

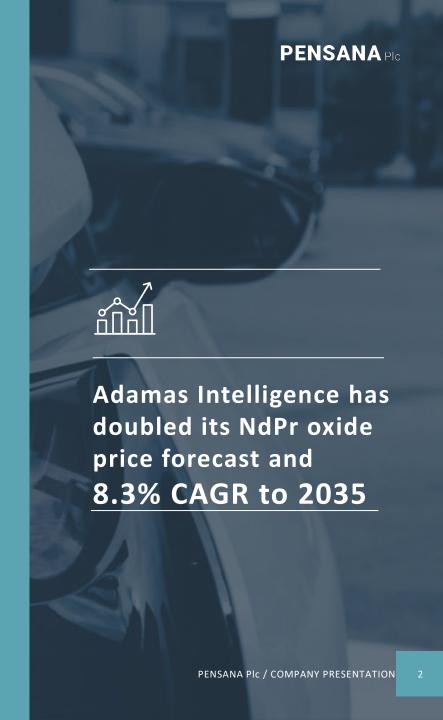
EV AND OFFSHORE WIND WILL DRIVE RARE EARTH DEMAND SEVEN-FOLD BY 2050

NdPr oxide is key to the manufacture of permanent magnets used in Electric Vehicles and Offshore Wind turbines.

Adamas Intelligence warns that post 2030:



"The rapid demand growth of the 2020s will soon be dwarfed by the demand growth of the 2030s."





CHINA SUPPLIES 95% OF WORLD'S RARE EARTH MAGNETS

"China has no obligation to be the rare earth supplier to the world."

Lin Boqiang, Director of the China Center for Energy Economics

War in Ukraine Update May 2022: New Export Control Law will give Beijing control over the sale of RE Magnets to the US and other countries based on security and foreign policy.



CARBON NEUTRAL 2060 PLAN

LYNAS CORPORATION (LYC.ASX) CURRENTLY THE ONLY MAJOR RARE EARTH PRODUCER OUTSIDE CHINA









MARKET CAP US\$



US\$6bn



US\$7bn



NdPr PRODUCTION tonnes per year



IN PRODUCTION

SINCE 2013

5,500 tonnes

6,500 tonnes by 2024



4,500 tonnes by 2024

IN DEVELOPMENT

IN DEVELOPMENT

CAPEX US\$

c. US\$1.5 billion

>US\$2 billion

<US\$500 million



FREEPORT STATUS TO ESTABLISH SALTEND AS INTERNATIONAL PROCESSING HUB

Pensana was part of the team behind the highly successful Treasury approved Humber Freeport bid led by Associated British Ports. The range of benefits is expected to include:

- Business rates relief for five years of operation
- National insurance relief for new employees
- Discounts on land tax and stamp duty
- 130% deduction for main pool assets
- 100% deduction for special pool assets

Awaiting Customs Zone approval

PENSANA

SALTEND HUMBER UK

INDEPENDENT RARE EARTH PROCESSING HUB



PRIVATE WIRE CONNECTION TO THE WORLD'S LARGEST OFFSHORE WIND FARM FOR NdPr METAL PRODUCTION

Hitachi installing 320kV HVDC cable, connecting Dogger Bank, the world's largest offshore wind farm, to Harmony Energy's 200MW battery storage facility. Fully operational 2024.

As Offshore Wind expands, Negative Electricity pricing will become increasingly common in the UK as operators will have to pay to dispatch electricity during periods of high wind and low demand.

Studies underway into establishing at Saltend 3,000 tpa NdPr metal production using electric arc furnaces.



LOW CAPITAL COST STATE-OF-THE-ART MINE

Longonjo is one of the world's largest rare earth deposits with an initial 20 year mine life.

Near surface mining, 1.5 mtpa flotation concentrator, mineral sands type roaster to produce 45,000 tpa of clean, high value mixed rare earths sulphate.

Wood Group plc has designed mine to ICMM guidelines featuring solar, hydroelectric power and ~70% reagent recycling.





GROWING SUPPLY DEFICIT ADAMAS INTELLIGENCE PRICE FORECASTS

SUPPLY / DEMAND IMBALANCE FROM 2023 (NdPr oxide tonnes)
50,000

2035 DEFICIT
15 TIMES
SALTEND
ANNUAL
PRODUCTION







Source: Historical NdPr oxide price as quoted by Shanghai Metals Market as of 28 April 2022. Supply/Demand imbalance and forecast NdPr oxide prices as per Adamas Intelligence Q2 2022 rare earth market outlook report



Automotive OEMS are concerned about *transparency* and *low embedded carbon*



VW's ID.3 range of EVs will consume the equivalent of Saltend's entire production for over a decade.



