

tharisa

enriching lives through innovating
the resources company of the future

The next generation mine to megawatt resource group

THARISA GROUP

January 2025

DISCOVER
DEVELOP
DELIVER
DIVERSIFY

INTEGRATED MINE TO MEGAWATT ECOSYSTEM

Listed resources Group that provides vertical integration to deliver from extraction to critical metals' applications

Focus on efficiency, sustainability and innovation

Operations located in key regions

Providing leading economies access to ethically sourced critical metals



SECURITY OF CRITICAL RAW MATERIAL SUPPLY

SHALLOW MULTIGENERATIONAL MINERALS ASSETS

– THARISA MINERALS – FLAGSHIP CO PRODUCT OPEN PIT MINE

- Mining right area of 5 475 ha
- Mines and processes MG reef from Bushveld Complex, South Africa
- Resource of 841. Mt containing 39.1 Moz PGMs and 165.6 Mt chrome
- Reserves of 74.5 Mt containing 3.6 Moz PGMs and 13.8 Mt chrome
- Annual PGM concentrate production of 145.1 koz
- Annual chrome concentrate production of 1.7 Mt
- Progressing underground studies to access +60 year life
- Secured renewable energy solutions

– KARO PLATINUM – LONG TERM STRATEGIC DEVELOPMENT ASSET

- Mining right area of 23 903 ha in the Great Dyke of Zimbabwe
- Resource of 178.2 Mt containing 11.3 Moz PGMs
- Reserves of 24.8 Mt containing 2.2 Moz PGMs
- Annual production will be 200 koz PGMs with significant base metal credits – 2.2 ktpa copper and 2.5 ktpa nickel
- Construction has commenced and major mechanicals have been fabricated
- Project completion of 18 months from financial close



TECHNOLOGY AND INNOVATION

UNIQUE DOWNSTREAM TECHNOLOGY DEVELOPMENT

- **ARXO METALS BENEFICIATION SITE**
 - Dedicated commercial pyrometallurgical site – producing novel alloys
 - Routine production of PGM alloys and first production of novel chrome alloy – technical viability proven
 - Unique PGM refining process has been proven to produce precious metals
- **ARXO METALS TECHNOLOGY DEVELOPMENT CENTRE**
 - Facility based at university premises to conduct laboratory and pilot scale test work – downstream beneficiation focus
 - Access to latest research and theoretical developments
- **ARXO METALS RENEWABLE ENERGY CENTRE**
 - Focus on energy generation and storage solutions using chromium
 - Different renewable energy technologies are being demonstrated
 - Novel electrolyte process developed and in demonstration scale production



ENERGY SOLUTIONS

THE FUTURE OF ENERGY STORAGE

– REDOX ONE

- Long duration energy storage solution – iron chromium redox flow batteries
- Safe, cost effective and scalable solution – high temperature stable
- Proprietary electrolyte manufacturing processes direct from ores – estimated cost 80% lower than vanadium electrolytes
- First demonstration LDES units are being commissioned
- Upscaled units being tested on proprietary electrolyte
- Complete battery solution including rebalancing to be tested in live operational environment
- Dedicated skilled resource based to accelerate commercialisation



SUSTAINABILITY AT THE CORE

COMMITTED TO ESG

– JOB CREATION

- 4 879 Group employees and contractors
- Stable work environment in challenging sector
- Five year wage agreement concluded

– EDUCATION AND WELLNESS

- Learnerships, bursaries, study assistance, internships and skills and enterprise development training
- Thusanang (“helping each other”) wellness programme

– ENVIRONMENT

- Planned 30% reduction in carbon footprint by 2030
- 15 year PPA for wheeling of renewable energy
- Onsite solar power generation project PPA progressing
- Community agricultural project

– GOVERNANCE

- Highest standards of corporate governance
- Promotion of ethical practices across the Group



