



vedanta
transforming for good

aluminium

Investor Site Visit



Forward Looking Statement

01

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02

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Vedanta Aluminium

India's Largest Producer

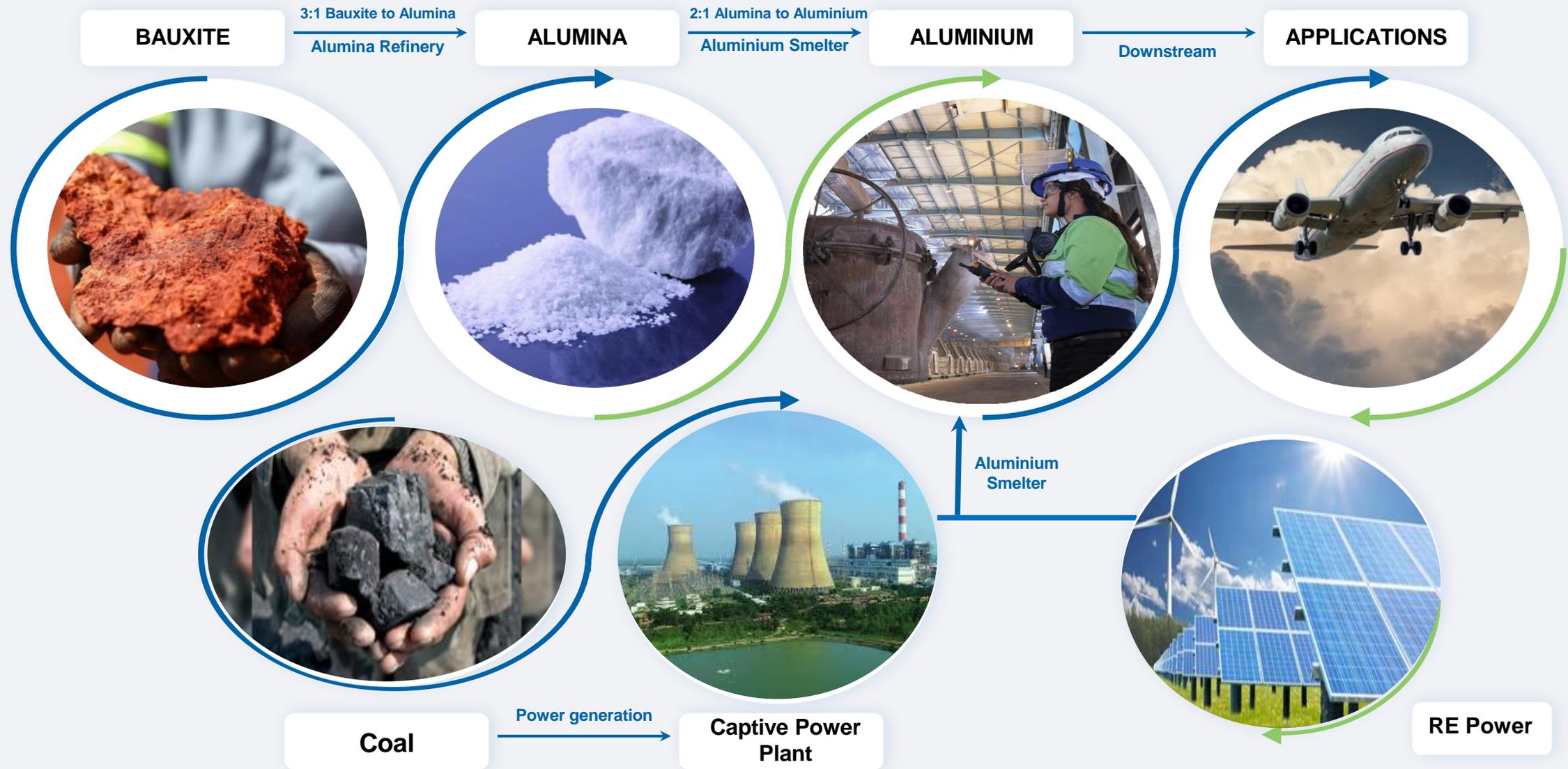


John Slaven

Chief Executive
Officer – Vedanta
Aluminium



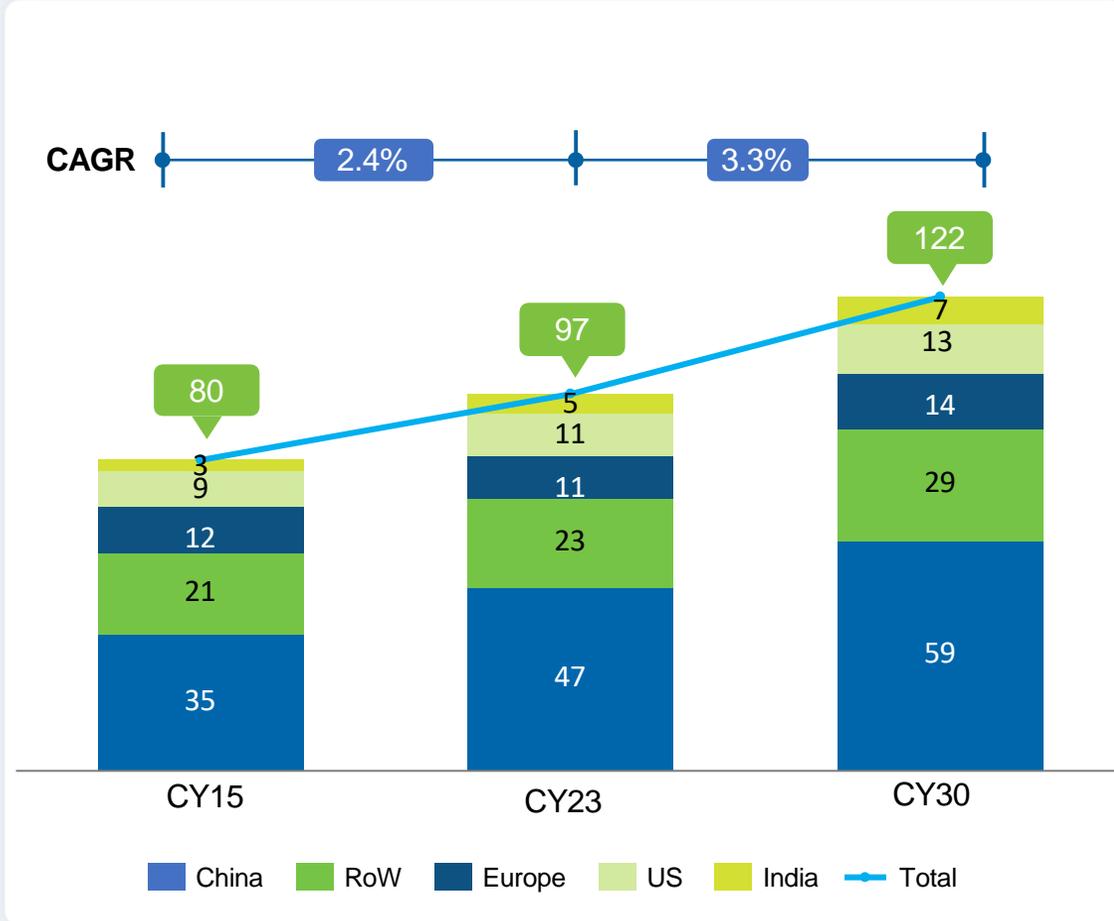
Industry Value Chain



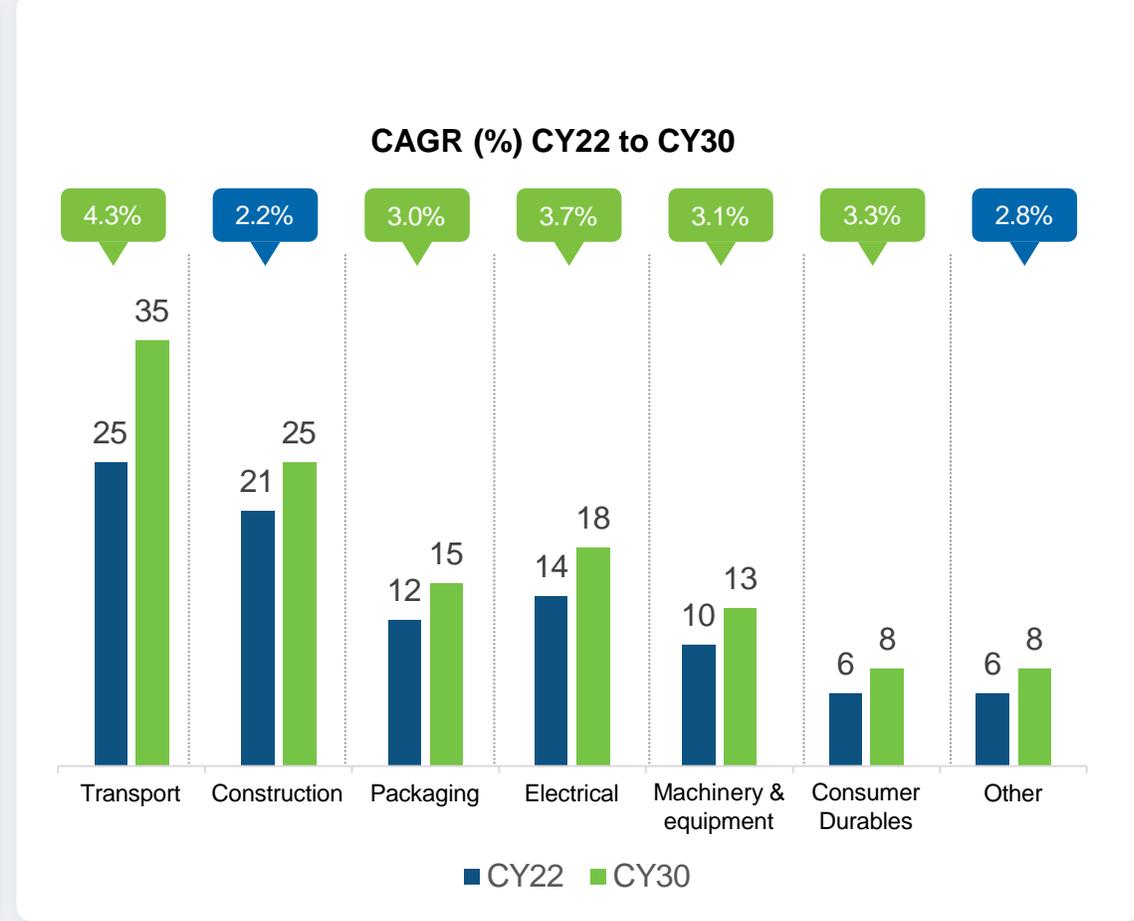
