8237 / 38.

Dear Sir / Madam,

Kindly put the enclosed "Investor Meet Presentation" on your bulletin board for sharing with Investors.

Thanking you,

Yours faithfully,

For PRAJ INDUSTRIES LIMITED

DATTATRAYA VISHWANATH NIMBOLKAR

Digitally signed by DATTATRAYA VISHWANATH NIMBULAR Disc - VIS, - OFFENDED, LOSIACIO-EN 1018, F-Pune, et-Adharadhra, street-FLA TANOA.101, MIGHIDOOT CO-OF EMBLOR PERTIVI HILL, SIGN-977, 25.4.2020-2010;CS321000;FCR0118221868;AB8172a1c54 7);CS2017408;SS204c5408, 307533/HILL, SIGN-977, 25.4.2020-2010;CS204c5408, 307533/HILL, SIGN-977, 25.4.202010;SS204c5408, 307533/HILL, SIGN-977, 2010;SS204-2010;SS204c5408, VISHWANATH NIMBUCKAR Disc 2020;TL3 27:10840-05397
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DATTATRAYA NIMBOLKAR CHIEF INTERNAL AUDITOR & COMPANY SECRETARY (M. No. 4660)



19-9-11-9-10

R. S. H. S. M.

BUILDING A SUSTAINABLE FUTURE

29th Nov 2023

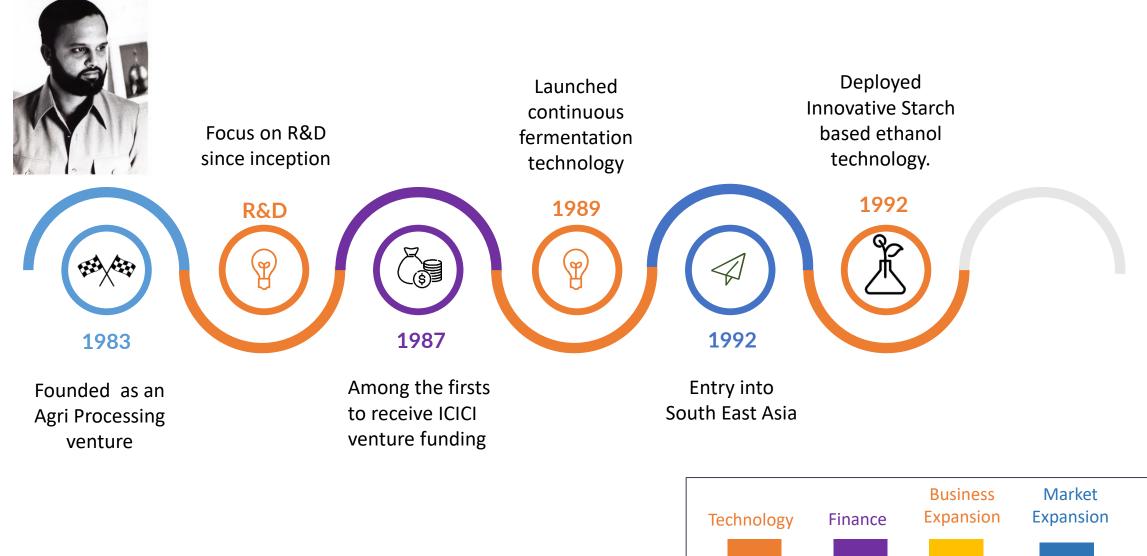




Celebrating completion of 40 Years

YEARS AND BEYOND



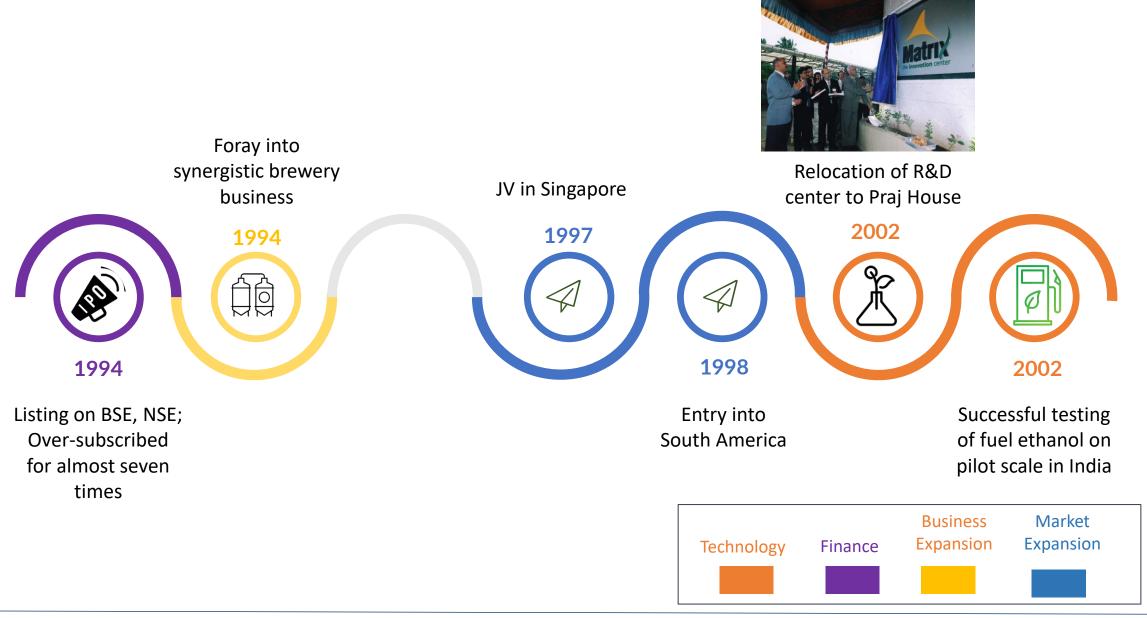




SUSTAINABLE

YEARS AND BEYON



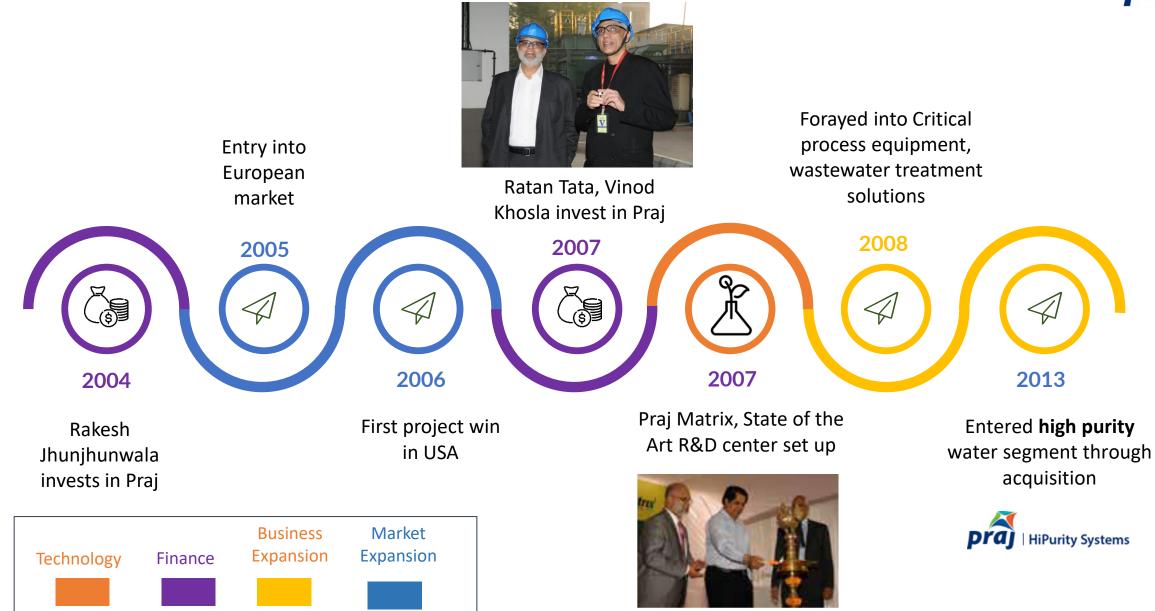


SUSTAINABLE

YEARS AND BEYON



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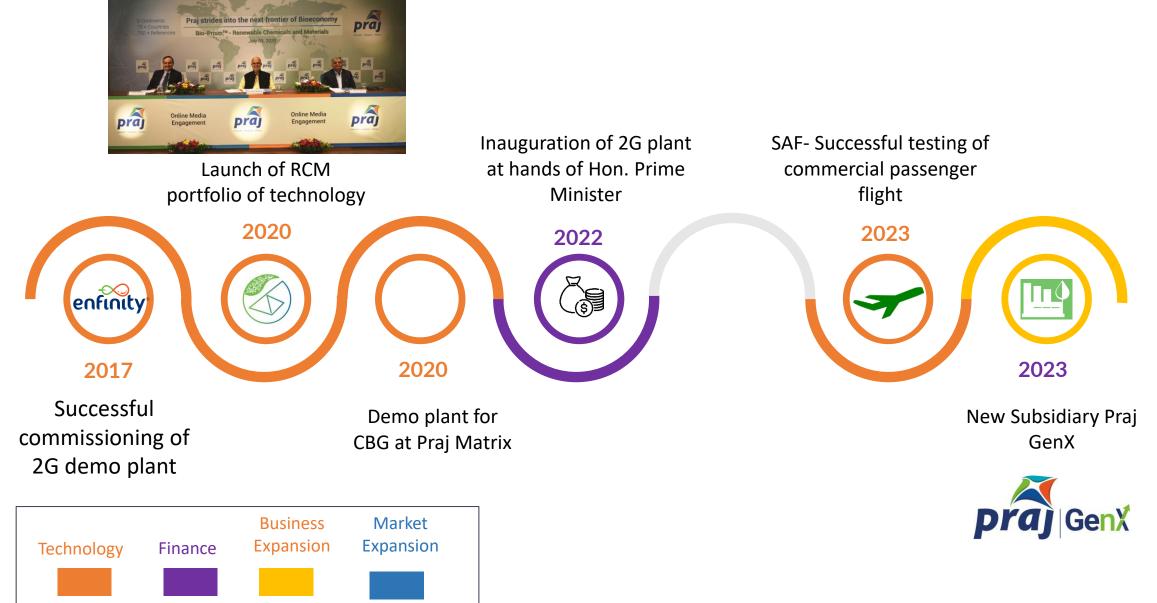


