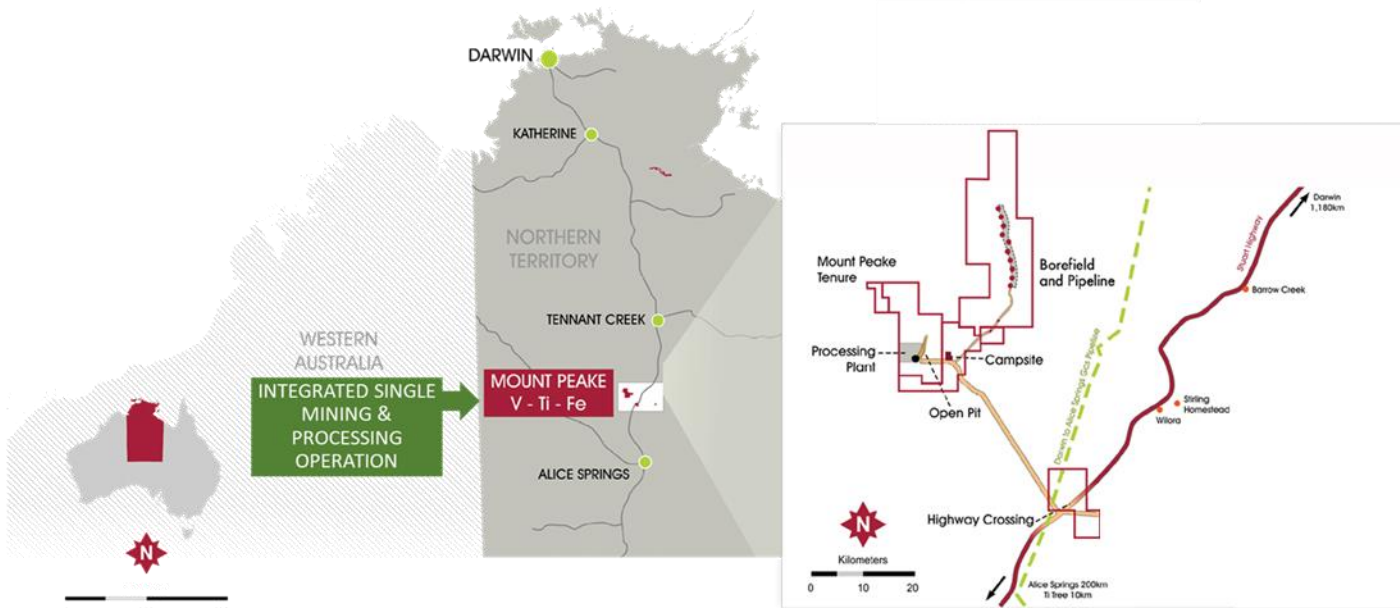







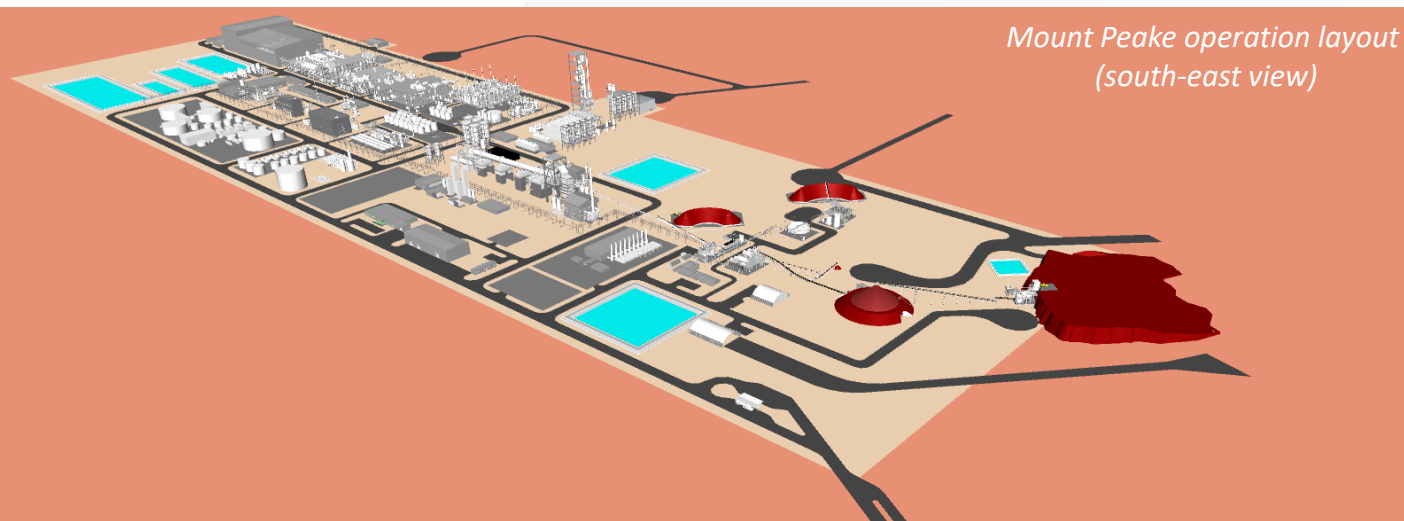
BUILDING A GLOBAL STRATEGIC METALS COMPANY