Aluminium: The Metal of Future

Strong Global Demand to be driven by Sunrise Sectors & Emerging Economies

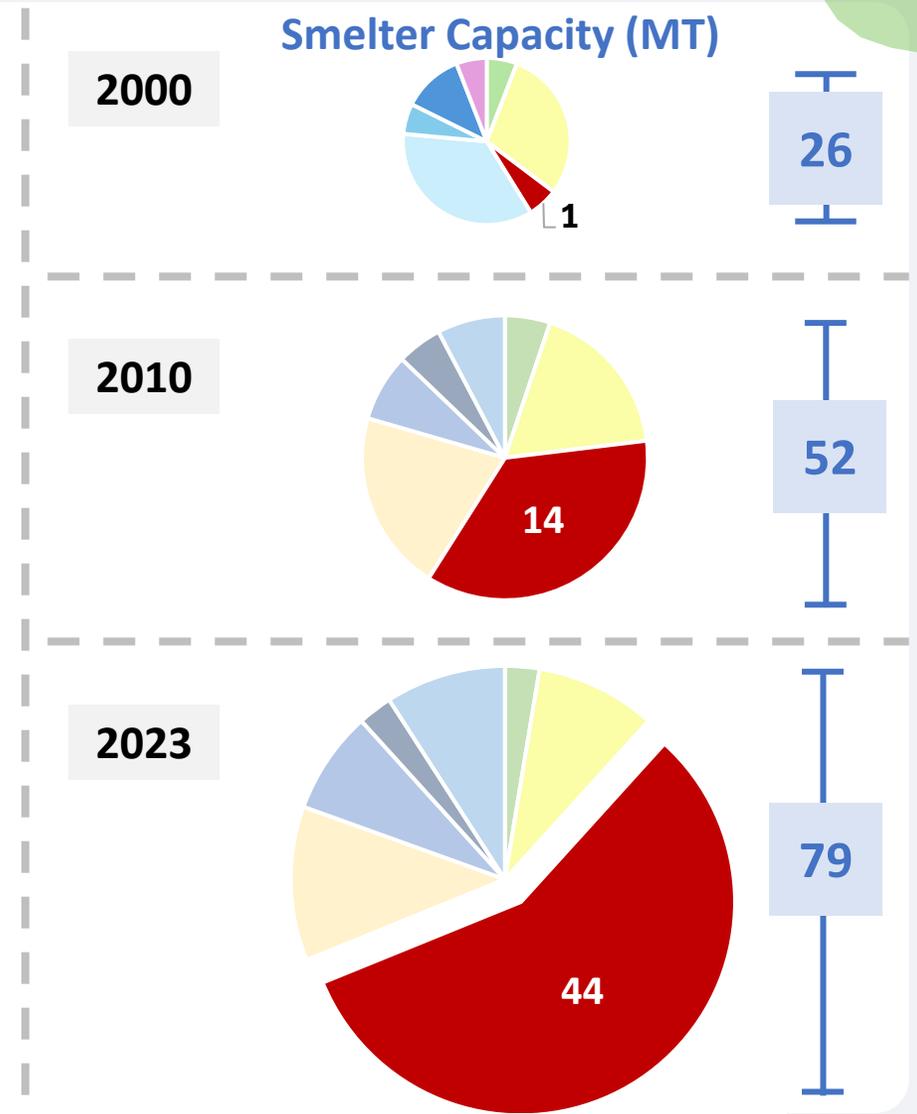
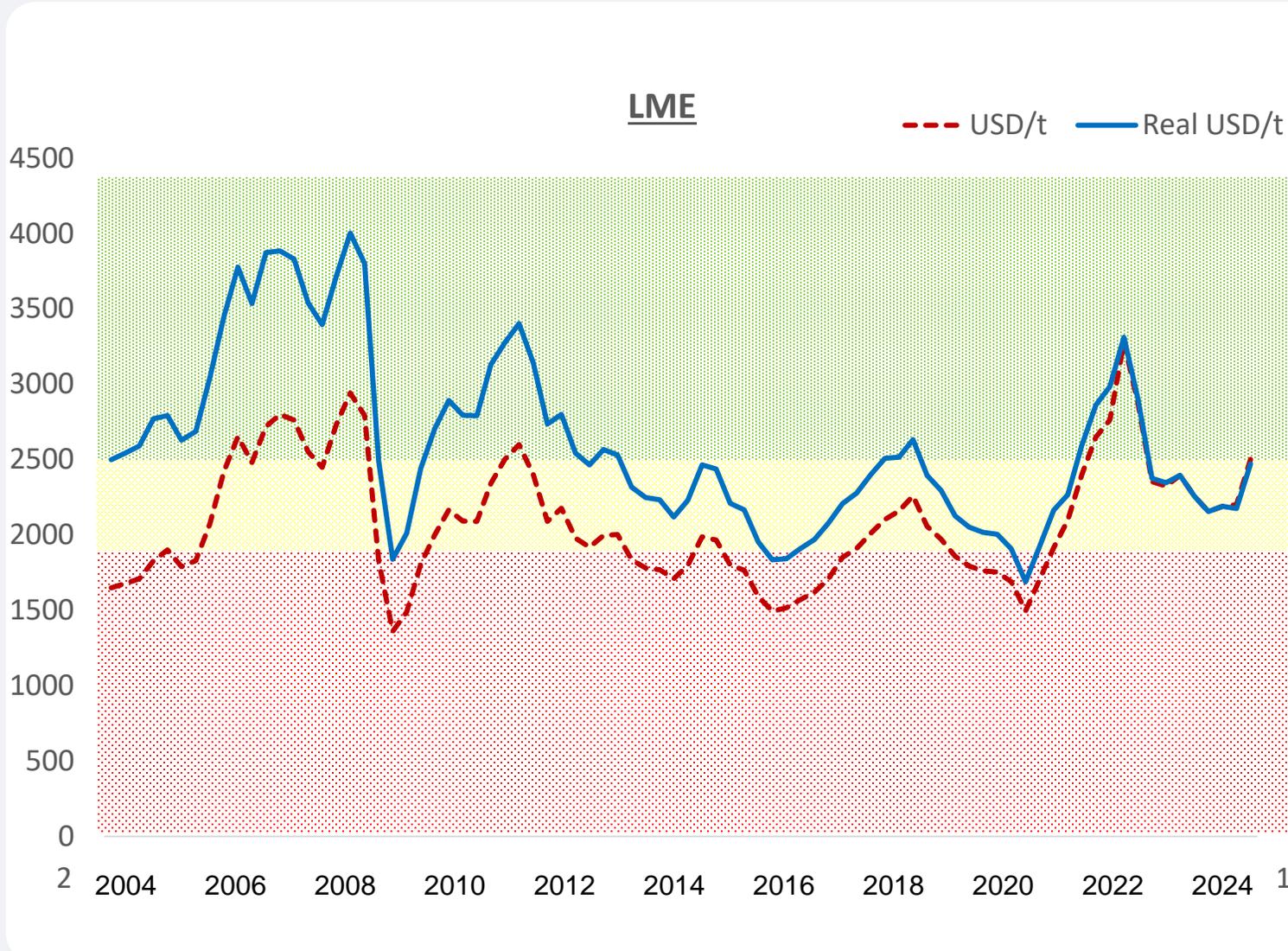
Global Semis Demand by Region (MnT)



Sectoral Demand (MnT)

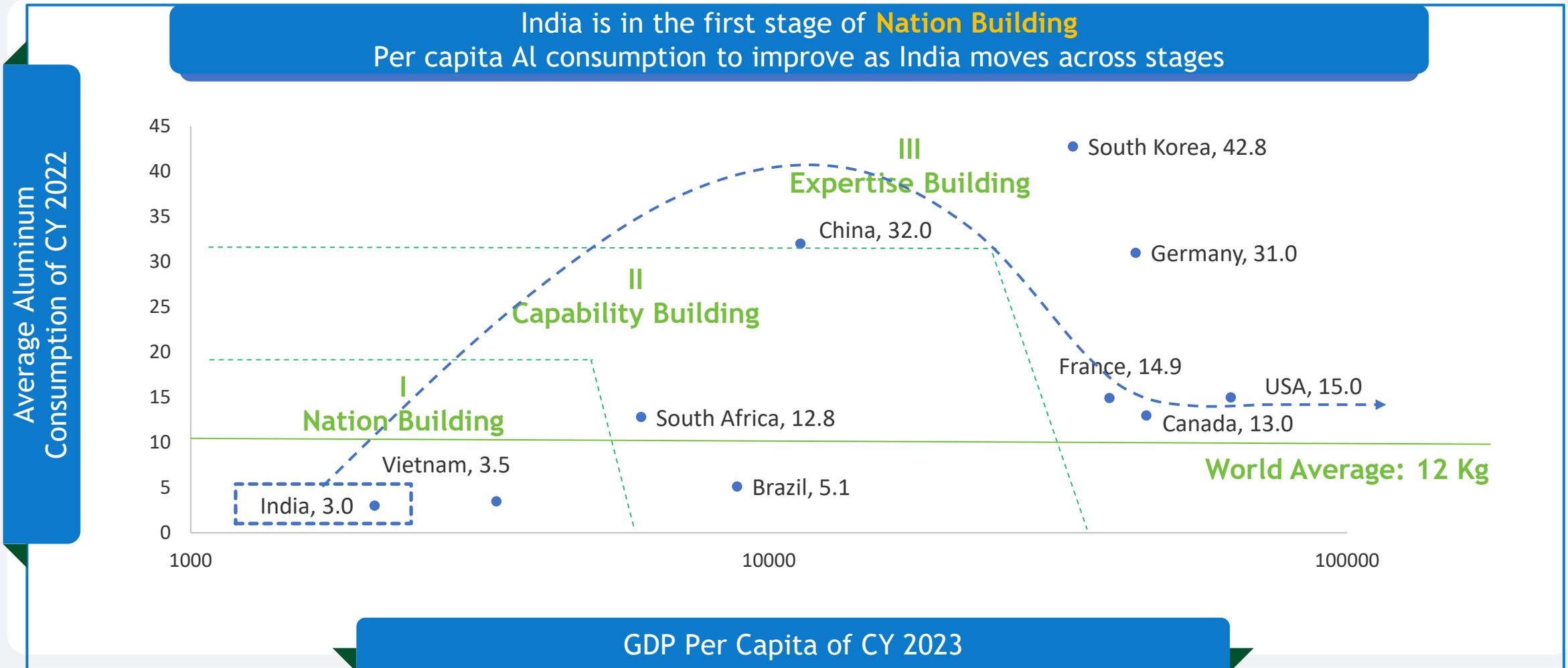


Smelter Growth in China has capped prices since early 2000's



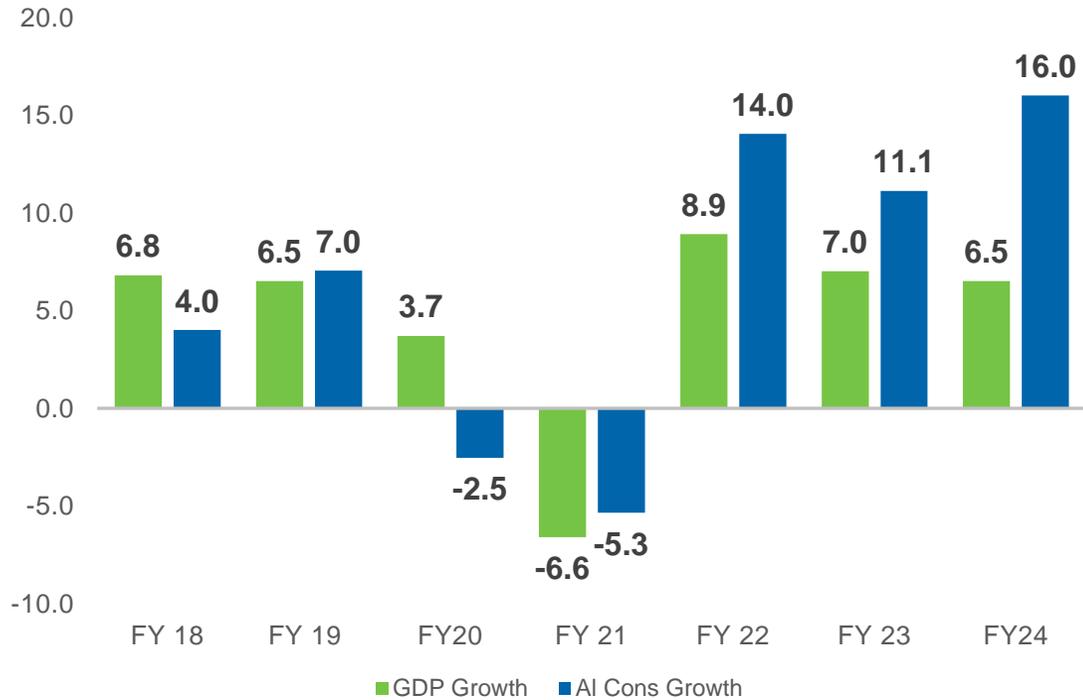
Significant upside potential for demand growth