Our journey- Decade #4

SUSTAINABLE

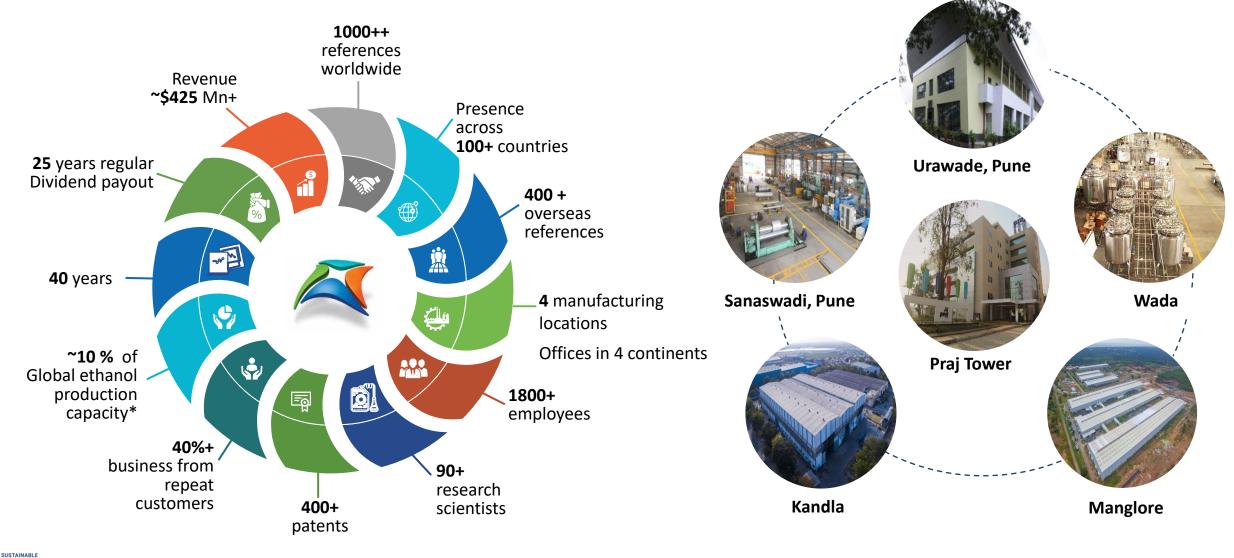
YEARS AND BEYON





Praj Today





*excluding China

YEARS AND BEYOND

As of Nov 2023

Awards and Accolades



8



Awards and Accolades

YEARS AND BEYO





Leadership in Bioeconomy



FY 16



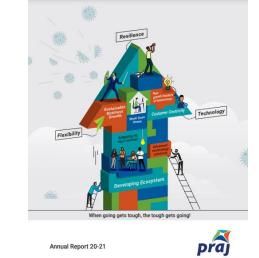
praj Annual Report 2016 - 17

FY 17



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CONNECT . COLLABORATE . COMMIT







6

FY 19

praj

FY 20

Annual Report 19-20

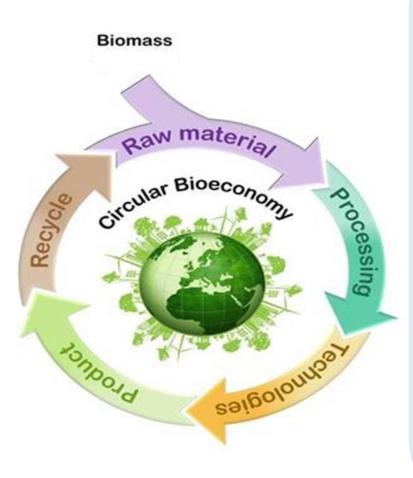
praj

FY 22

FY 23

Bioeconomy- A promising pathway for Sustainable Climate Action

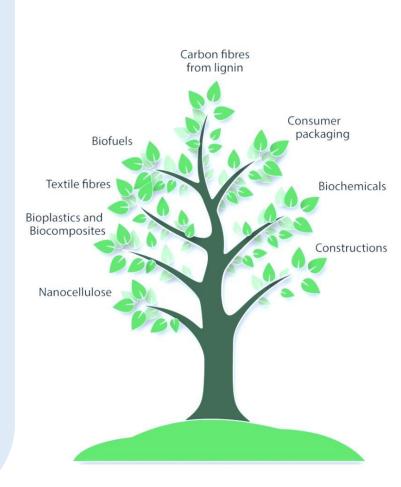




Bioeconomy is knowledge-based production and use of biological resources to provide products, processes services & energy in all economic sectors within the frame of a sustainable

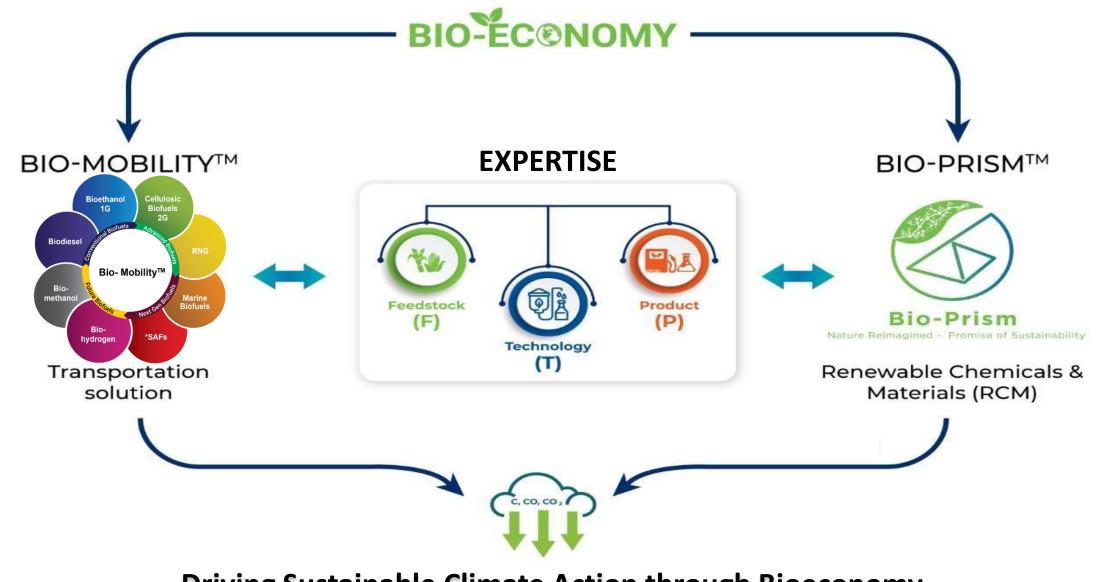
economic system.

- 1. Renewable source
- 2. Sustainable decarbonisation
- 3. Less Toxic
- 4. Environment friendly









SUSTAINABLE

Driving Sustainable Climate Action through Bioeconomy

FTP- Bedrock of Praj strategy



Feedstock (F)	Technology (T)	Product (P)
Sugary C-molasses, B-heavy molasses, Sugarcane syrup/Biosyrup Starchy Damaged/Surplus Grain like Rice, Wheat, maize (corn),Tuber, etc.	1 st Generation (1G)	Conventional Bioet hanol, RCM*
Lignocellulosic Agri bio-mass like bagasse, paddy straw, wheat straw, etc.	2 nd Generation (2G)	Advanced & NextGen Biofuels, RCM*
Industrial & Other Waste Industrial waste such Press mud, spent wash, Municipal waste	Anaerobic Digestion	Advanced Biofuels - CBG

