



The facts

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. QER, an Australian company, has rights to several of Queensland's largest oil shale resources, containing about 16 billion barrels of oil. 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

Creating new fuels for Australia

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QER's New Fuels Development Centre at Yarwun north of Gladstone in Queensland contains an oil up-grading unit producing ultra low sulphur diesel, jet fuel, low sulphur fuel oil and other products that Australia's planes, trains, trucks and ships will need in the future.

QER's production quantities of these high quality fuels will be small for the next few years. We will only produce about 37 – 40 barrels per day of synthetic crude oil and high quality fuels for transport. (A barrel contains 159 litres, so this equates to between 5,800 litres and 6,300 litres per day).

We are able to store up to 1,300 barrels (206,000 litres) of products at the New Fuels Development Centre. Fuels will be transported from the product load out facility to Brisbane by road or rail and will then be transported onwards from Brisbane to final destinations.



Testing and certification

The relative proportions of ultra low sulphur diesel and jet fuel produced over the next few years by QER will vary from time to time according to testing requirements for volumes.

To ensure that the ultra low sulphur diesel and jet fuels meet Australian fuel quality and performance standards, we have engaged two of the world's foremost fuel research and testing institutes.

An independent, internationally respected research and development organisation in the USA has conducted engine testing on the ultra low sulphur diesel and compared the characteristics of the QER produced diesel with current diesel products. Results from the testing have been extremely positive. Ultra low sulphur diesel produced by QER can be used as a direct replacement for diesel in vehicles that meet current and proposed standards.

The jet fuel testing is being conducted by University of Sheffield staff at the Low Carbon Combustion Centre in the UK. This comprehensive evaluation program will take more than two years to complete.



Further long term fuel testing

QER will also operate some long-term real world trials for the ultra low sulphur diesel in trucks. These trials will take approximately two years and provide detailed comparative data on a range of parameters, such as the fuel economy and engine performance of QER's ultra low sulphur diesel compared with that of conventionally produced diesel.

Once completed, the results of the trials will be made available to Government agencies, Australian fuel standards regulatory authorities and diesel engine manufacturers.

While the jet fuel testing being undertaken in the UK will take more than two years, QER will be receiving interim results from time to time and we will provide those results to relevant Government and standards authorities.

For more detailed information on why QER is creating ultra low sulphur diesel and other new fuels for Australia please visit the QER website (www.qer.com.au) or the Visitor Centre at the New Fuels Development Centre, 375 Landing Road, Yarwun.



Until at least 2050, planes and heavy trucks will depend on oil and diesel to operate...