Per capita demand for India is currently at 3.0Kgs vs World average of 12Kgs



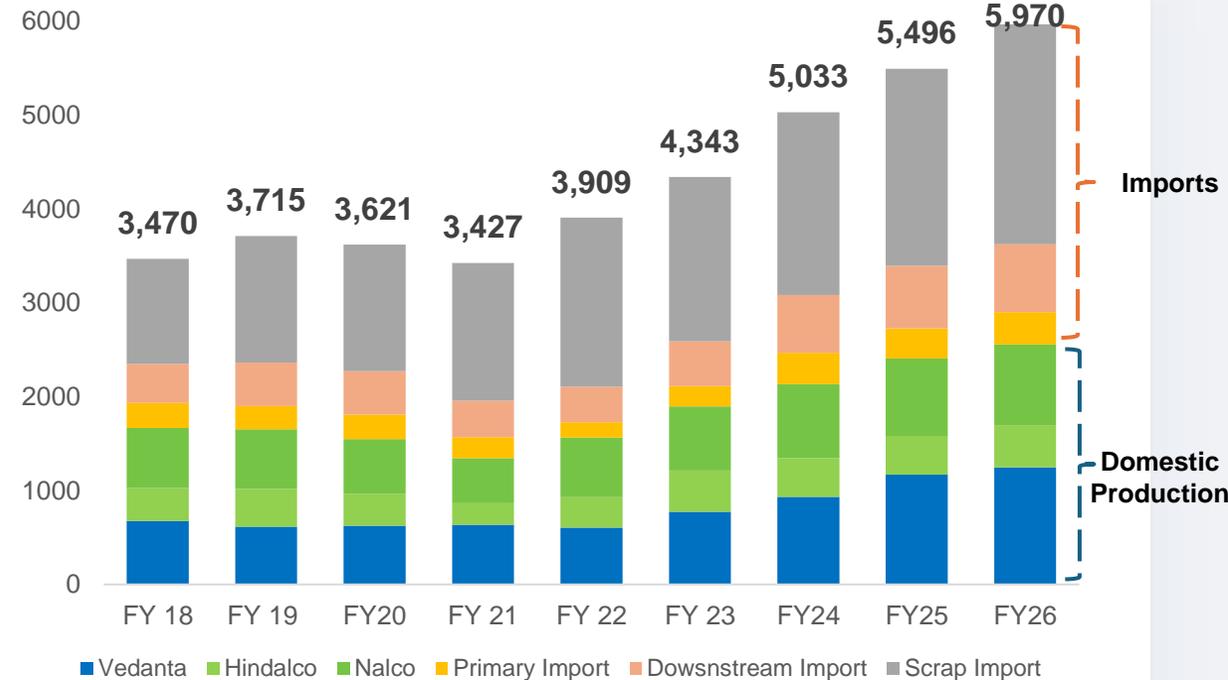
Increasing market share in India's strongly growing market

Growth Rate of India's GDP vs Aluminium Consumption (%)



Aluminium demand is expected to exceed the India GDP growth by at least 2x

Aluminum Consumption – India (in kt)



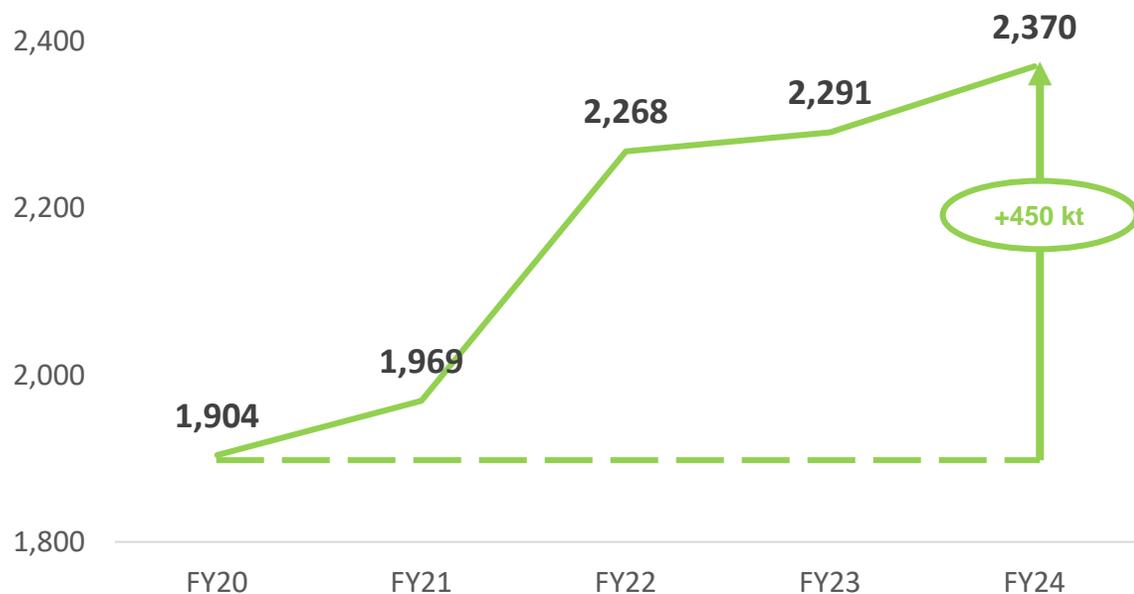
Vedanta Aluminium is well placed to cater to the domestic demand increase and displace imports

Irreplicable and Unparalleled Assets



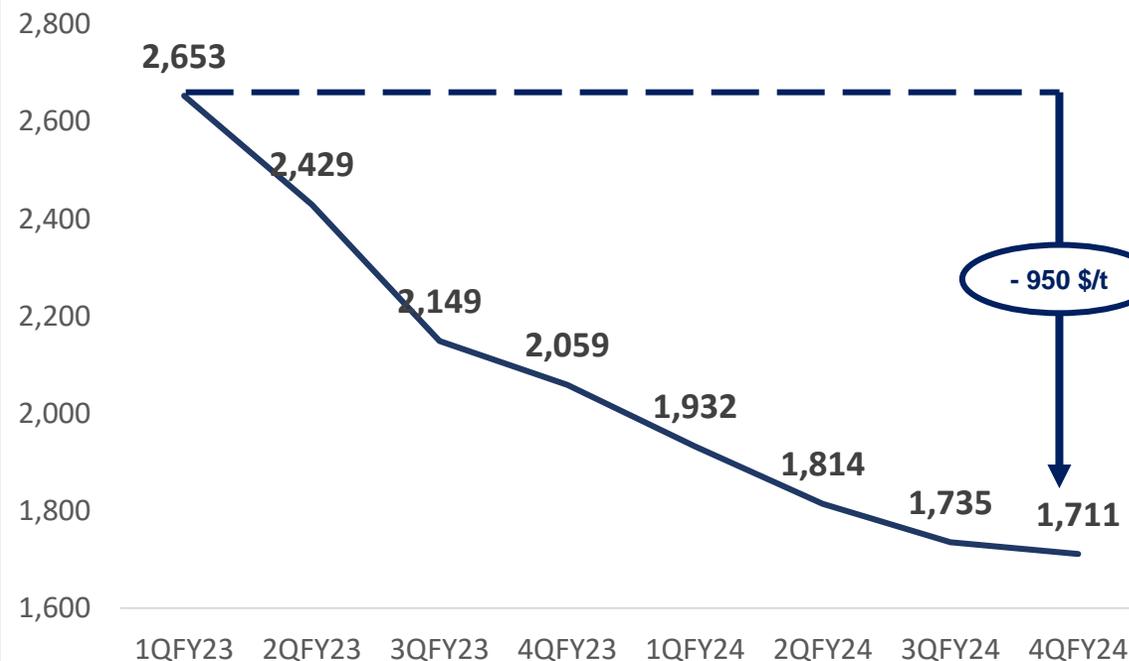
Demonstrated track record of **Operational Excellence** in Volume and Cost

Production Volume (in KT)



▲ 25%

Cost of Production (in \$/T)