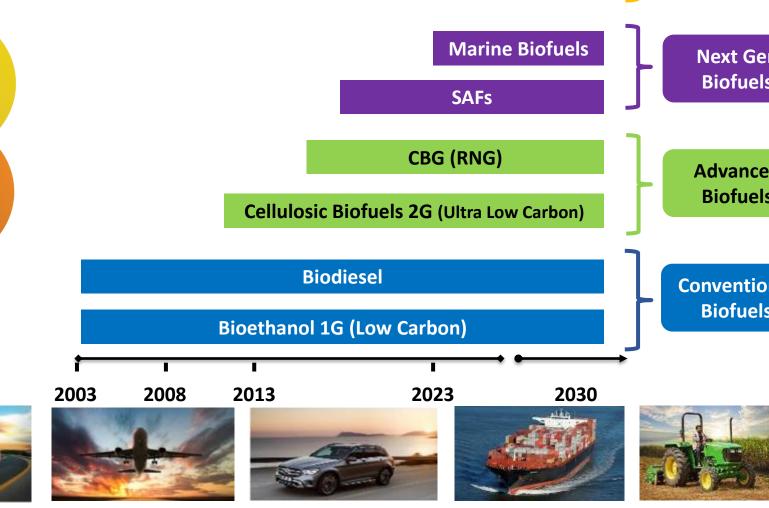


*RCM: Renewable Chemicals & Materials



Pľ **Bio-Hydrogen Future Biofuels Bio-Methanol** Next Gen **Biofuels Advanced Biofuels** Conventional **Biofuels**

Bioethanol Cellulosic 1**G Biofuels** 2G constitutional Biofuels Advanced Biodiesel Bio- Mobility $^{\mathbb{R}}$ Bio-Next Gen Biols Marine methanol **Biofuels** Bio-*SAFs hydrogen *SAFs- Sustainable Aviation Fuels SUSTAINABLE



Global Footprint





Cilion Inc. USA

Triveni Engineering, India

Manuelita, South America



Kakira Sugars, Africa



Biowanze, Europe



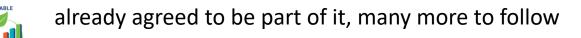
Progreen, South-East Asia



Global Biofuels Alliance



- Watershed moment for the biofuels industry
- Anchored by India, the United States, and Brazil.
- 19 Countries & 12 International organizations have



- Committed to facilitate access to technology, fostering an ecosystem and initiating policy interventions & alterations
- India has a huge role to play in technology transfer, policy

support, expertise in project life cycle management





Carbon footprint reduction



Water footprint reduction



reduction





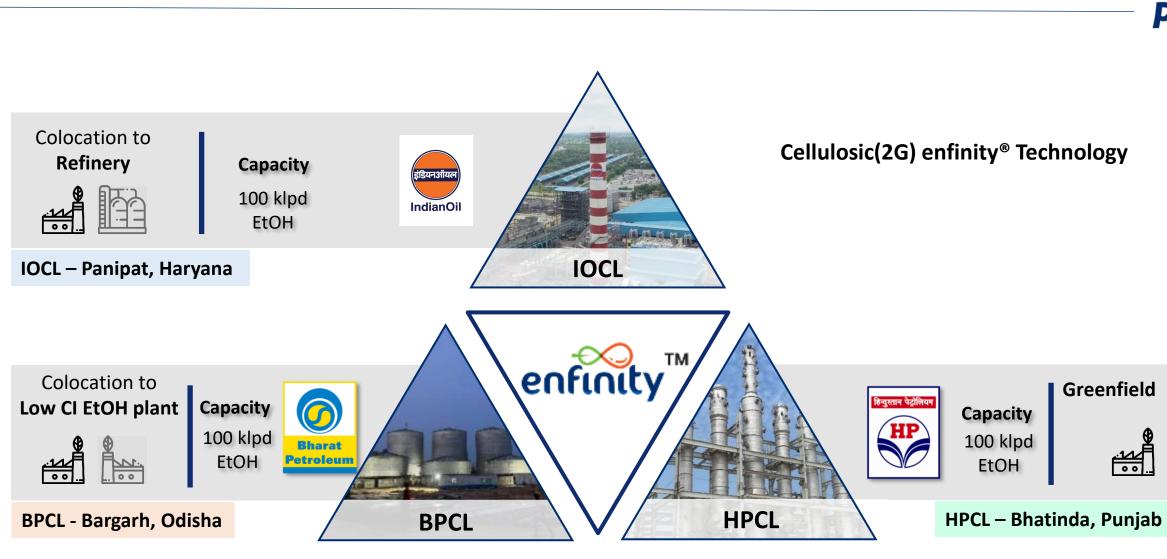


Lowering the carbon intensity for existing

corn ethanol through -

- Energy integration
- Process integration &
- Process optimization solutions











- No. of farmers to be benefited: ~100,000
- Rural Job Creation: ~1,500
- No. of cars to be displaced annually: ~63,000
- CO₂ Emission reduction/year: ~320,000 MT

- First ethanol is out of the plant
- Plant under recommissioning now
- Will be operational @60% capacity by March 2024



Agricultural Residues as feedstock Forest Residues as feedstock Cellentit Cellentit

- Enfinity: Praj's proprietary technology
- Praj & Sekab, Sweden have jointly developed Celluniti[™]
- Europe, as per RED III mandate to move to 2nd Generation ethanol



Dra

- Industry ecosystem gradually building up
- Bold plans announced by both Public sector companies as

well as large business conglomerates

- International Opportunity: RNG
- Unique solutions- rich understanding of biotechnology
- Strong references of commercial scale plants based on Press

Mud, Rice Straw and Industry effluent







- Plant Audit & Integration engineering
- Remote Bridge: Leveraging Digitalization for plant performance monitoring
- Operations and Maintenances of Plants
- Performance Enhancers for ethanol plants









India's First Commercial Passenger Flight, Powered By Indigenously Produced Sustainable Aviation Fuel (SAF) From Sugarcane Molasses Using ATJ Pathway.

