Powering the transition to a cleaner future

E-Tech Resources are exploring for the rare earth elements necessary to drive the global transition to clean energy

EUREKA REE Project, Namibia

CORPORATE PRESENTATION - SUMMARY
March 2022

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Neodymium (Nd) is used to make high strength & high performance neodymium magnets.

Smart solutions to clean energy sourcing, and efficient power transmission, will be key to our future interconnectivity.

High-performance materials are essential for reliable e-mobility and renewable energy generation.

Nd is a key rare earth element (along with Praseodymium) to the high-growth, hi-tech markets that support a circular economy.

High-strength Neodymium Magnets (NdFeb) are used in:
- Consumer Electronics
- Speakers
- Conventional Vehicles
- Electric Vehicles (HEV, PHEV, EV)
- Other E Mobility
- Wind Turbines
- Air Conditioning

**INTRODUCTION**

**WHY NEODYMIUM?**
The REE magnet materials Nd and Pr have experienced more than **150% price increase** over the last 2 years.

1. Anticipated deficit of REE magnet supply
2. Fear for deficit of REE magnet material supply
3. Monopolistic & opaque supply from China
4. High dependency on import from China
5. Increasing domestic demand in China
6. Complex and easily disruptable supply chains
7. Underinvestment in ex-China value chains
8. Generally high ESG production footprint in China

**Price Increase**
**2030 Market Needs.**

**NdFeB MAGNETS & APPLICATIONS**

**Consumer Electronics**
- Speakers
- Conventional Vehicles
- HEV, PHEV, EV
- Other E Mobility
- Other
- Wind Turbines
- Air Conditioning

*Other* includes MRI, elevator motor, magnetic separator, robotics and industrial applications.

- Forecast

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**Projected demand of NdFeB for EV & Wind Turbines alone**

- **2030**
  - 120,000 T/Y

**NdPr Oxide**
- @ 0.5kg NdPr Oxide / 1kg NdFeB metal

**NdPr Oxide equals**
- 60,000 T/Y NdFeB

**TREO**
- @ 20% NdPr Oxide

**TREO equals**
- 300,000 T/Y NdFeB

**Cracking Plants Units**
- @ 3000 t/y TREO, as in development by SRC, Canada

**NdFeB – High-strength Neodymium Magnets**
- **EV** – Electric Vehicle
- **BEV** – Battery Electric Vehicle
- **PHEV** – Plug-in Hybrid Electric Vehicle
- **NdPr** – Neodymium Praseodymium
- **TREO** – Total Rare Earth Oxide
- **PMSG** – Permanent Magnet Synchronous Generator

**2030 Market Needs.**

- 100x

**6,000**
- PMSG Wind Turbine Units
  - @ St NdPr Oxide / 16 MW PMSG unit

**30M**
- BEVs
  - @ 1kg NdPr Oxide / 131 kW BEV motor

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https://www.arultd.com/products/supply-and-demand.html#images

TSXV: REE | FSE: K2i | MARCH 2022
**NdPr OXIDE**

**2030 Market Imbalance.**

**GLOBAL DEFICIT 50,000 T**
NdFeB PM material by 2030

**EQUALS 25,000 T**
NdPr Oxide (from new mining capacity)

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**Widening Gap Between NdPr Oxide Supply and Demand**

* Supply = Production + Inventories

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**Rare earth oxide demand by element (volume & value), 2030**

- **Volume**
  - Cerium: 2%  
  - Lanthanum: 9%  
  - Neodymium: 38%  
  - Praseodymium: 17%  
  - Dysprosium: 34%  
  - Terbium: 0%

- **Value**
  - Cerium: 2%  
  - Lanthanum: 9%  
  - Neodymium: 50%  
  - Praseodymium: 17%  
  - Dysprosium: 34%  
  - Terbium: 0%

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**Natural, Geological TREO supply basket entails up to**

- **25%** of Nd and Pr Origin

**Global Demand in 2030**

- **>35%** of TREO demand basket to be from Nd & Pr sources by 2030

**TREO Value Basket**

- **>50%** will stem from Nd and Pr compounds (due to the demand for NdFeB PM for electrification & de-carbonization)

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**A proportional demand, with expected supply deficit & geopolitical concerns = high price = high value of NdPr**

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**Source:** Argus Media

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**Source:** Adamas Intelligence

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**TSXV: REE | FSE: K2i | MARCH 2022**
Board & Management Team

**CEO**

Elbert Lois

20+ years of management & consulting experience in developing sustainable supply and off-taking strategies. He has extensive experience in securing supply strategies for firms such as BMW, Volkswagen, Bosch, BASF and others.

**CFO**

Rob Randall

A contract CFO for a number of public companies including Torrent Capital, Antler Gold and Sona Nanotech. Rob has extensive financial experience working within many African countries overseeing all financial aspects of resource exploration and production activities.

**CEOs**

- Dan Whittaker
- Ken Marshall
- Edward Loye

**CFOs**

- Rob Randall
- John Philpott
- Chris Drysdale
One of the simplest rare earth element (REE) projects globally

What are we currently targeting at Eureka?