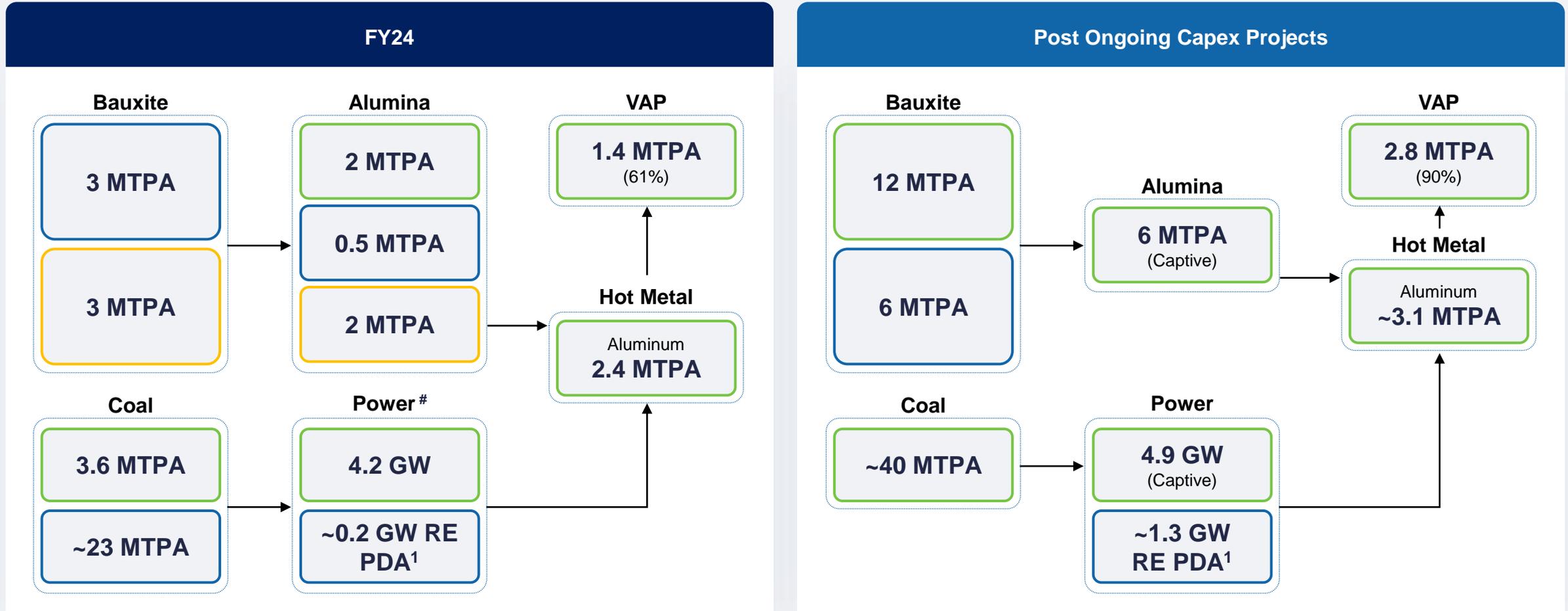


▼ 35%

Driving profitable growth through balanced vertical integration

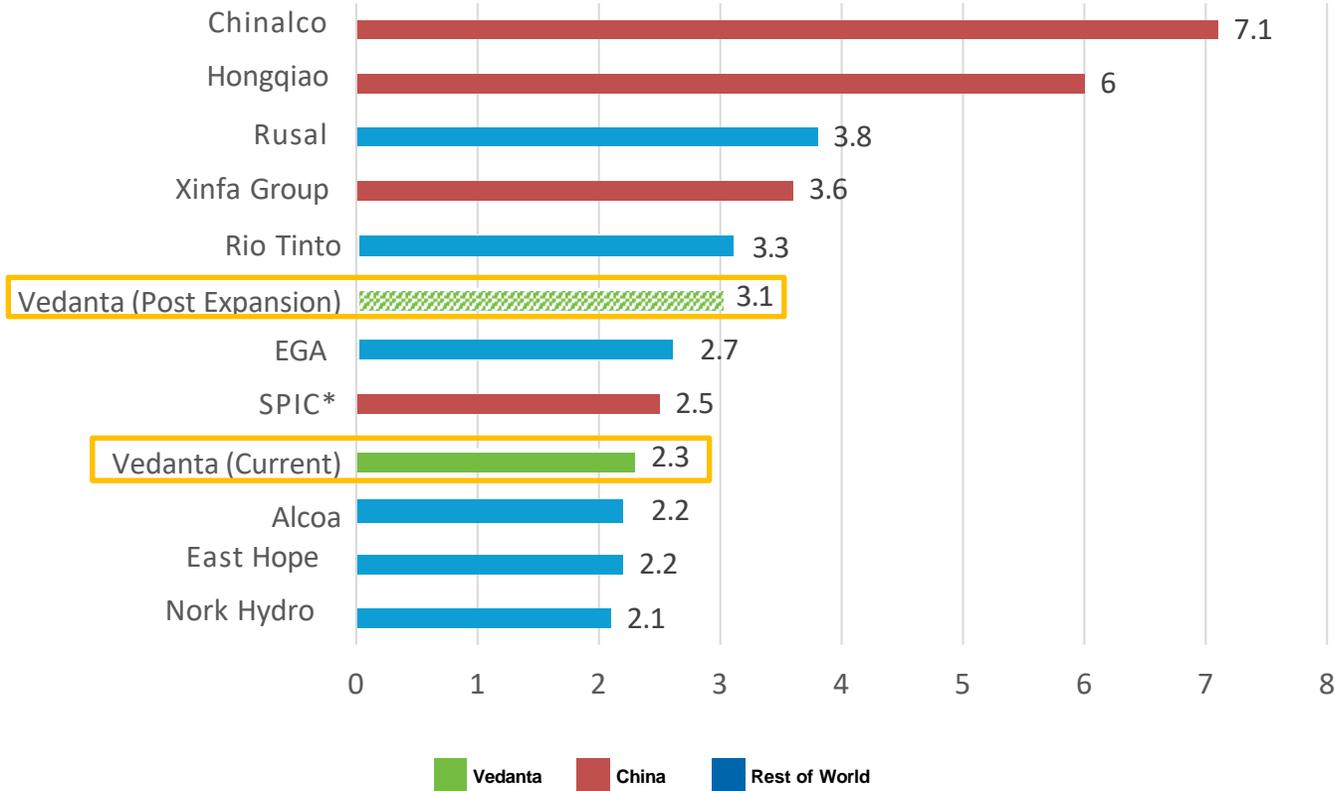
Projects underway to achieve ~3.1 MTPA of *Integrated Supply*

Vedanta Value Chain



Vedanta among Global Aluminium Leaders

Production (MTPA) - CY2023



Currently, at an aggregate levels, Vedanta Aluminium is placed **8th** in the world



Ex-China, placed at **4th**

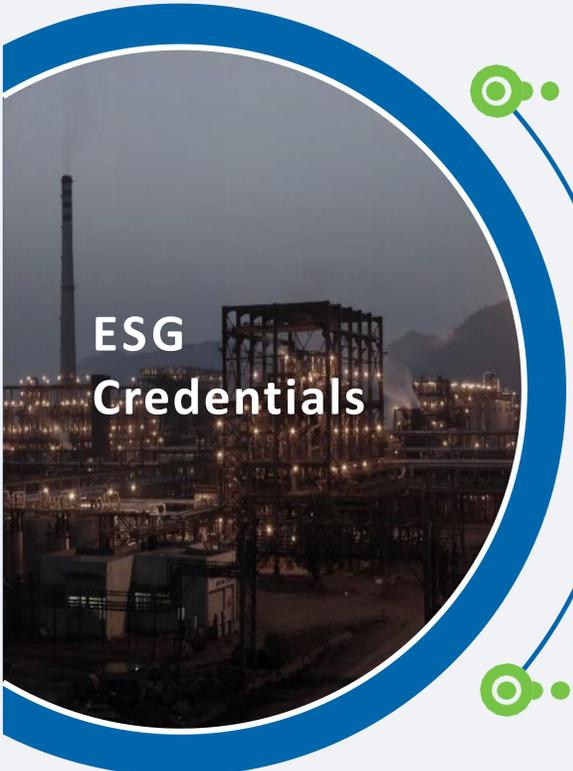


Post expansion to 3MTPA, Vedanta Aluminium will rise up to **6th** in the world



Ex-China, will be placed at **3rd**

Our commitment & path to Sustainability excellence



asi Aluminium Stewardship Initiative

ASI Certified Smelters
ASI Chain of Custody

1

S&P Global

Corporate Sustainability Assessment (CSA)

Vedanta Aluminium¹

Most sustainable aluminium producer

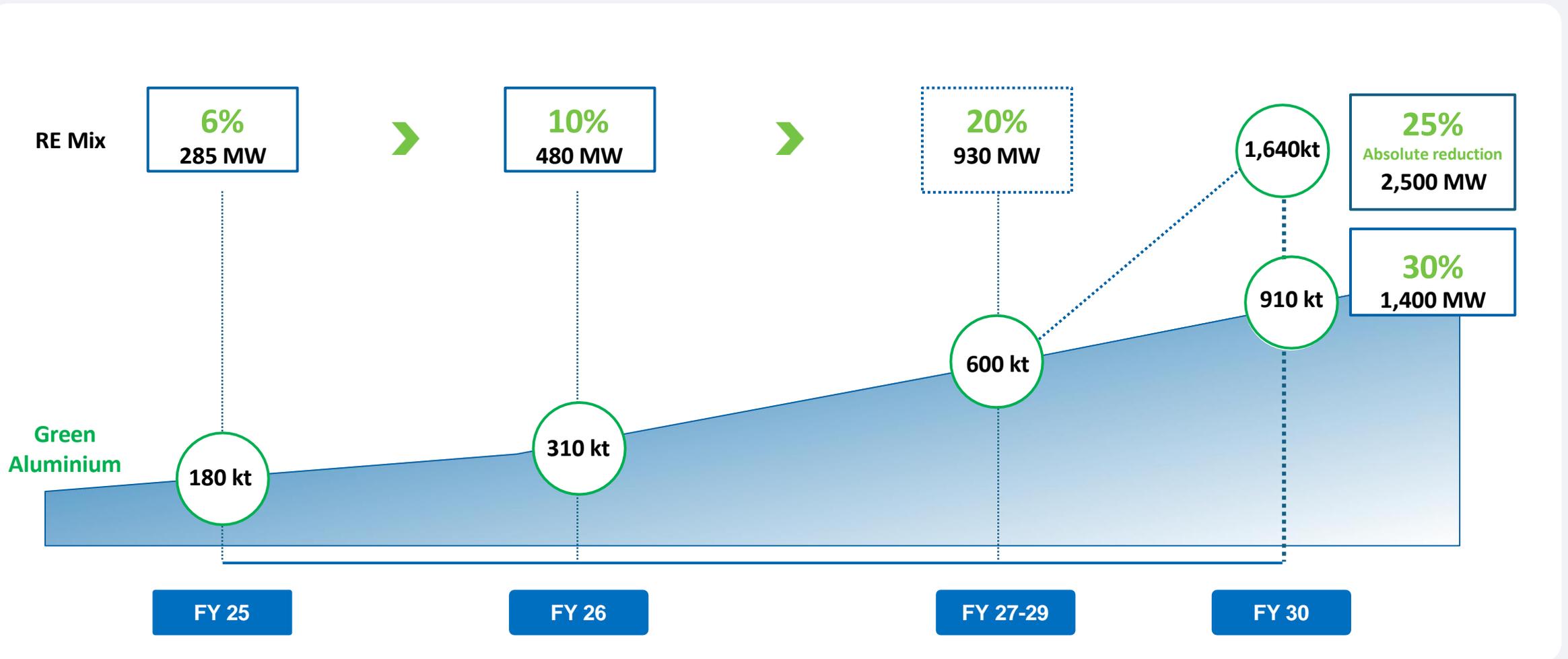


India's first **GREEN** Aluminium

*UN SDGs

	Climate 8% GHG reduction Plantation drive	
	Community +27k family empowered	
	People +25k employees 19% Diversity	
	Waste Management 100% ash utilization 90% recovery from dross	
	Energy 1.3 GW PDA signed ~150 MW utilized	
	Water Recycled 14.5 mn m ³ +40 community ponds	

Increasing share of Renewable Energy & Green Aluminium Production



Renewable Energy – Photos from our Solar & Wind Project Site

Wind



Solar



Executive Leadership Team

John Slaven

Chief Executive Officer
+37 years of Metals & Mining experience with BHP, Alcoa, BCG, De Beers



Anup Agarwal

Chief Finance Officer
+26 years experience in Metals, Mining, Power and Cement



Sunil Gupta

Chief Operating Officer
+29 years of experience in Aluminium and Cement Industry



David Stone

Chief Executive Officer, Coal
+30 years of Global experience in mining operations with Anglo American, Xstrata, Glencore



Alok Ranjan

Chief Marketing Officer
+22 years of enriching experience in Sales & Marketing, and raw material procurement



Dilip Sinha

Chief Human Resource Officer
+27 years of rich experience in HR in Manufacturing, Mining, Retail & Supply Chain Industries with large workforce



Phillip Campbell

Technical Advisor
+44 years of diverse, global experience across mining and refinery operations with Alcoa, Rusal



Rajesh Kumar

Chief Executive Officer, BALCO
+37 years of experience in Metals with Tata Steel



Pranab Bhattacharyya

Chief Executive Officer, Alumina
+30 years of rich experience across various industries



Sonal Choithani

Chief Brand & Comms Officer
+24 years in Corporate Communication, Public Relations, Branding, Corporate Affairs, CSR and ESG



Timothy Stonehouse

Dy COO, Alumina
+21 years of global experience in Mining & Metals with Alcoa, Rio Tinto, Ma'aden



Deepak Gulati

Chief Supply Chain Officer,
+28 years of experience in supply chain and logistics in manufacturing, cement, retail & FMCG industries



Harmeet Sehra

Head CSR
+ 22 years of experience in CSR across Metal & Mining and Oil & Gas industries



Patrick Fordyce

Chief Operating Officer, Alumina
+41 years of global experience in mining and refining with Rio Tinto, Ma'aden, Newcrest

COMPOSITION OF OUR LEADERSHIP TEAM

Our leadership team is a powerhouse of diverse expertise, seamlessly integrating seasoned technical and functional specialists with visionary entrepreneurial minds. With an average age under 55, they bring a dynamic blend of youthful energy and extensive experience, averaging 30 years in their respective fields.

This unique combination fosters a culture of innovation and continuous learning, ensuring we are well-equipped to navigate the ever-evolving market landscape.