> 19.05.2023 T3, Indira Gandhi International Airport, New Delhi Flight Details: AirAsia India 15 767 (Pune To New Delhi)

THE PIONEER

- CORSIA Agreement for use of SAF
- India has set target of blending SAF:
 - □ 1% by 2027 □ 2% by 2028

• Countries globally setting SAF mandates:

(USA - ~10% by 2030 & EU 6% by 2030)

• Global leaders as technology partners GEVO and Axens

Energy Transition & Climate Actions (ETCA)

- Energy giants investing in Blue and Green Hydrogen Green Ammonia, Waste-To-Energy projects
- Increasing demand for Modularization
- \$300+ Bn investment in clean energy by 2030
- Traditional O&G market: Investment of \$250 Bn per year for the next 7 to 10 years
- \$150+ Bn in LNG infrastructure to be around
- Strong capabilities in modularization
- New manufacturing facility at Manglore









- Comprehensive range of solutions for industrial effluent treatment, recycling and ZLD systems
- Strong references in metals, industrial waste, refinery sector
- Growing awareness of Water Management
- Specialized microbes for difficult to treat industrial effluent
- Solar based evaporation
- Modularization approach



- Strong leadership in domestic market
- Working with all three major global beer makers
- Market bouncing back after subdued performance in last three years

 Hygienic manufacturing and process expertise to expand its offerings for other beverages





High Purity

- Offerings across Pharma- Hi Purity Water, Modular Process solutions (MPS) and VAS
- Semiconductor capacity creation to drive demand for highpurity water solutions
- Growing demand for High-Capacity fermenters for biopharma
- Leverage the fermentation capability of parent

- Focused Internationalization
- Innovation across the product value chain









Customers References







1000 ++ references in 100+ countries across all 5 continents. And still counting...

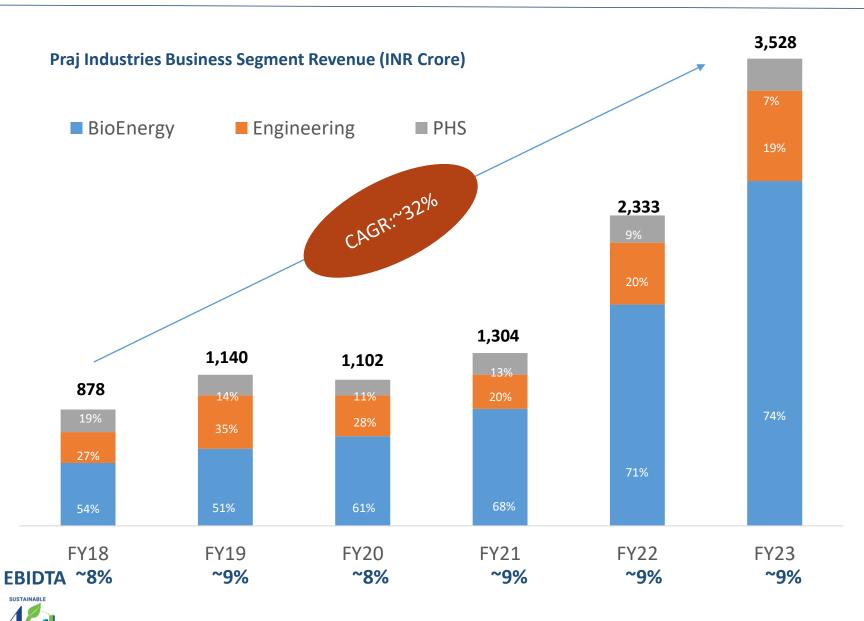
Financial Performance



Financial Highlights

YEARS AND BEYO



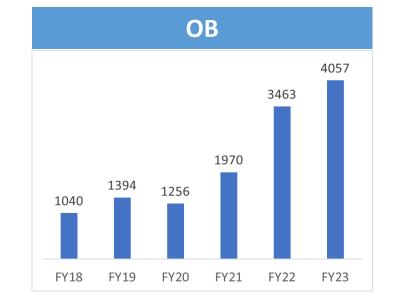


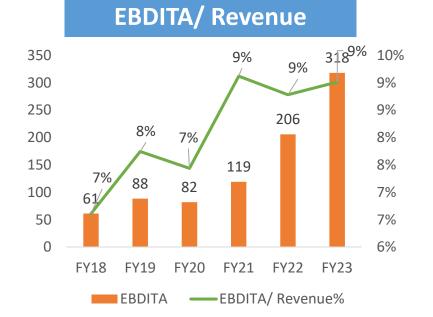
- Bioenergy demonstrated healthy growth (~40% CAGR) with increasing market share in India and overseas
- ETCA focused CPES has showcased promising growth (~40% CAGR)
- Export revenue growing at 15%
 CAGR
- 4. ROCE has grown from 8% to 30%

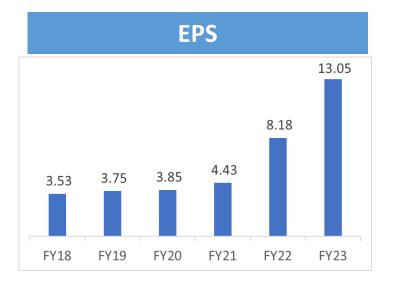
Financial Highlights

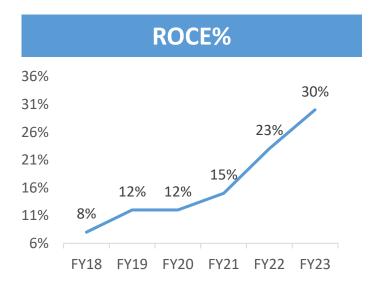


In INR crore









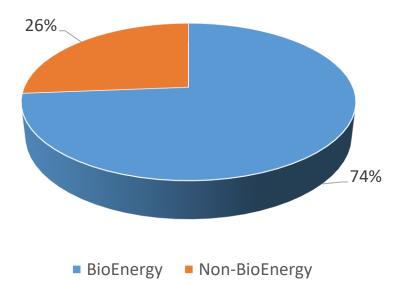
SUSTAINABLE

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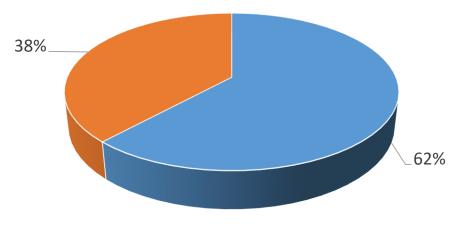


