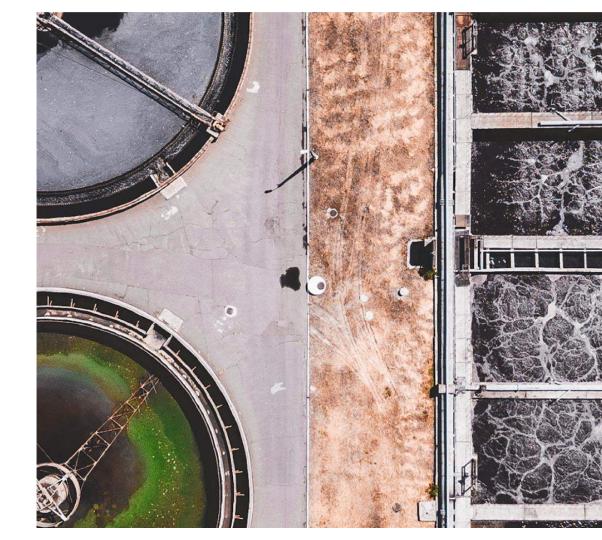
Ossus Green Hydrogen

Producing Hydrogen On-Demand Using Industrial Effluents

June, 2023



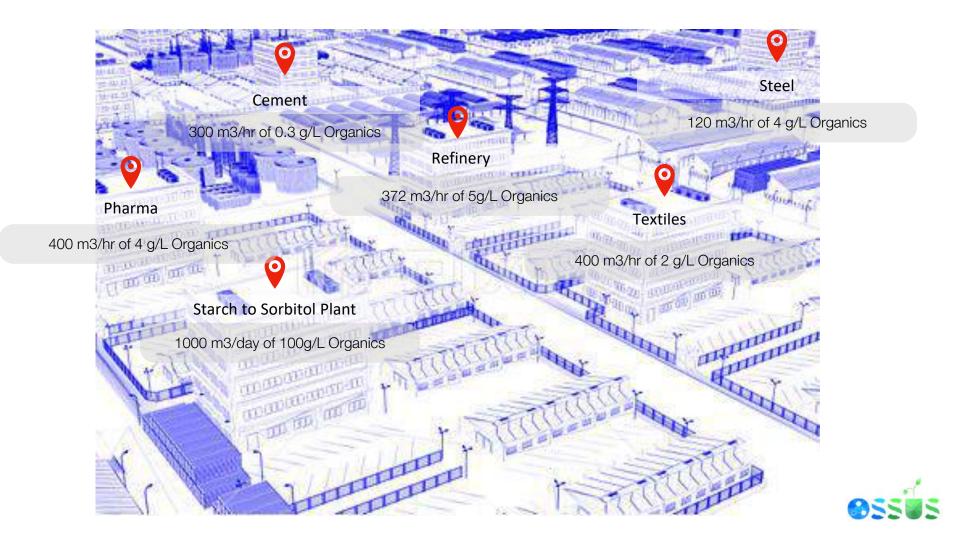
Decarbonising Industrial Hydrogen Requirement Using Waste Carbon





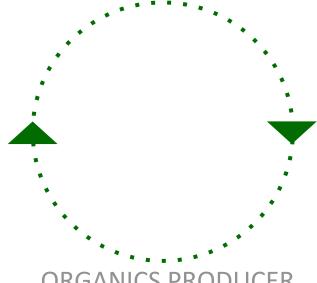






We Produce and Supply Green Hydrogen for Closed Consumption to Process Industries

HYDROGEN CONSUMER





Organics to Green Hydrogen via the OB HydraCel Autonomous Bioreactor

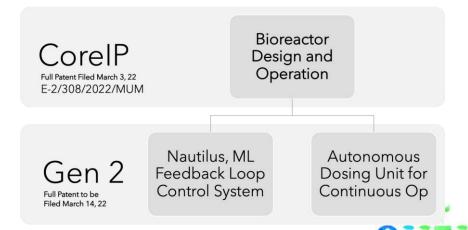
A Single Unit of the OB HydraCel Bioreactor

Controller based on Qualcomm SC20 Chipset

100% Assembled In-house 80% Designed In-house 50% Fabricated In-house

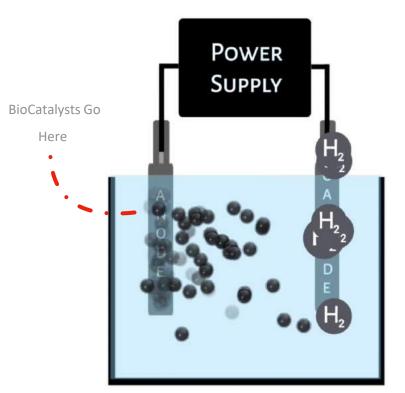


Core IP



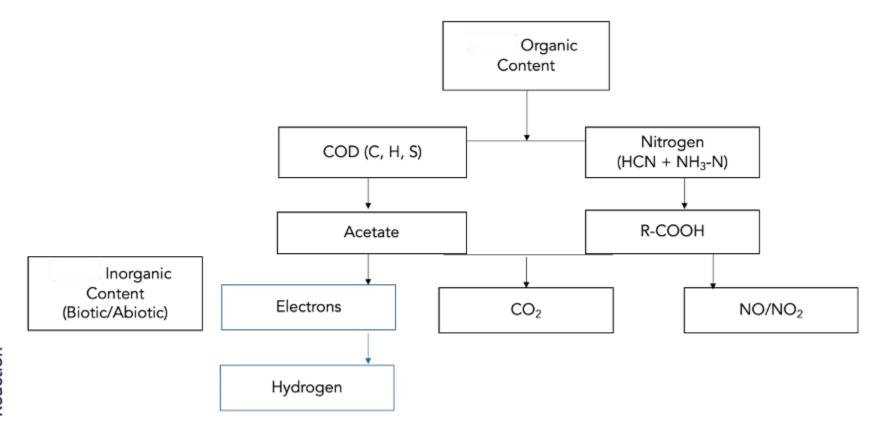
Biogenic Electron Production Linked to Cathodic H₂ Production

We design BioCatalysts that target Carbon in Industrial Effluents*.