Key Messages



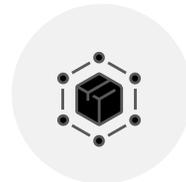
Strongly growing demand for **Metal of the Future** to enable energy transition



Home ground advantage in **India**, with **market** expected to **double in 5 years**



Local, vertically-integrated supply chain enabling **industry-leading costs**



Exclusive focus on value-added products to meet sophisticated customer needs



~3.1 MTPA production at **\$1,350/T EBITDA margin** delivering exceptional value creation



Marketing

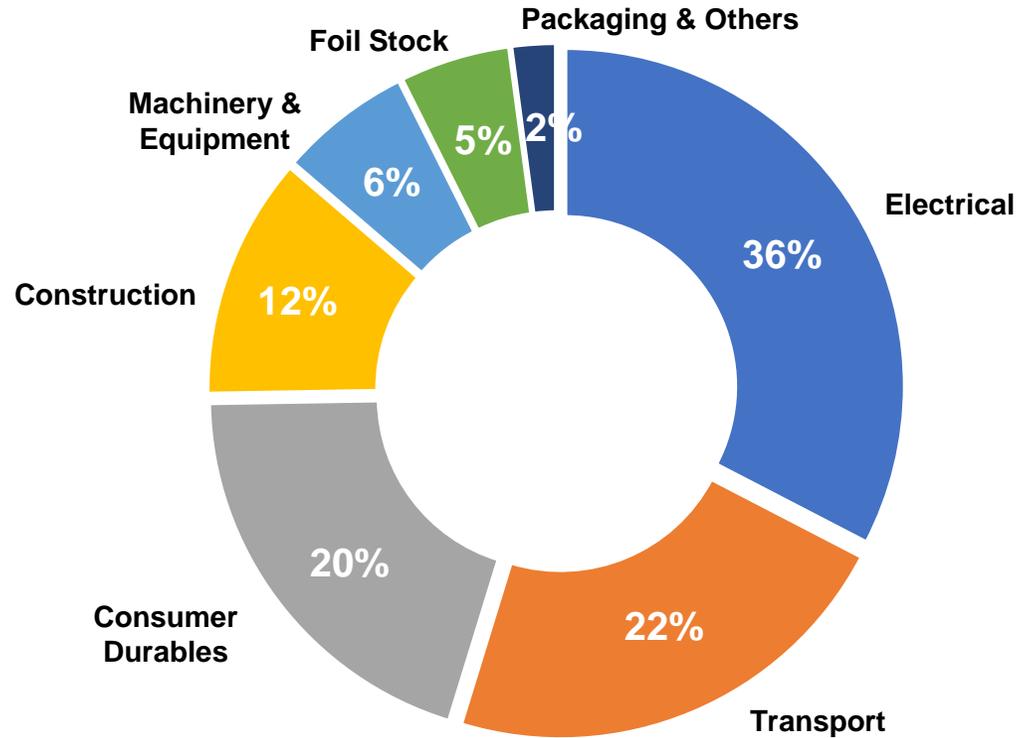
Enabling India's Rapid Growth

Alok Ranjan
Chief Marketing
Officer, Vedanta
Aluminium

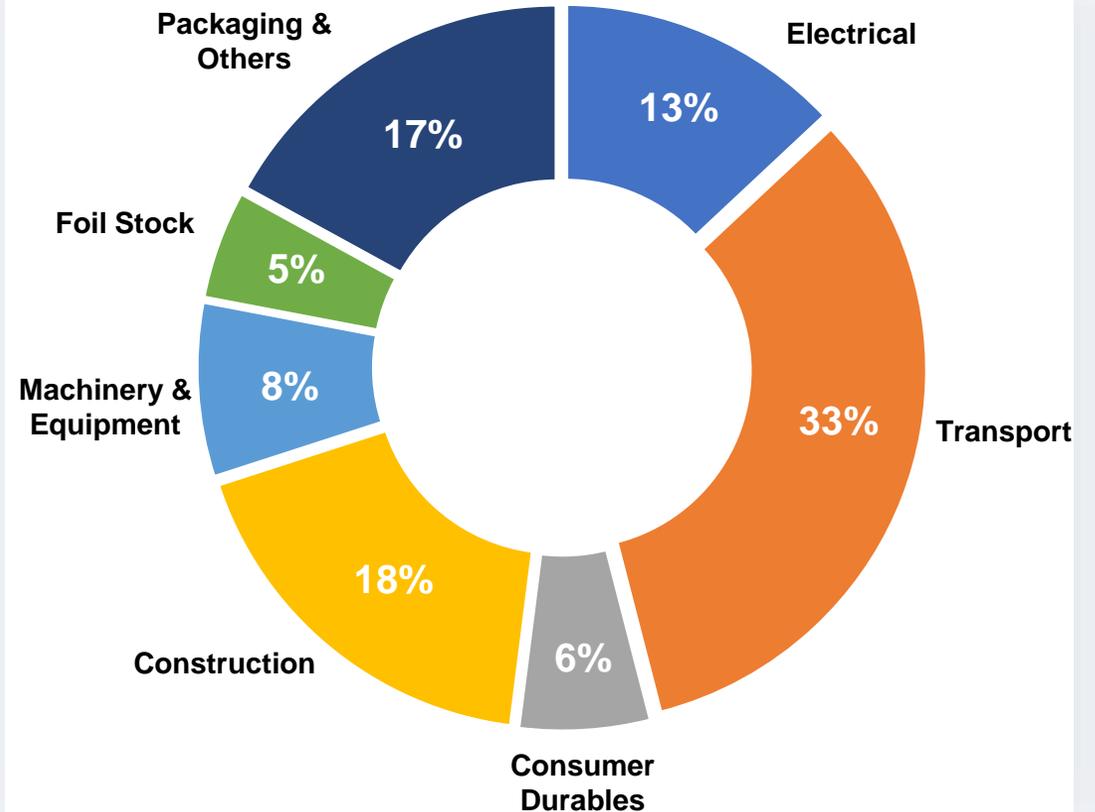


Consumption Snapshot – India vs World Ex. China

India Consumption by Segment – CY24



World Ex. China Consumption by Segment – CY24



Electrical segment is the largest domestically with 31% while Transport segment is the largest with 33% in World Ex. China

Vedanta Aluminium, Making Modern Life Possible



Aeroplanes, Rockets, Missiles, Satellites & More
Products - Rolled Products, Billets, Ingots, AlSi T-Ingots



Power and Renewable Energy
Products - Billets, Rolled Products, Wire Rods, Ingots, AlSi T-Ingots



Buildings, Bridges, Stadiums, Public Infrastructure
Products - Billets, Wire Rods, Ingots, AlSi T-Ingots



Public Transport
Products - PFA, Billets, Rolled Products, Ingots, AlSi T-ingots



Automobiles and EVs
Products - PFA, Billets, Rolled Products, Ingots, AlSi T-Ingots

Aluminium Landscape

Strategic Approach



Right Product
Capacity expansion plan in line with market demand



Value Addition

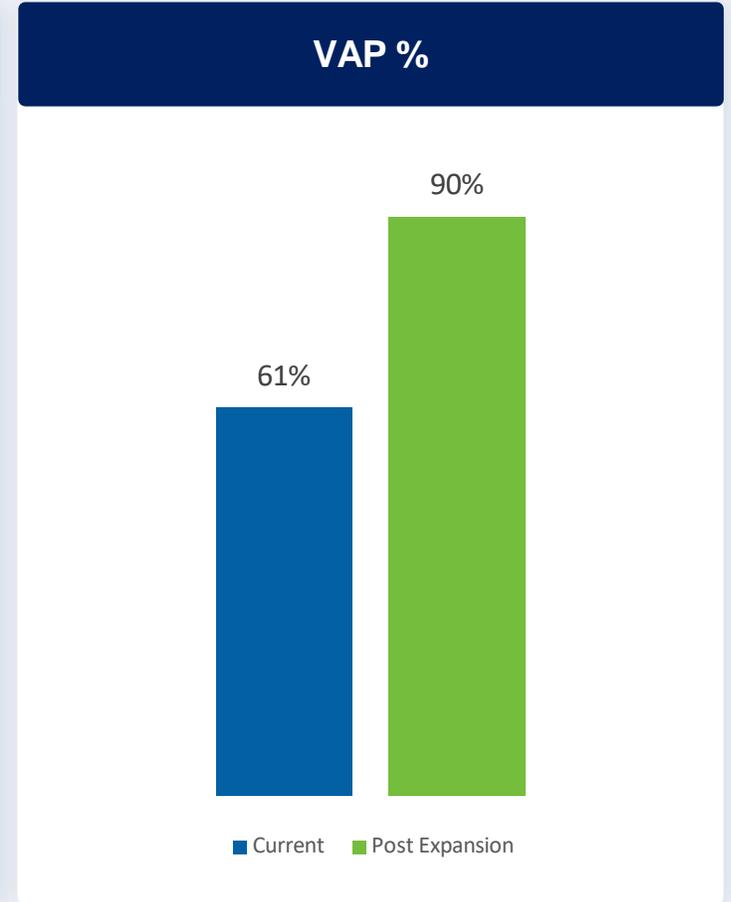
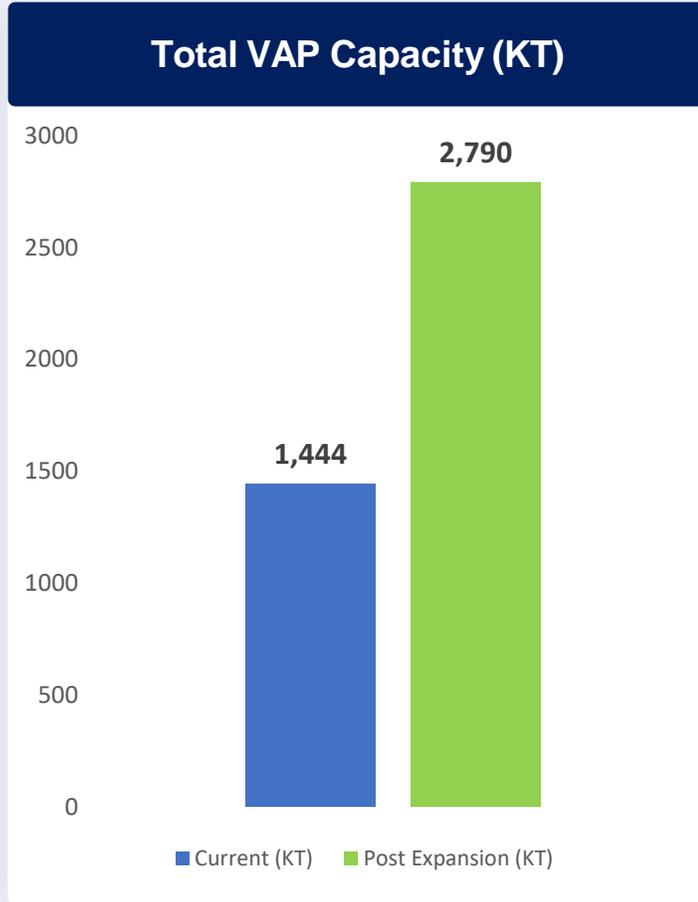
Industry first, end-to-end digital solution for empowering the customer



Developing an Eco-system

Creating a healthy cohort in the vicinity for downstream industries

Adding VAP capacities in line with Market



Comprehensive product range catering to broad customer base



Billets
1xxx,3xxx,6xxx



Wire Rod
1xxx,6201 T4,AI59,8xxx



APAR INDUSTRIES LTD.