TREO, including NdPr Oxide
(TREO= Total Rare Earths Oxide)
(Nd=Neodymium, Pr=Praseodymium)

Purified NdPr Oxide
NdPr Metal
NdFeB Permanent Magnets

Collaborate on process development for Rare Earth Cracking and Separation
Read more
Easy Physical Processability

**Simple Mineralogy**
- High grade TREO, close-to-surface mineralization
- Hosted in numerous broad carbonate dyke swarms containing coarse grained monazite mineralization
- In-situ dyke grade range 1-16% TREO
- Maiden Inferred resource (NI43-101, Aug 2021)
- Additional exploration potential of up to 1.5 Mt for 1st combined drilling campaign, ended in Sep 2021 (source: SRK – CPR)

**Simple Operations**
- Targeted mechanized mining of dykes from open pits
- Pure monazite beneficiation by low-cost physical methods
- No hazardous chemicals or complicated beneficiation plant
- Off-the-shelf beneficiation equipment only
- Known technology for further processing of monazite concentrate

**Easy Logistical Management**
- Located in flat topography adjacent to the major highway
- Direct road and rail connections to Namibia’s largest commercial port
- Meets international shipping requirements due to low radioactive content
- Access to power and water
- Experienced Board and Management, in-country and with access to offtake partners
**PR HIGHLIGHTS**

- **Nov 10, 2021** - Reporting High-Grade Diamond Drill Intercepts Up To 100 Meters Below Current Resource, Including 6.5% TREO Over 4 Meters
- **Dec 1, 2021** - Received Further High-Grade Assays And Expands The Mineralized Footprint
- **Feb 10, 2022** - Reports Diamond Drill Intercepts of REE Bearing Dykes Beyond the Current Resource at Its Eureka Project in Namibia
- **Mar 17, 2022** - Announces Final Assay Results of Phase 1 Diamond Drilling Programme and start of MRE Update
Significant intersections include:
- 9.4m @ 1.3% Total Rare Earth Oxide ("TREO") (ED008),
- 4.8m @ 1.2% TREO (ED009),
- 1m @ 13.4% TREO (ED017),
- 3.5m @ 4% TREO (ED011),
- 4.2m @ 1.2% TREO (ED017) and
- 1.9m @ 1.8% TREO (ED019).

PRESS RELEASE
Feb 10, 2022: Reports Diamond Drill Intercepts of REE Bearing Dykes Beyond the Current Resource at Its Eureka Project in Namibia
Milestone Planning

E-Tech Resources planned activities

2021
Q3 2021
Drilling Program
Campaign 1

2022
Q4 2021 - Q1 2022
Drilling Program
Campaign 2
Q2 2022
Mineralogical
Test work &
MRE Update

Onwards
PEA (preliminary economic assessment)
ESG Protocol

COMMITTED TO HIGHEST STANDARDS OF ENVIRONMENTAL, SOCIAL & CORPORATE GOVERNANCE

• EIA conducted by ASEC Namibia and a state approved
• Follow installed Corporate Codes, Policies, Charts, Guidelines
• Own Sustainability Advisory Board with ESG experts installed
• Adhere to relevant United Nations SDG
• Adhere to Project Readiness Standard (by project due diligence)
• Work with European REIA, as member of ESG Board
• Contribute to Lifecycle analysis (LCA)
• Ongoing environmental and social impact assessment

Health & Safety
- installing well defined HSSE policies and measures
- guaranteeing low emittance of radioactivity
- securing localised dust management measures

Environment Care
- auditing of Environmental & Social Impact analysis & measures
- performing hydrological test work
- development of Life Cycle Inventory and Assessment

Efficient Consumption
- guaranteeing responsible use of energy and water
- minimising consumption of chemicals
- providing potable & farming water as valuable side-products

Jobs & Education
- offering sustainable work contracts for the national population
- conducting training programmes and educational support
- sponsoring personal development programmes

Inclusiveness & Fairness
- enabling social inclusiveness
- offering fair work standards and compensation
- securing sustainable project and living standards

Community Support
- performing social studies and relief measures
- supporting of regional community and social services
- delivering regional industrial development potential

Best Practice & Transparency
- installing responsible company codes & policies
- securing high-standard ESC principles
- developing towards certification for sustainable practices

Value Chain Management
- selecting sustainable cooperation partners
- advocating stakeholder involvement
- securing long term business growth and value-add
How is the project funded?

By 100% Equity Capital

How many shares privately owned and publicly floated?

~ 83mil privately owned shares, of which ~ 20mil are floated on the stock exchange

Where are you listed?

We are dual listed: primarily on the TSX-V & co-listed on the Frankfurt Stock Exchange

What is its current cash liquidity?

$5mil of liquidity at listing (21 October 2021), of which still $2.0m available as current cash, at the end of the ongoing 2nd drilling campaign
Value Sustainability

FAVOURABLE
GEOGRAPHY, INFRASTRUCTURE AND RESOURCE CHARACTERISTICS
- Close to road, railroad and coast; solar power potential
- Attractive low depth potential with enriched TREO grades
- 1st marketable product >60% TREO in mineral conc.
- Pure monazite concentrate with 17% NdPr content

EXCELLENT
TECHNICAL PROCESSING CONDITIONS AND PRODUCTION STANDARDS
- Simple beneficiation and proven track record for refining
- Active research into >65% recovery and process efficiency
- High HSSE standards and lower range thorium content
- Favourable ore distribution and mineralogical composition

SUSTAINABLE
PROJECT CONDITIONS ARE ACTIVELY MANAGED
- Namibia has mining favourable jurisdiction
- Striving for social inclusion in Erongo mining region
- No major negative socio-environmental impact expected
- Following responsible sourcing initiatives

HIGHLY COMPETITIVE
MARKET POSITIONING & HIGH GROWTH MARKET DEVELOPMENT
- Cost competitiveness with high >60% TREO concentrate
- Attractively priced TREO contained mineral concentrate
- High growth CleanTech market with av. +6% y-o-y NdPr demand
- Geo-political risk-diversification in greater focus (ex-China)
THANK YOU

SEND US YOUR QUESTIONS:
CONTACT@ETECH-RESOURCES.COM