TNG is an Australian resource and mineral processing technology company progressing towards development of its 100% owned world-class Mount Peake Vanadium-Titanium-Iron Project in the Northern Territory, Australia



MOUNT PEAKE PROJECT HIGHLIGHTS

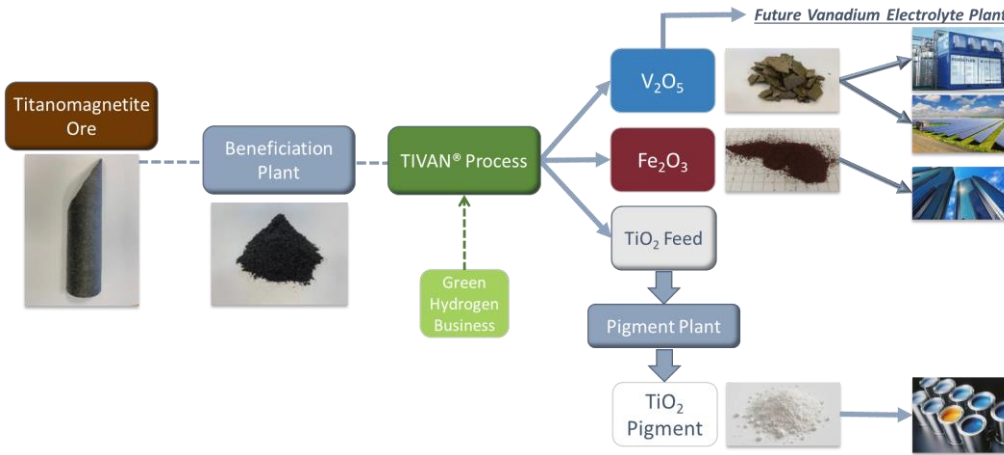
-  Advanced stage of engineering and approvals ahead of a Final Investment Decision
-  Major Project Status awarded by the Australian Federal and the Northern Territory Governments
-  Consolidated and vertically integrated mining and processing operation
-  Innovative TIVAN® technology enabling production of three high-purity products – Vanadium Pentoxide, Titanium Dioxide and Iron Oxide
-  Large flat-lying, shallow vanadium-titanium deposits in Australia
-  Mining licences and most regulatory approvals/permits in place
-  Off-take agreements for 100% of the products
-  Partnerships with Tier 1 development companies



Mount Peake operation layout (south-east view)

INNOVATIVE TIVAN® PROCESSING TECHNOLOGY 100% OWNED BY TNG

TIVAN® is a patented treatment process designed by TNG. This process is unlike other existing metallurgical treatment processes in the global market for this type of ore body. By utilising the TIVAN® Process, TNG will be able to extract three high-value strategic minerals from the magnetite concentrate to produce high-purity products – **titanium dioxide pigment, vanadium pentoxide, vanadium electrolyte and iron oxide** – for export from Darwin.



Vanadium and Titanium have been identified by the Australian Government as critical minerals required to make advanced technologies that will support the global push for decarbonisation

TNG ENERGY
Environmentally Sustainable Resources

- TNG Energy is TNG’s 100% owned subsidiary focused on development of green energy opportunities
- TNG Energy is actively progressing green hydrogen and VRFB business opportunities
- TNG is developing a VRFB business to capitalise on its planned production of high-quality vanadium pentoxide and produce vanadium electrolyte
- TNG is a member of Vanitec, the Vanadium International Technical Committee.

VANADIUM REDOX FLOW BATTERIES - VRFB

Reusability: 100% of the vanadium in vanadium electrolyte is re-usable upon decommissioning of a VRFB can be fully redeployed into another VRFB or converted into vanadium oxides for use in other applications, such as steel alloys.

Carbon savings: A VRFB produces less cradle-to-grave CO2 emissions than other technologies, with savings ranging from 27 to 37%, when compared to multiple lithium ion technologies.

Low carbon footprint: When coupled to renewable energy technologies, the carbon footprint of a VRFB is much smaller than a typical lithium-ion battery system.

Recyclability: The recycling and conversion of liquid electrolyte costs a fraction of the vanadium's market value which guarantees that the chemistry in the VRFB will be recycled as opposed to being discarded.

Long life: VRFB systems have a long service life, when compared to lithium ion technologies, with over 20,000 charge/discharge cycles and an operational life that can exceed 20 years.

VRFBs: A true circular economy technology

The Vanadium Redox Flow Battery (VRFB) is a sustainable energy storage battery that uses a vanadium electrolyte liquid solution to store and release large amounts of energy over long periods of time.

HySustain™ DARWIN PROJECT



- TNG and its joint venture partner, AGV Energy are progressing the HySustain Darwin Project, a green hydrogen production project being planned for Darwin in the Northern Territory.
- The HySustain Darwin Project is a large-scale green hydrogen production that will utilise the HySustain™ technology solution developed by AGV and its global development partners.
- HySustain produces green hydrogen using the electrolysis of demineralised water and 100% renewable energy.