Primary Foundry Alloy
A-356,LM



Rolled Product
1xxx,3xxx,8xxx

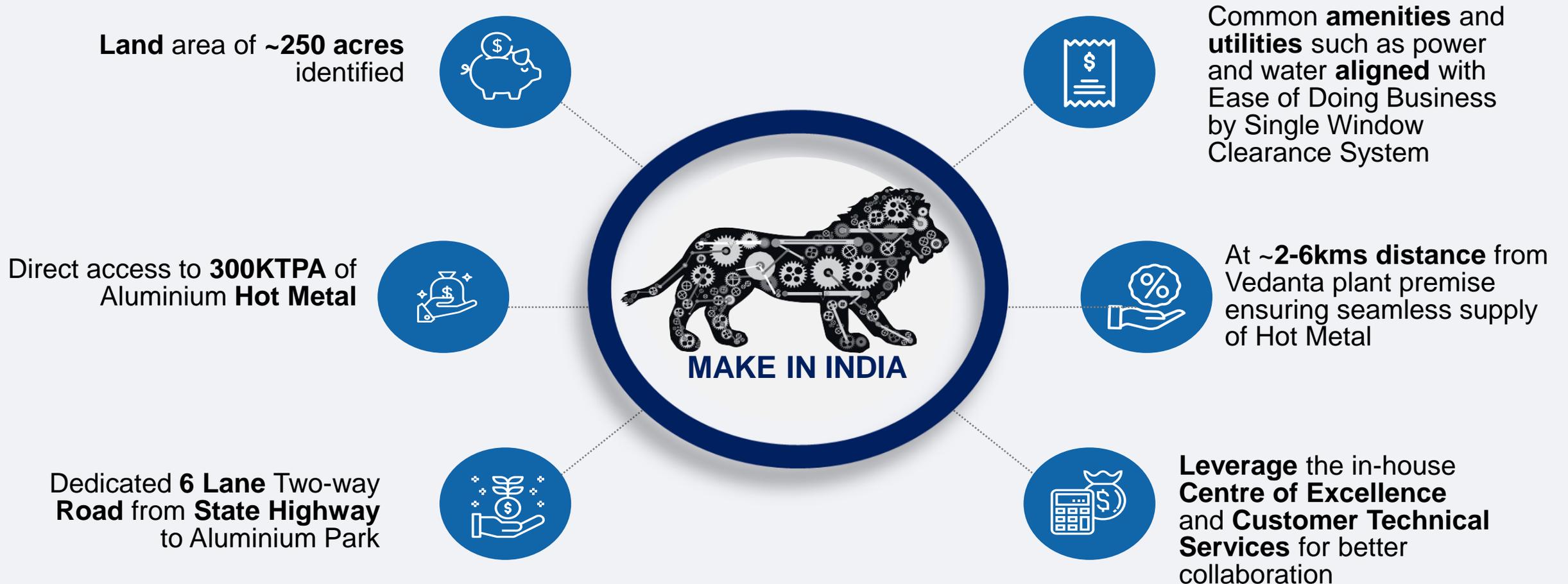


VISHAL
ALUMINIUM
PRIVATE LIMITED



Aluminium Park - Jharsuguda

Vedanta Aluminium Park is a joint venture between Vedanta Aluminium and the Odisha Industrial Infrastructure Development Corporation (IDCO), to promote setting up of downstream industries.

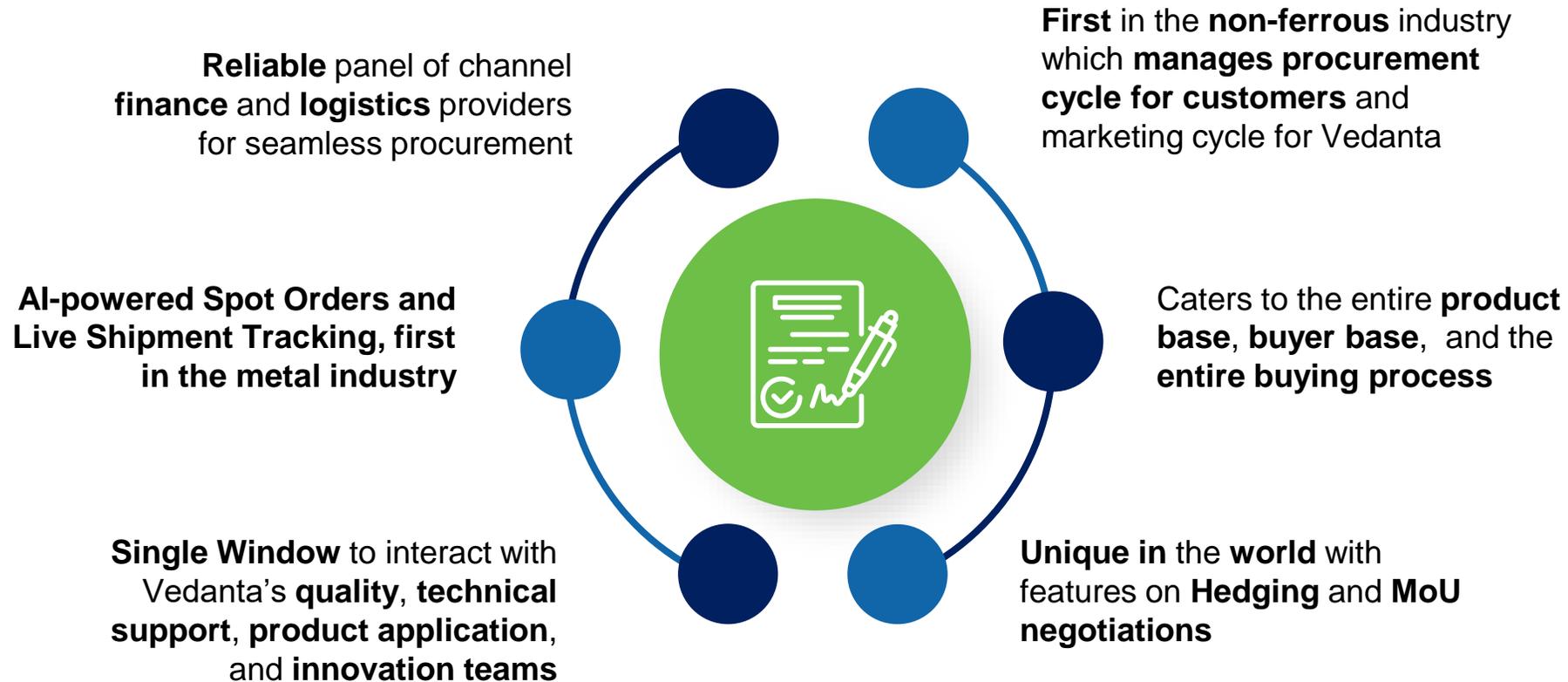


Vedanta Metal Bazaar



Overview

To enhance ease of doing business for customers, Vedanta Aluminium launched Vedanta Metal Bazaar, an innovative e-commerce platform(Web & App) poised to revolutionize the aluminium buying experience.





Mines

Mining for the Future

○ David Stone
○ Chief Executive
Officer – Coal
Mines, Vedanta
Aluminium



100% Vertical Integration from Mine to Metal

COAL MINES		
	Jamkhani	Kuraloi
MINEABLE RESOURCE (MnT)	120	150
CAPACITY (MTPA)	3	8
	Ghogharpalli	Radhikapur
MINEABLE RESOURCE (MnT)	600	130
CAPACITY (MTPA)	20	6
	Barra*	Total
MINEABLE RESOURCE (MnT)	TBC	~950
CAPACITY (MTPA)	6	~40

BAUXITE MINES		
	Sijimali	OMC/Others
MINEABLE RESOURCE (MnT)	300	70
CAPACITY (MTPA)	12	3-6
	Total	
MINEABLE RESOURCE (MnT)	~370	
CAPACITY (MTPA)	15-18	