Growing share of Non-Bioenergy business segment

Revenue Mix FY23



Targeted Revenue Mix



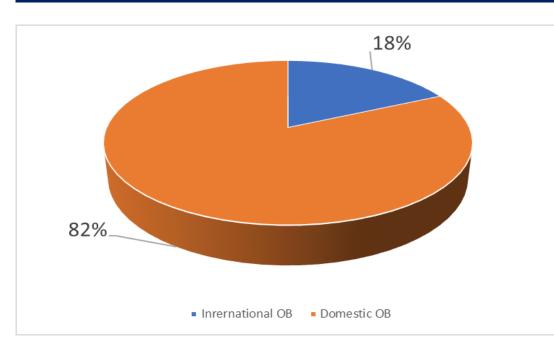
BioEnergy Non-BioEnergy



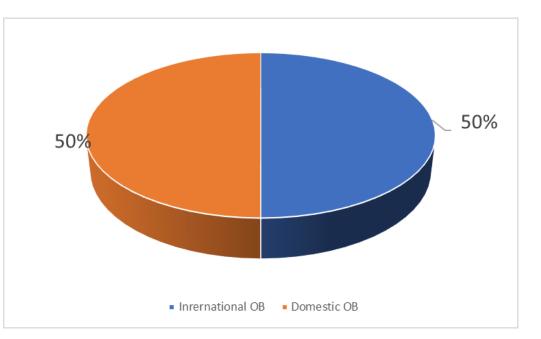


Growing share of International Business

Dom vs Inter. FY23



Targeted International Business





Corporate Social Responsibility





Environment

- GHG Emission reduction, Waste reduction, Zero
 Liquid Discharge
- Green Procurement Initiative to enhance

Sustainability among supply chain

 Technology innovation in Bio-economy to accelerate Climate Action

Governance

Good governance through detailed out

Corporate policies

- Compliance to applicable statutory requirements
- Stakeholder engagement & transparency
- Risk management

Social

- Diversity and Inclusion initiatives
- Health & Safety, Manpower skilling
- Betterment of Society through Social initiatives in the field of Youth skilling, Health & Environment

Bioeconomy-Sustainability Assured!



YEARS AND BEYOND



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Key Initiatives	 Widening and deepening of Streams in 37 drought prone Villages 18.99 lakh cu metres of Silt removed from streams 	 Preventive healthcare program implemented in 33 Villages in Pune Promoting "Food as Medicine" concept through nutrition garden 	 Infrastructure upgraded in 16 schools from 8 districts of Maharashtra Rural entrepreneurship programs
Positive Impact	 1253 open wells and 660 bore wells Recharged 12,360 acres hectares Agricultural land brought under irrigation 	 Enhanced health status of 7000 beneficiaries Improved Hb level and reduction in nutritional deficiencies 	 Life skills education covering 6500 students and more than 50 instructors 22 entrepreneurs are being mentored





Initiatives in 6 thematic areas Water Waste Energy Agriculture Social Nature



Investing for Future

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New Manufacturing Facility for Energy Transition & Climate Action (ETCA)



	Total Area (Acres)	Covered Area (Sq ft)	Open Area (Acres)
Plot-A	72	711,000	30
Plot-B	51	674,000	11
Total	123	1,385,000	41



