

Queensland's rich oil shale resources could produce enough fuel to fill every family car in Australia once a week, every week for the next 70 years...

About QER

Australia is fast running out of its own oil. Yet development of Queensland's rich oil shale resources could produce enough fuel to fill every family car in Australia once a week, every week for the next 70 years. Several of Queensland's largest oil shale resources, containing about 16 billion barrels of oil, are held by QER, an Australian company. In 2010, the Queensland Government gave approval for QER to produce high quality aviation and transport fuels from oil shale at a demonstration plant near Gladstone.

QER's Vision

QER's vision is to help secure Australia's energy future.

QER's Mission

QER's mission is to build and operate a safe, economically viable and sustainable shale to liquids industry in Queensland.

QER Pty Ltd
Level 8, 200 Mary Street
Brisbane Qld 4000 Australia
GPO Box 5214
Brisbane Qld 4001 Australia
Phone +61 7 3222 0600
Fax +61 7 3222 0611
www.qer.com.au

The facts

Technology demonstration plant

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A new technology for Australia

QER's New Fuels Development Centre comprises:

- an oil shale mine
- a small-scale technology demonstration plant for oil shale processing and
- a Visitor Centre open to the public seven days a week.

The technology demonstration plant features the Paraho II™ vertical retort for extracting oil from oil shale and comprises the elements shown in the accompanying diagram.



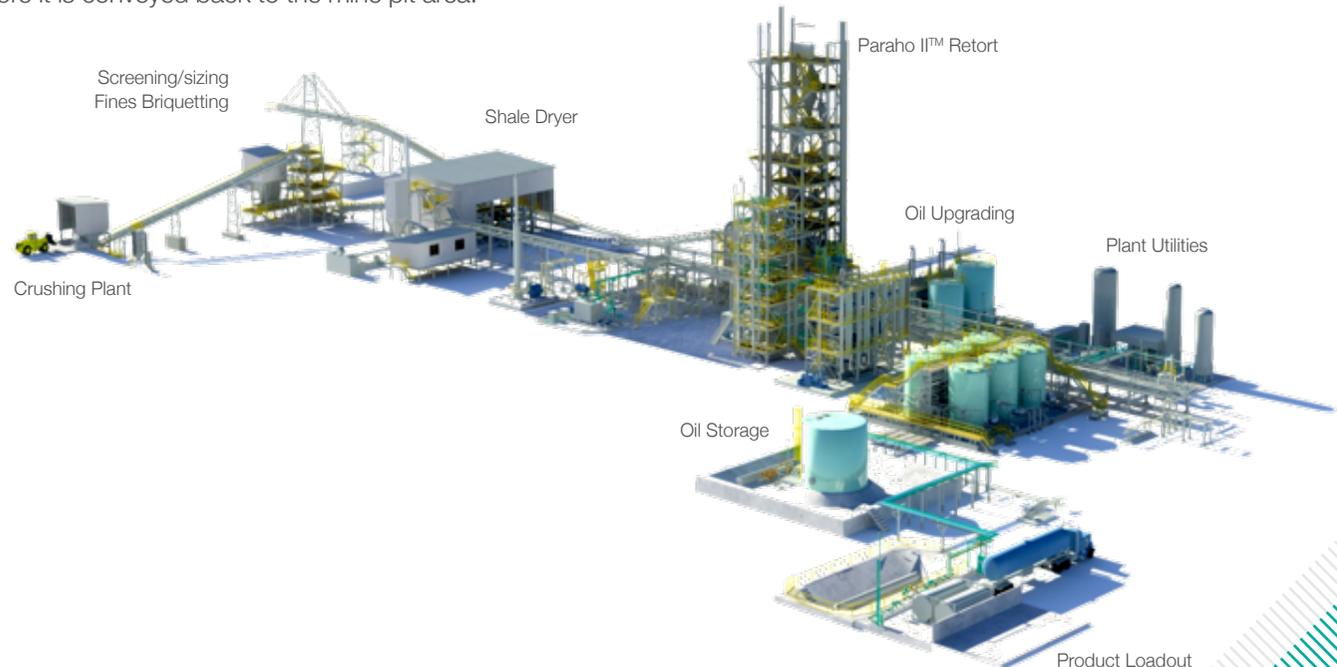
The technology demonstration plant aims to prove that the Paraho II™ technology for processing oil shale is safe, reliable and efficient and deserves to be supported...

How the Paraho™ retort works

In the retort, crushed oil shale passes gradually through a series of temperature zones. The oil shale moves under gravity and takes approximately six hours to travel from the top of the retort to the bottom.

The key zone in the retort is where the oil shale is heated to about 500°C to extract the kerogen contained in the shale as a vapour of oil droplets.

The retort is a completely sealed vessel and the temperature of the shale when it exits the bottom of the retort is about 190°C. (This is about the temperature you bake a cake at in your oven at home). The processed oil shale is moistened to further cool it to about 70°C before it is conveyed back to the mine pit area.



Creating new fuels for Australia

The oil up-grading unit produces ultra low sulphur diesel, jet fuel, low sulphur fuel oil and other products. We are able to store up to 1,300 barrels (206,000 litres) of products in different holding tanks. Fuels will be transported in small containers from the product load out facility to Brisbane by road and from Brisbane will then be transported onwards to final destinations.

For more detailed information on the technology demonstration plant please visit the QER website (www.qer.com.au) or the Visitor Centre at the New Fuels Development Centre, 375 Landing Road, Yarwun.