 Bauxite 18 MnT Volume
Coal 40 MnT Volume

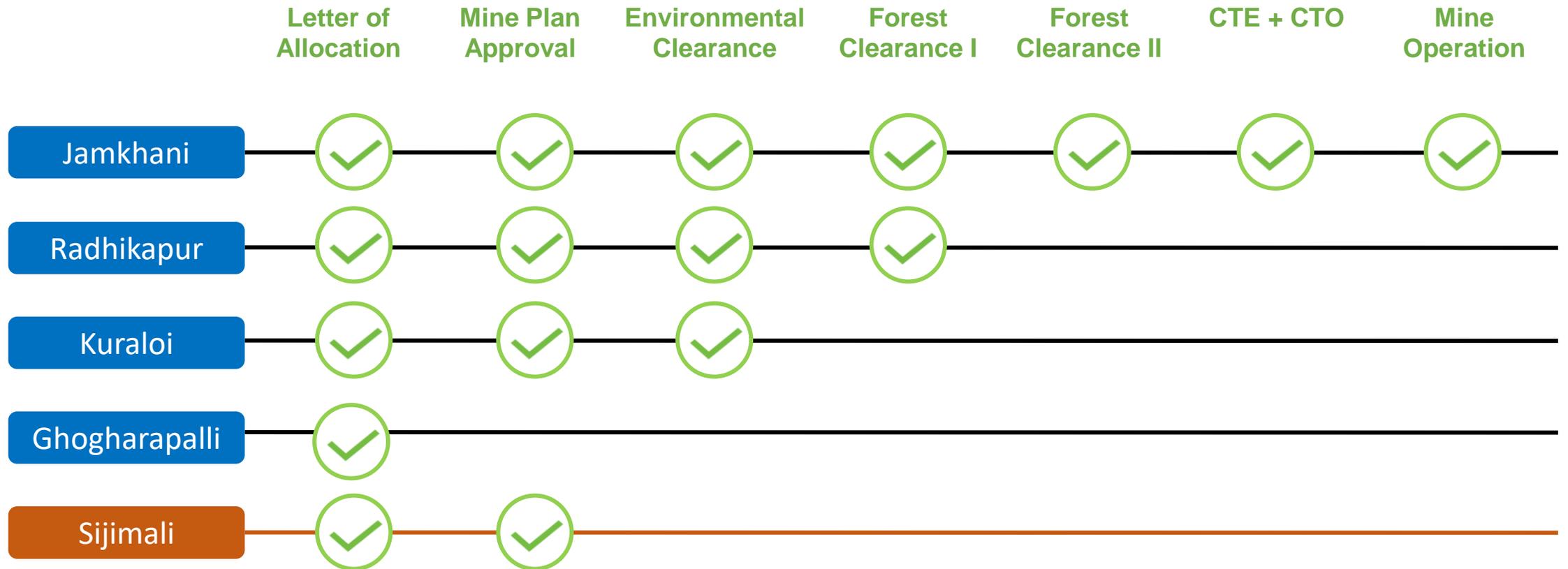


Domestic Raw material security



Extensive resources to support low-cost large-scale mining

Mine Development tracking well through approval processes





Vedanta Lanjigarh

God's Own Factory

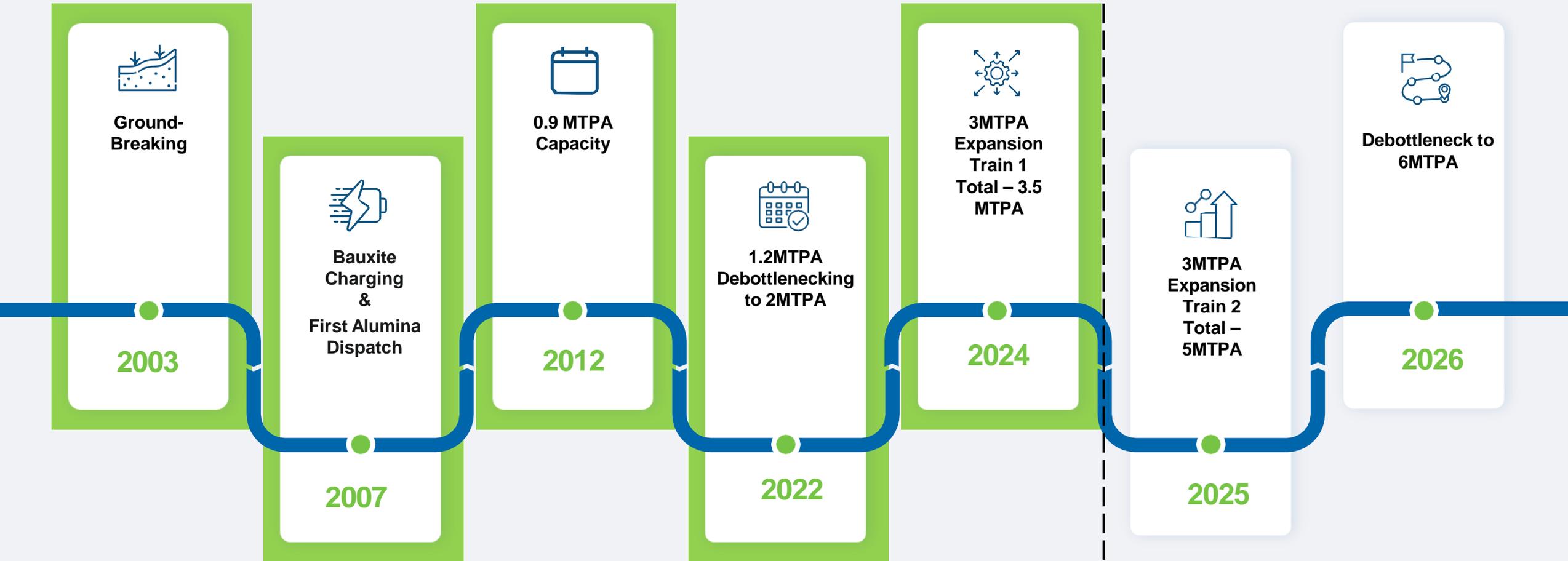


Pranab
Bhattacharyya

Chief Executive Officer,
Vedanta Lanjigarh



Growth Journey of Alumina Refinery



Refinery Technical Overview



Captive Power Plant



Digestion



Precipitation



Calcination

2 MTPA

- Capacity – 3*30 MW (90MW)
- 3 Boilers, 3 Turbines
- Boiler capacity – 287 tph steam
- Major OEM - Wuxi & Hangzhou
- EPC - CMEC

- Capacity – 3870 m3/h
- Trains – 3 (3*1290 m3/h)
- OEM – Alpha levels

- Capacity – 3,000 pgl/h
- Trains – 2 (2*1,500 pgl)
- OEM – Gaudfrin, Tega

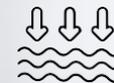
- Capacity – 6,000 TPD
- Trains – 2 (2*3,000 TPD)
- OEM - FLSmidth

Power Plant



Digestion

Precipitation



Calcination

3 MTPA

- Capacity – 2*50MW, 1*30 MW (150MW)
- 3 Boilers, 3 Turbines
- Boiler capacity – 320 tph steam
- Major OEM – Harbin
- EPS – Runh Power

- Capacity – 3,834 m3/h
- Trains – 2 (2*1,917 m3/h)
- OEM - GAMI

- Capacity – 4,140 pgl/h
- Trains – 2 (2*2070 pgl)
- OEM – Gaudfrin, FLSmidth

- Capacity – 9900 TPD
- Trains – 3 (3*3300 TPD)
- OEM - Mets-Outotec



Captive Power Plant



Digestion



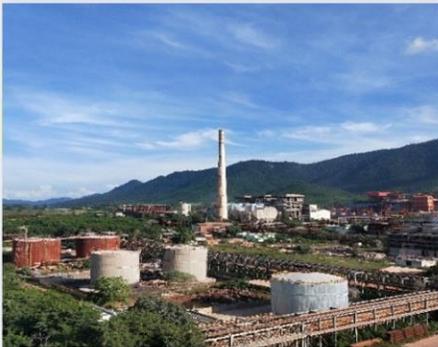
Precipitation



Calcination

Lanjigarh Footprint

Lanjigarh is in the socio – economically backward district of **Kalahandi**



Reaching out to **>90,000 people** across **67 villages** near Lanjigarh



Land area of **~2,800 acres** with a **~28kms** perimeter



Close Proximity to **Mines** and **Smelters**



First Ever fully **automated Red mud filtration in India** with **solid disposal** system



Bharat Aluminium Company (BALCO)

India's Iconic Aluminum
Producer

Rajesh Kumar
Chief Executive Officer,
BALCO



BALCO Journey – Since Inception



Inception of India's 1st iconic Aluminium producer

1965



Properzi (Wire rod) unit commissioned.

1976



51% BALCO disinvested to **Sterlite Ltd**

2001



Commissioning of GAMI Hall Heroult Smelter Technology

2005



First 10kgs alloy ingot production

2014



Installation of PFA-10 kg Ingot for automobile industry

2018



Foundation of Growth project from 570 KTPA to 1000 KTPA

2022

1975

1st Phase of smelter with Soderberg technology



1976

1st export dispatch of "BHARATAL" ingots to JAPAN



2002

Smelter plant capacity tripled from 100 KTPA to 334 KTPA

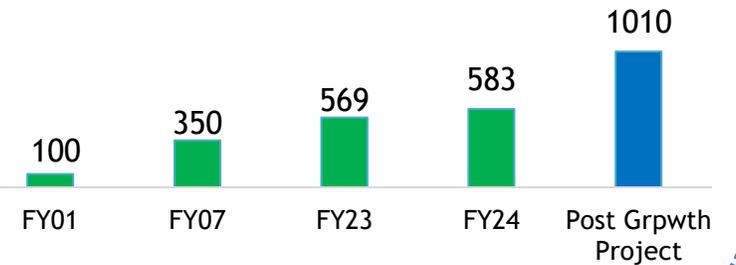


2010

Smelter plant capacity expanded from 334 KTPA to 570 KTPA



Metal Production (KTPA)



BALCO Technical Overview

Potline

- Prebaked Technology
- Current : **320 KA**
- 624 pots

Existing Production:
583 KTPA

Growth Project - Potline

- Prebaked Technology
- Current : **525 KA**
- 304 Pots

Capacity:
435 KTPA

Products/Applications



Rolled Product

Automotive, Insulations,
Bus Bars, Power Projects,
Electrical, Packaging



Alloy Ingot

Automotive (Alloy Wheels,
Cylinder Heads)



Wire Rod & Alloy Wire Rod
Electrical



Ingot

Automotive, Electrical,
Building & Construction,
Re-melting



Sow Ingots

Automotive, Electrical,
Building & Construction,
Re-melting



Billets

Automotive, Building &
Construction, Electrical

Power Plants

POWER PLANT I

Capacity: 540 MW
(4 X 135 MW)

POWER PLANT II

Capacity: 1200 MW
(4 X 300 MW)

RE POWER TIE-UP

Capacity: 505 MW

BALCO Footprint

India's iconic Aluminium Producer for the last 59 years

BALCO is in the industrial district of Korba, Chhattisgarh spread across 978 acres



First in Chattisgarh to induct **LGBTQIA+** in workforce across various functions



State of the art Medical Centres at Korba and Raipur



Post expansion will break into the 1MnT club, will be 6th largest in the World (Ex-China)

Gender Diversity 24%



Impacted 1.5 Lacs families through CSR flagship initiatives (Nayi Kiran, Unnati, Arogya, Nand Ghar)





Vedanta Jharsuguda

World's Largest Smelter



Sunil Gupta

Chief Operating Officer,
Vedanta Aluminium
Chief Executive Officer,
Vedanta Jharsuguda



Jharsuguda Plant Journey



Vedanta's first
Greenfield Project

2005



**Billets and
Wire Rods.**

2009



1.25 MTPA, Smelter 2
(SEZ) commissioned in
Sep'14

2014



Commissioning of **Pot-
line-6.** Aug'20

2020



Capacity expanded to
1.75 MTPA

2022



Capacity expanded to
1.8 MTPA

2024

2008

First Hot Metal -
March'08.
India's largest Captive
Power Plant (9x135MW)
commissioned in Apr'08



2010

4x600MW TPP
Commissioned
in Aug'10



2018

Entry into single
location '**1 Million
Ton' club of global
Aluminium**
producers in Feb'18