Process Flow with the OB HydraCel



Low Energy Consumption, High Water Recovery

99% Waste Recycle

Tapping into

0.76 kWHr/Kg

Lowest Power Requirement in the Market

Sustainable Materials

Does NOT Dependend on Rare Farth Metals 9 Kg of Water/Kg H₂

Enormous water requirement

50-55 kWHr/Kg H₂

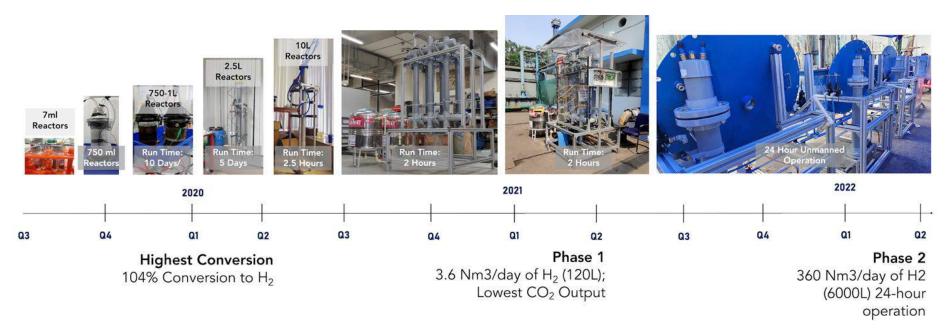
Enormous Power Requirement

Pt/Ir

Dependence on Rare Earth Metals

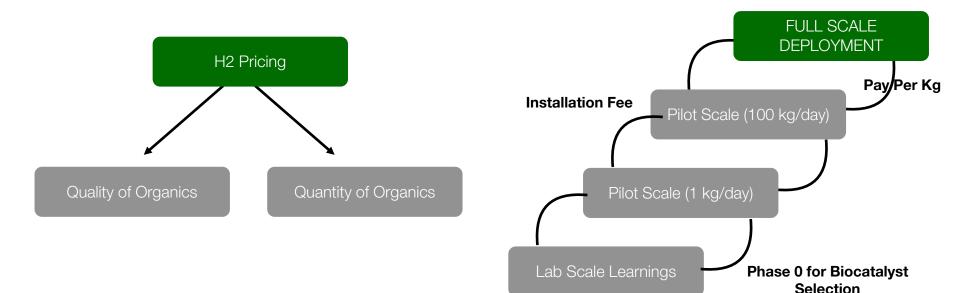


Producing 7200 tpa of gH₂ for Tata Steel at Jamshedpur, India



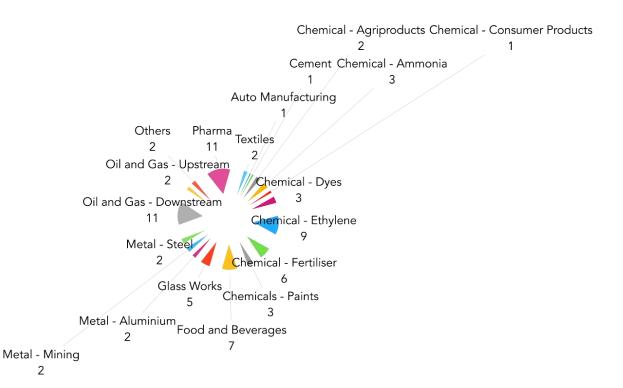


We have BOO Model, Customers Pay Per-Kg-H₂ Produced Per Day



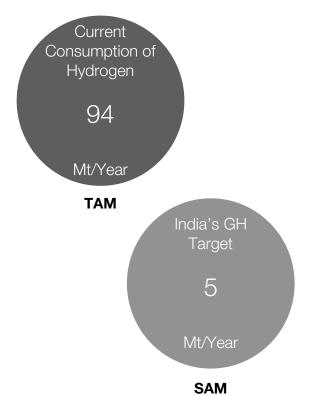


We are targeting core players who have manufacturing capacity across multiple sectors





Bidirectional Market Sizing Targeting H₂ Consumption



	m3/hr				
COD g/L	10	100	200	500	1000
1	0.01	0.1	0.2	0.5	1
2	0.02	0.2	0.4	1	2
3	0.03	0.3	0.6	1.5	3
4	0.04	0.4	0.8	2	4
5	0.05	0.5	1	2.5	5
6	0.06	0.6	1.2	3	6
7	0.07	0.7	1.4	3.5	7
8	0.08	0.8	1.6	4	8
9	0.09	0.9	1.8	4.5	9
10	0.1	1	2	5	10
100	1	10	20	50	100



Who are our current customers?



Indian Steel Sector



Downstream Oil and Gas



Chemicals



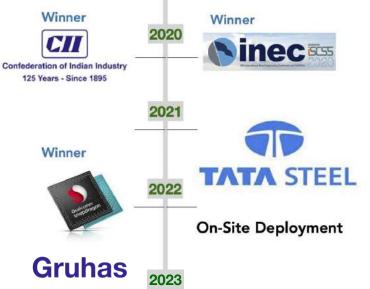
Food and Bev



Our Journey

Consistently Delivering Value





Rainmatter



Our GTA is evolving as we expand to SEA



ASK