PROFITABLE AND SUSTAINABLE GROWTH

SOLID TRACK RECORD TO PROVIDE LONG TERM VALUE PLAY

– CRITICAL COMMODITIES

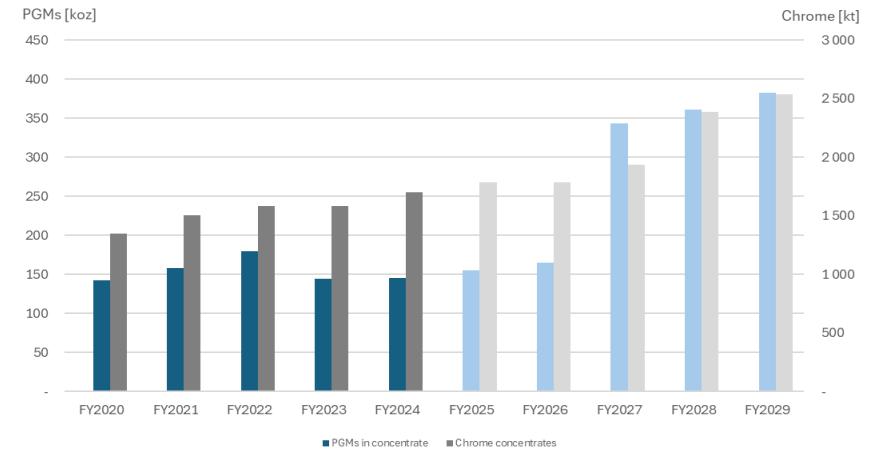
- +15 year track record of co-production of minerals critical to sustainable future with operational flexibility
- Output of PGMs set to double with development of Karo Platinum
- Tharisa is a major supplier of chrome to China and Indonesia, vital to stainless steel production

– DIVERSIFICATION, BENEFICIATION AND ENERGY TRANSITION

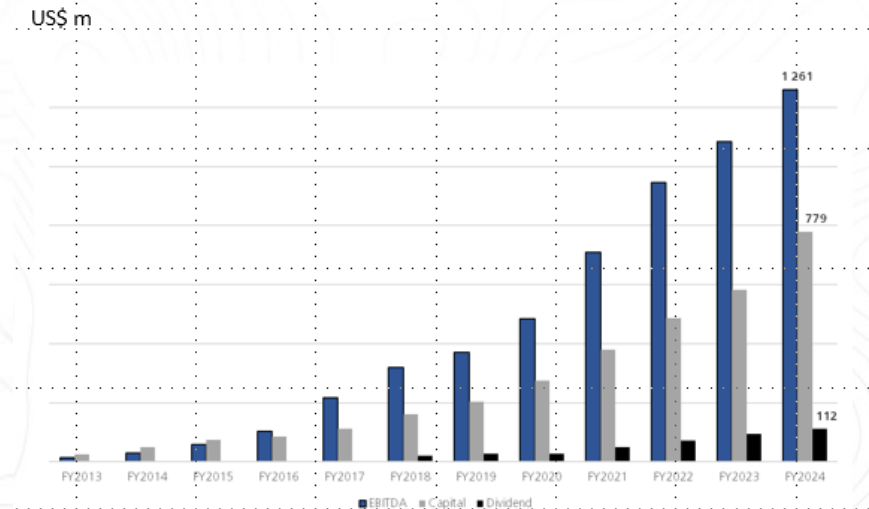
- Maximising value of commodities using innovation and technology
- Commercial downstream plans well underway with technical viability proven
- Critical long duration energy storage solution

– DELIVERING VALUE FOR STAKEHOLDERS

- Strict capital discipline policy that balances allocation to capital for sustaining operations, growth projects and returning value to shareholders



CUMULATIVE PERFORMANCE



THARISA IS AN END TO END CRITICAL METALS AND ENERGY SOLUTION PROVIDER INNOVATING THE RESOURCES COMPANY OF THE FUTURE



16 years

operations

11 years

cash generative

10 years

profitable

US\$1.3 bn

EBITDA generated

~US\$112 m

returned to
shareholders

~US\$780 m

capital invested

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