2021

1.6 MTPA by
Mar'21

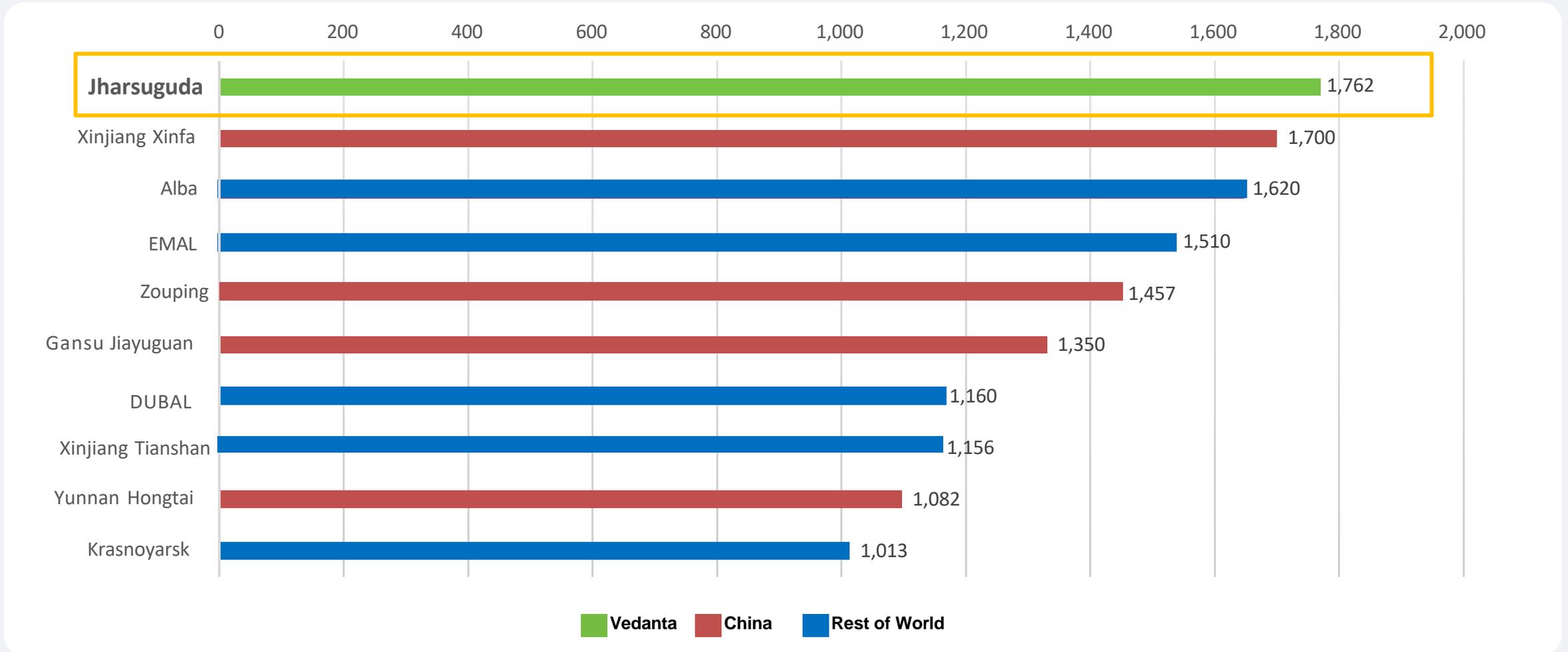


2023

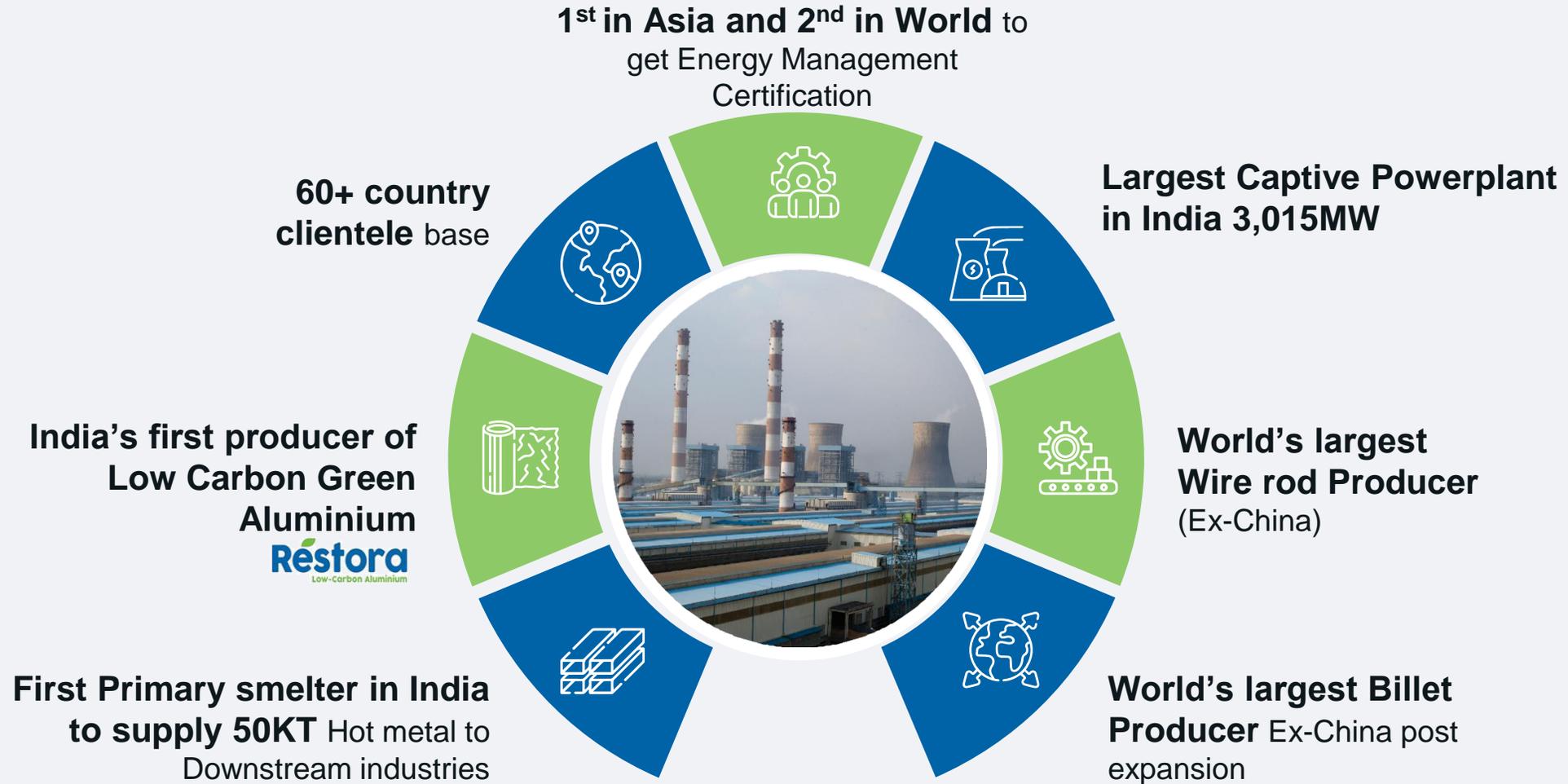
120 KTPA Billet
commissioned in
May'23



Largest Smelter in the World



Jharsuguda Highlights



Location Advantage



Proximity to coal mines and Water resource

- Major Coal beds in Orissa
 - Coal fields are around 50 kms radius
- 24% share of the coal deposits in India
 - 75 bt out of 300 bt
- Water from Hirakud Reservoir.



Proximity to Captive Alumina Source of Lanjigarh Refinery

- 2MTPA increasing to 6MTPA

Well-connected by road, rail, airport & proximity to Ports (400 ~ 700 km)

- Paradip Port – 400 Km
- Haldia Port – 540 Km
- Vizag port – 620 Km [**Captive – VGCB***]
- Kakinada Port – 750 Km
- Gangavaram Port - 670 Km



Power Plants Overview



P-1 – 9 x 135 MW
P-2 – 4 x 600 MW



ISO 9001, 14001, 50001,
55001 & OHSAS 18001



Water source:
Hirakud Reservoir



Coal Source: Mahanadi Coal Fields
Captive mine - Jamkhani



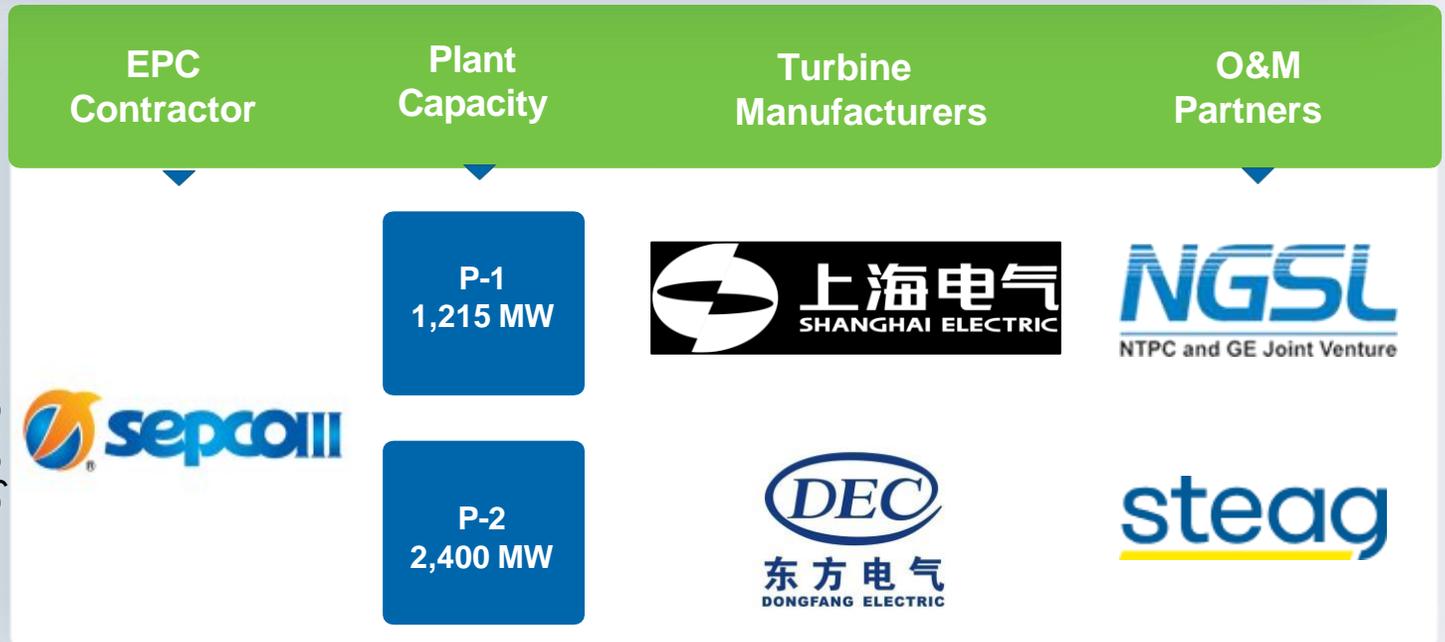
High Concentration Slurry
Disposal



Hybrid ESP with SPM level
< 50 mg/Nm3



3,615 MW



Smelter Overview



Pot Room



Green Anode Plant (GAP)

Smelter 1 (DTA)

- Technology – GAMI-320 Prebake
- No. of Lines – 2
- No. of Pots – **608**
- Pot Amperage – **325 KA**
- Design Capacity – **500 KTPA**
- GAP – 2 Paste Plants (Outotec GMBH, Germany)
- Bake Oven – 4 Bake Furnaces
- Anode Rodding Plant

Smelter 2 (SEZ)

- Technology – GAMI-340 Prebake
- No. of Lines – 4
- No. of Pots – **1322**
- Pot Amperage – **340 KA**
- Design Capacity – **1250 KTPA**
- GAP – 2 Paste Plants (Outotec GMBH, Germany)
- Bake Oven – 6 Bake Furnaces
- Anode Rodding Plant

Key
Partners



SIEMENS

Cast House Overview

DTA	SEZ				
Ingot / Primary Foundry Alloy	Ingot / Primary Foundry Alloy		Hot/Liquid Metal Any Application		Sow Ingots Automotive, Electrical, Building & Construction, Re-melting
Wire Rod	Wire Rod		Restora Low Carbon Aluminium Any Application		Wire Rod Electrical
Billet	Billet		Slab Automotive, Building & Construction, Cold & Hot Rolling		Alloy Ingot Automotive (Alloy Wheels, Cylinder Heads)
Slab Casting /T-Ingot	PFA Cast bar (10 Kg)				Ingot Automotive, Electrical, Building & Construction, Re-melting
Hot Metal	SoW Ingot				

Key Partners



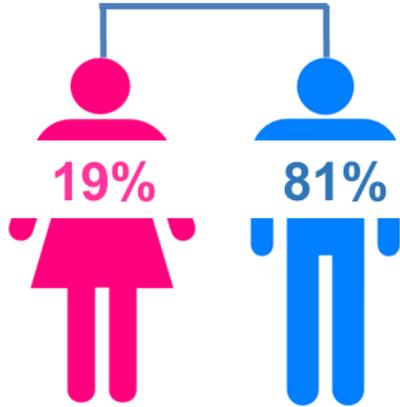






People: Our Biggest Asset

Workforce diversity is **19%** with an aim to increase it to **30%**. Diversity extending to **LGBTQIA+**.

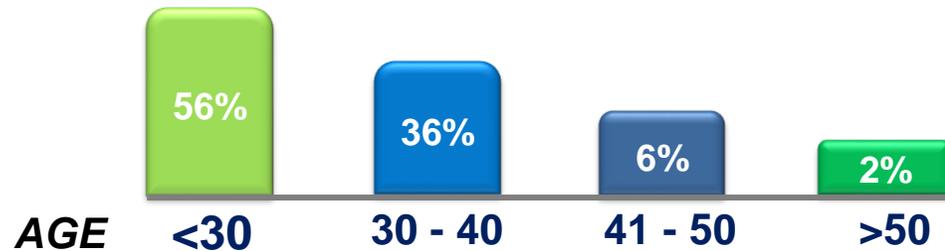


Recognitions for Industry-leading people practices, culture, leadership development initiatives and foremost, the focus on wellbeing



KINCENTRIC Best Employers

Very young workforce by **hiring** only from **Tier-I** institutions. Average age of workforce at **28yrs**



Key Takeaways

Market Outlook

2x

Strong demand outlook for Metal of the Future

Extraordinary growth of India's domestic market – set to double every 5 years

Sustained higher prices due to constrained and higher cost capacity growth

Vedanta's competitive advantage

1st quartile in global cost curve

1st in S&P Global Corporate Sustainability Assessment

30% Increasing RE mix by 2030

100% Vertically integrated supply chain

Major **Capex** program in **execution** – to be fully **operational** within **18 months**, with exclusive **focus** on **Value Added Products**

Value Creation



EBITDA Margin

> \$1,350/T



Volume

> 3.1 MTPA



Exceptional value creation for Investors