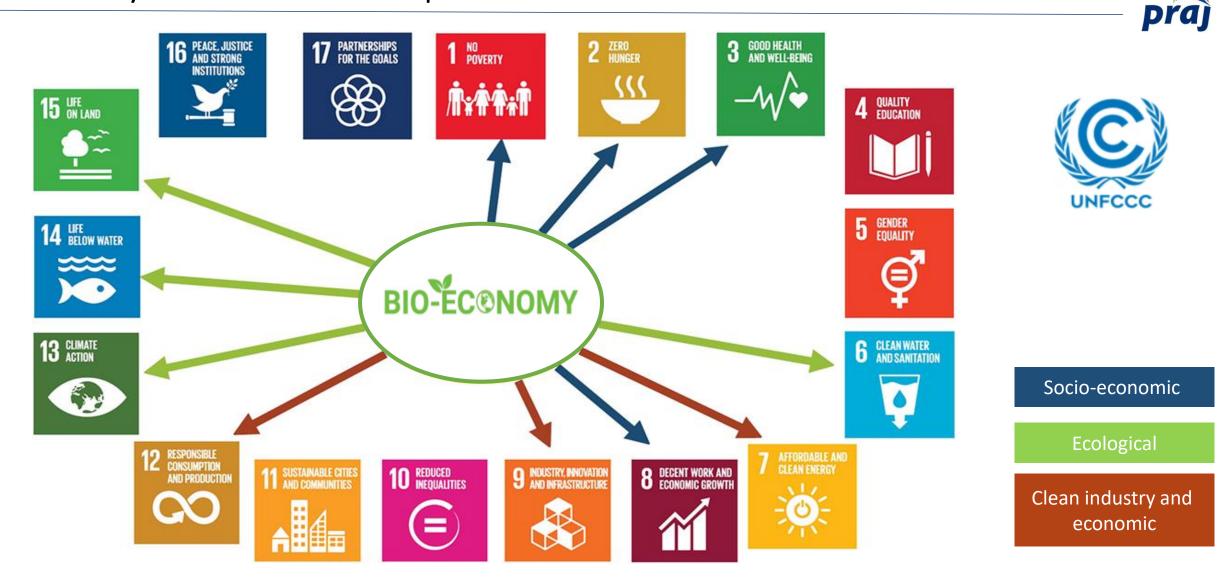
Pilot Plant for Bioplastics



Catalysis lab

Arise 2030 : Future Horizons

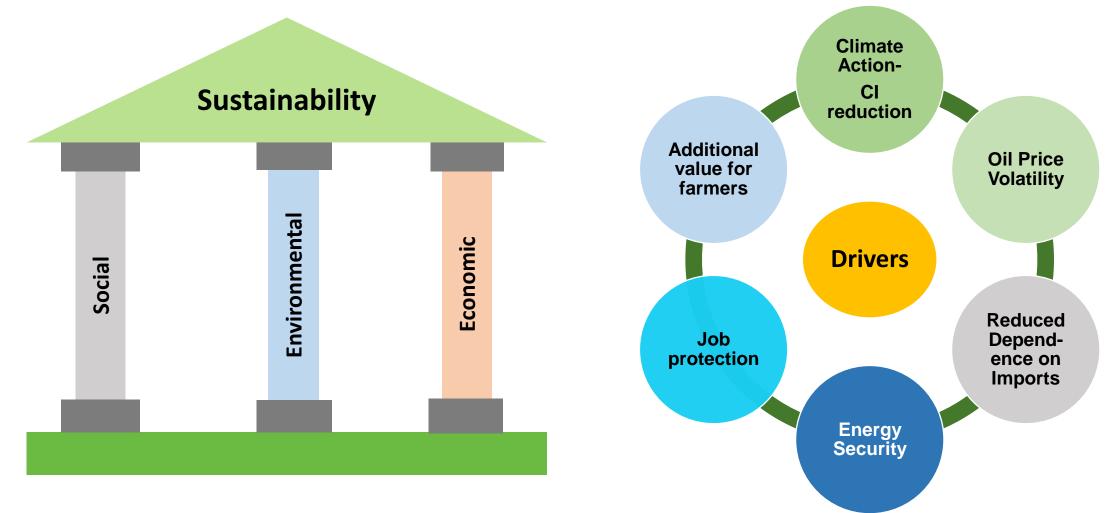
Bioeconomy for sustainable development





Bioeconomy positively impacts 11 of the 17 Sustainable Development Goals







Bioeconomy facilitates holistic development of mankind

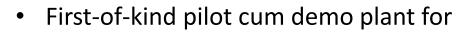




Bio-Prism[®] portfolio comprises of technologies for production of Renewable Chemicals and Materials (RCM).

RCM produced from bio-based feed stocks are sustainable alternatives to products made from fossil resources.

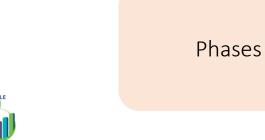




Polylactic Acid (PLA) being set up in the outskirts of Pune

- Capex of around Rs. 60 crores
- Multipurpose facility to be used for PLA,

PHA and other products



Phase 1: Lactic acid Phase 2: Lactide & Protein Phase 3: PHB , Biobutadiene



National Hydrogen Mission



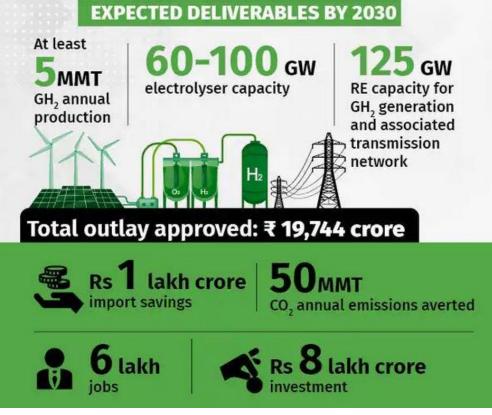
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• Green hydrogen from agri feedstock for

maximum CI reduction

- Hydrogen as future source for energy security
- India's vision as hub for green hydrogen









- Decarbonization of hard to abate aviation sector
- CORSIA guidelines coming into effect from 2027
- India; potential hub for production of SAF



- Mainstreaming of bioeconomy- participation

from global energy majors

- Joint venture approach for leveraging synergies
- Industry landscape evolving
- Partnerships and collaborations; order of the

day

- Asset light business models
- Life cycle management



Praj signed a term sheet with IndianOil to advance plans to

strengthen biofuels production capacities in India.

SUSTAINABLE VEARS AND BEYOND

Biomanufacturing





- Reduction in dependence on petrochemicals in multiple sectors
- Bio 3E Policy (biotechnology for environment, economy and

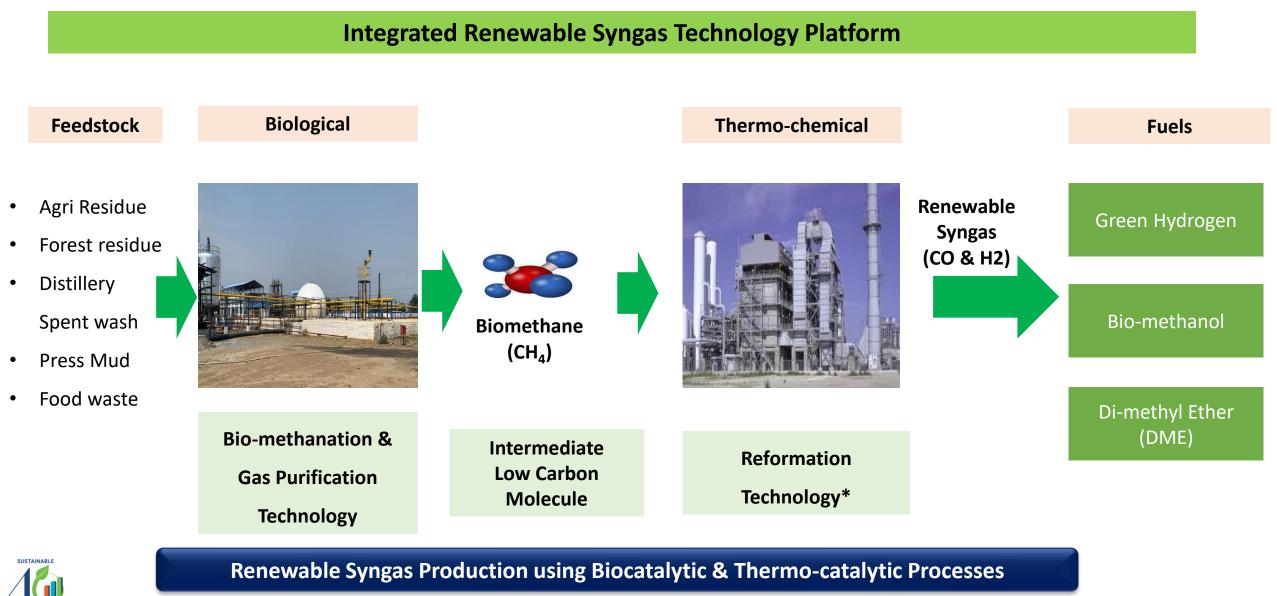
employment)

- INR 10,000 Crore investment envisaged
- Facilitate sustainable development
- Job creation for farming community
- Biopolymers and Biomaterials