INDUSTRIAL ROBOT DEMAND

Robots are becoming increasingly popular with rising labour costs, policy support and a strong push for modernisation.

High-performance NdFeB magnets are the key component of industrial robot servo motors.

Forecast CAGR of 22% from 2025



	2020	2021	2022E	2023E	2024E	2025E
China industrial robot production	237,100	336,000	475,900	571,000	685,200	822,300
Global industrial robot production (units)	384,000	522,900	634,500	713,800	856,500	1,027,900
Global industrial robot NdFeB demand (kg/unit)	20	20	20	20	20	20
Global total demand (tonnes)	7,680	10,456	12,690	14,276	17,131	20,557



FINANCIAL SUMMARY ADAMAS NdPr Oxide Forecast Base Case

ANNUAL PRODUCTION	12,500 TREO / 4,500 NdPr oxide			
CAPEX	SALTEND REFINERY	US\$ 195M		
	LONGONJO MRES REFINERY	US\$ 127M		
	LONGONJO CONCENTRATOR	US\$ 123M		
	LONGONJO MINE AND INFRASTRUCTURE	US\$ 49M		
OPEX	US\$ 15 / kg total rare earth oxide			
REVENUE (Average steady state)	US\$ 893 MILLION (Average per annum based on first five years)			
EBITDA (Average steady state)	US\$ 615 MILLION (Average per annum based on first five years)			
NPV8** (UN-LEVERAGED, POST TAX)	US\$ 3.6 BILLION			
IRR	77%			
PAYBACK FROM FIRST PRODUCTION	1.3 YEARS			

WORLD CLASS MANAGEMENT TEAM















PAUL ATHERLEY CHAIRMAN

Mr. Atherley has extensive experience as a senior executive. Previously Executive Director of the investment banking arm of HSBC. He has completed numerous successful acquisitions and financings of resource projects in Europe, China, Australia and Asia.

TIM GEORGE
EXEC DIRECTOR/
CEO

A Minerals Engineer, Mr. George leverages over 30 years of experience in the mining and engineering sectors, with a broad experience in mining project development throughout Sub-Saharan Africa.

ROCKY SMITH

Mr Smith is a highly experienced Chemical Engineer with 35 years' rare earths experience. He is one of the few western mining executives with in-depth knowledge of the rare earth industry and running complex chemical processes. He was Managing Director of MP Materials Mountain Pass rare earth project in the US and was responsible for building the project and it's operational readiness.

ROBERT KAPLAN
FINANCE DIRECTOR

Mr Kaplan is a Chartered Accountant with over 20 years operating experience in the African mining sector. He brings a broad skill set in both the UK and sub-Saharan corporate finance together with experience in mining operations in Angola, South Africa and Tanzania.

JEREMY BEETON
NON-EXEC DIRECTOR

Former Director General of the 2012 London Olympic and Paralympic Games, Principal Vice President of Bechtel, Advisory Board of PWC, and Non-Exec of SSE Plc. Currently also a Nonexecutive Director of John Laing.

RT HON BARONESS NORTHOVER

NON-EXEC DIRECTOR

Baroness Northover was the Prime Minister's Trade Envoy to Angola (2016-2020), Zambia (2017-2020) and Minister in the Department for International Development ("DFID") 2011-15, including serving as Parliamentary Under Secretary and Africa Minister, 2014-15.

STEVE SHARPENON-EXEC DIRECTOR

Mr Sharpe is a highly experienced natural resources financier. He is an Executive Board Member of EIT Raw Materials. Previously, he was Chair of AME Group, Managing Director at Canaccord Genuity, Managing Director at Endeavour Financial and held senior positions at Standard Bank and NM Rothschild.

PENSANA PIC

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MARKET AND TECHNICAL ADVISERS

MARKET INTELLIGENCE

Adamas Intelligence

Market forecasts

Roskill

Market forecasts

SALTEND TECHNICAL

Wood Group

Technical engineering and design

Px Group

Saltend owner operator

Oakdene Hollins

Circular economy

On Line Design

Planning application

SLR consulting

Air quality assessments

EEG

Geotechnical design

Ivy House

Environmental design

LONGONJO TECHNICAL

Wood Group - technical engineering and design

Paradigm Project Management - Longonjo site infrastructure and bulk services technical engineering, design and cost estimates

Auralia Metallurgy - specialist metallurgical and processing laboratory

Nagrom - geochemistry testing and analysis

ALS / Eriez - pilot plant test work

HCV Africa - ESIA, EMP, RAP and hydrology

ANSTO - Australia nuclear science and technology association

Grupo Simples - Longonjo ESIA

Snowden - Mine plan schedule and pit optimisation

SRK - Mineral resource estimates & geotechnical