

Kalgoorlie Rare Earths Processing Facility Project FAQs

What are Rare Earths and why are they important?

Rare Earths are a group of 15 elements in the periodic table known as the Lanthanide series. Rare Earths are used in the manufacture of many things we use every day – from smart phones to cars, electrical appliances, and green technologies such as hybrid and electric vehicles and wind turbines.



Lynas' Rare Earth products

Who is Lynas Rare Earths?

Headquartered in Perth, WA, Lynas Rare Earths Limited (Lynas) is an Australian company listed on the ASX. Lynas has a long-standing commitment to the Goldfields region with the Mt Weld mine, near Laverton, having been in production since 2011.

The Lynas Mt Weld mine in Western Australia is acknowledged as one of the world's premier rare earths deposits. Lynas also operates the world's largest single rare earths processing plant in Malaysia where it produces high-quality separated rare earth materials for export to manufacturing markets in Asia, Europe and the United States.

Lynas is the only scale producer of separated Rare Earths outside of China, providing an important alternative for rest of world manufacturers in high technology markets, including green technology.

Lynas was purpose-designed as an ethical and environmentally responsible producer and is certified under international standards. This includes being assessed by 3rd parties for performance on environment, labour and human rights, ethics and sustainable procurement.



What are Lynas' plans for Kalgoorlie?

Lynas is excited to be building a new Rare Earths Processing Facility in Kalgoorlie to process the Rare Earth concentrate from the Mt Weld mine. This is a foundation project for the Lynas 2025 growth vision and material produced in Kalgoorlie will be further processed at the Lynas Malaysia advanced materials plant in Gebeng, Malaysia, or at the proposed Rare Earths separation facility in the United States.



Artist Impression of Kalgoorlie Rare Earth Processing Facility

Project Key Figures:

1. **\$500m project** including associated upgrades at the Lynas Malaysia plant.
2. **Approx. 290 positions expected to be created during construction** (including direct workforce on the project).
3. **\$204 million in output** expected to be generated during construction over 2 years.
4. **Up to 128 new jobs created** as a result of the investment, bringing Lynas' Goldfields workforce to over 200 people.
5. **Increase of almost 400 direct and indirect positions** expected in the Goldfields-Esperance region (including the direct Lynas employment).
6. **Approx. \$413 million annual increase in Goldfields-Esperance regional output** expected once the processing facility is operational, approximately \$200 million of which will be direct output of the project.

Why did Lynas choose Kalgoorlie?

The site for the Facility, Lot 500 Great Eastern Highway, had been identified by the WA Government and the City of Kalgoorlie-Boulder as a potential site for critical minerals processing. Lynas' proposal to construct a Rare Earths Processing Facility on the site has received strong support from local, state and federal governments.

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Kalgoorlie-Boulder is en route from Lynas' Mt Weld mine to the Fremantle port and offers attractive attributes including:

- a skilled residential workforce in a very liveable community
- the availability of recycled water from the City's water treatment facility
- the availability of industrial land, gas, power, chemicals and transport options
- strong local METS (Mining, Engineering, Technical Services) support, and
- established education and training institutions (TAFE and Curtin University's WA School of Mines).

Opportunities for local people & businesses

Lynas is committed to a residential operational workforce and we welcomed the first Kalgoorlie-based employees to the team in 2021. We continue to advertise Kalgoorlie-based positions as they become available.

We are focused on supporting local Goldfields, WA and Australian businesses. To date, Lynas has awarded a number of contracts to local Goldfields and WA businesses including Kalgoorlie-based Versatile Plant Hire for earth works and 48 steel tanks fabricated by Perth-based Polaris Engineering at a contract value of \$17.5m.

How is the project progressing?

Lynas provides regular updates on the project through our website and the Lynas WA Facebook page. We have held a public information forum and two pop-up community Information Points in Kalgoorlie. We also participate in presentations to a wide range of community and business forums, local media interviews, and local events, careers fairs and meetings that provide opportunities to share information, seek feedback and respond to questions from the community.

In October 2021, the WA EPA recommended the Lynas Proposal for environmental approval. This followed the March 2021 WA EPA approval of minor and preliminary works which has seen an access road, site office and pads suitable for the delivery of the kiln and steel tanks established on site.

Lynas signed a Water Agreement with the City of Kalgoorlie-Boulder in August 2021 for the City to supply treated recycled water to the Facility. As well as providing reliable and cost-effective supply, recycling a precious commodity like water is in line with Lynas' sustainability approach.

Did you know?

1. A single **smartphone contains 8 different Rare Earth materials.**
2. Rare Earth materials are known as the "**vitamins of modern industry**" because of their special properties which help to improve technologies.
3. Neodymium (Nd) is the **strongest known magnetic substance.**
4. Many **MRI machines use Neodymium (Nd) magnets**
5. **Rare Earths make cars greener** – Cerium (Ce) is used in catalytic converters to reduce exhaust gas pollution.

How will Lynas manage the low level radioactivity of Mt Weld ore?

Radiation occurs naturally in the environment and surrounds us every day. Mt Weld ore contains very low level naturally occurring radioactive material (NORM). This remains in the iron phosphate by-product after the rare earths are extracted. The concentrate and iron phosphate are non-hazardous, not dangerous goods and not classified as radioactive for transport purposes.

The radiation level of the iron phosphate by-product will be similar to that of the Mt Weld concentrate, ore and tailings, which are all safely managed in accordance with approved Radiation Management Plans. In WA, this is regulated by the Department of Mines, Industry Regulation and Safety (DMIRS) and the Radiological Council of Western Australia.

The proposal recommended for approval by the WA EPA in October 2021 sees the iron phosphate by-product temporarily stored on site and directed to the already approved mine waste areas at the Mt Weld mine site for permanent storage.

More information

Updates on the Kalgoorlie Rare Earths Processing Facility project are available on our website at: www.lynascorp.com/projects and on the Lynas Western Australia Facebook page (@LynasWA).