SUSTAINARI

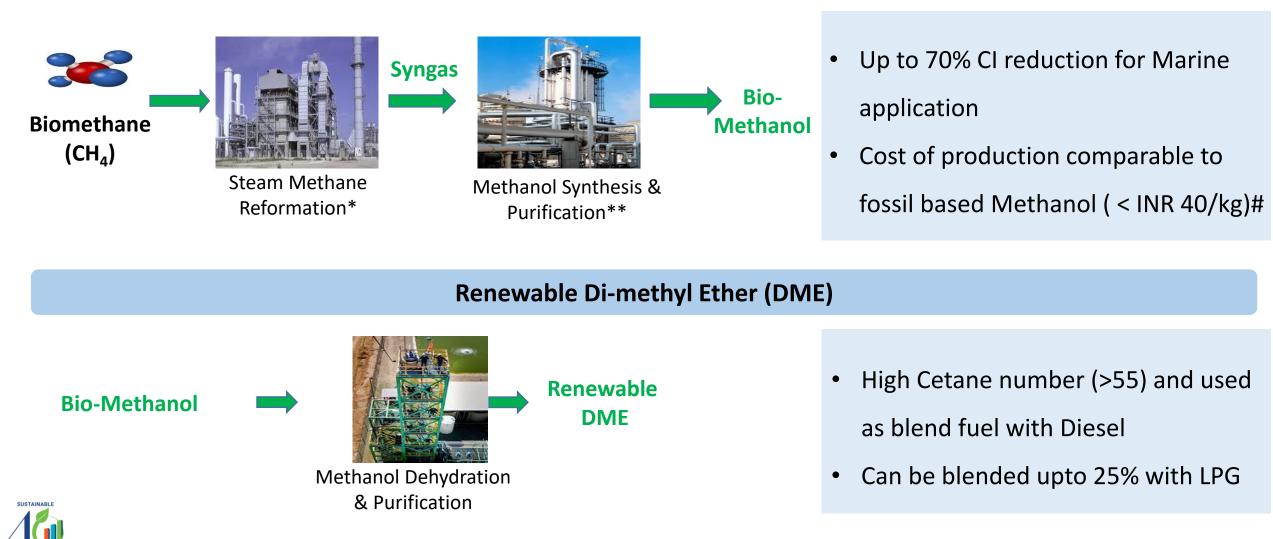


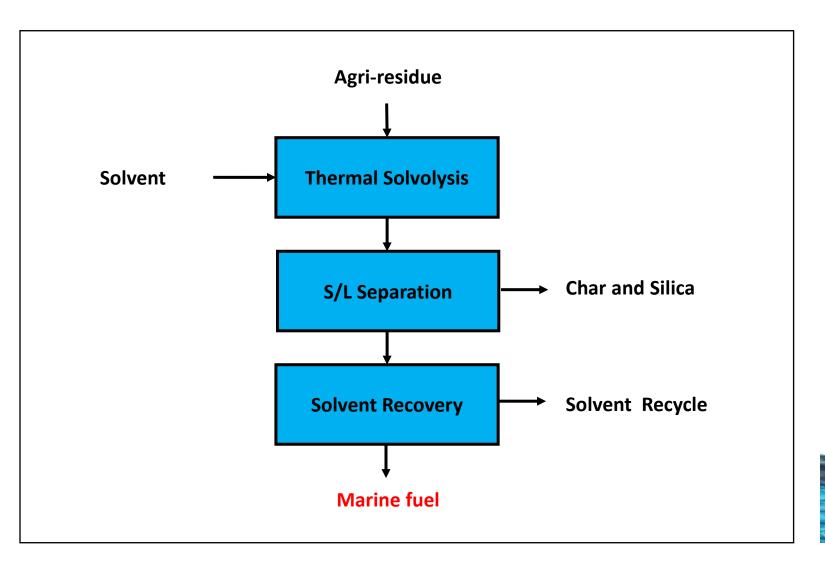


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Bio-Methanol





Marine Biofuel Lab Sample

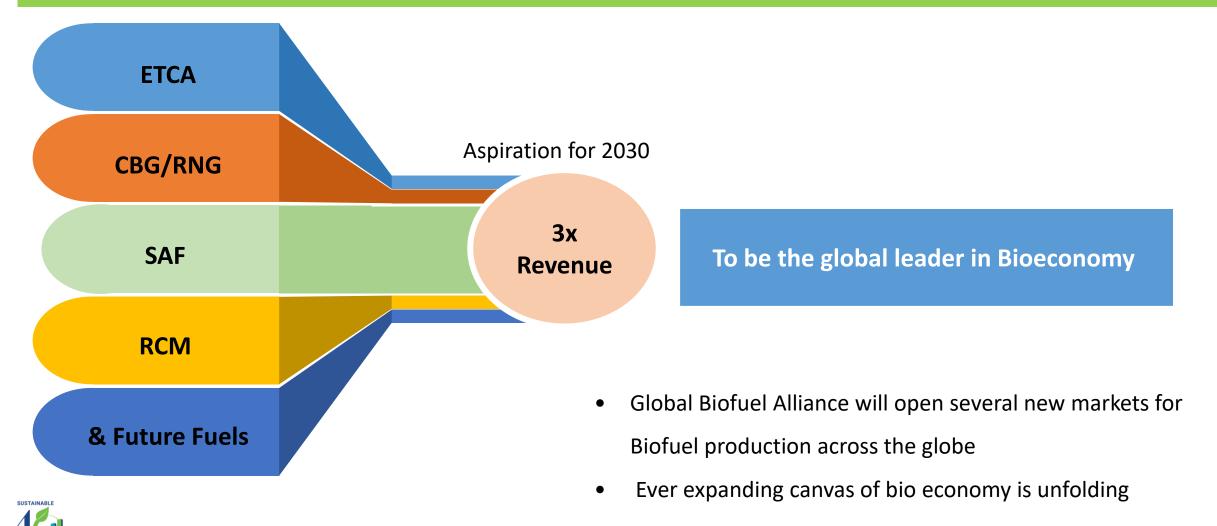








Building Sustainable Future; Together



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