

## Information Fact Sheet - LNG versus Diesel

The following conversion factors have been used when comparing LNG and diesel in energy equivalent terms. The values are indicative only because the conversion factors vary dependent on a number of factors including location and feedstock used.

### Energy Content Conversion Factors

	<u>Volume</u> Mega joules/Litre	<u>Specific Volume</u> Litres/Tonne	<u>Weight</u> Giga joules/Tonne
Liquefied Natural Gas (LNG)	<b>25.0</b>	<b>2,174</b>	<b>54.4</b>
Diesel	<b>38.6</b>	<b>1,182</b>	<b>45.6</b>

Source: *Energy in Australia 2012, Bureau of Resources and Energy Economics*

### Mobile LNG's Virtual Gas Pipeline LNG Production Facility

The following table demonstrates the impact of a single 400 tonne per day LNG production plant in displacing diesel, and then the impact of Stage 1 (4 LNG Plants).

The scenario where LNG displaces 25% of the annual 22.6 billion litres of diesel consumption in Australia is also included.

Source: *Australian Petroleum Statistics June 2013, Bureau of Resources and Energy Economics.*

<b>MEASURE</b>	<b>UNITS</b>	<b>Per Project 1 x LNG Production Plant</b>	<b>Stage 1 4 x LNG Production Plants</b>	<b>LNG production required to displace 25% of the Total Australian Diesel Consumption</b>
<b>LNG PRODUCTION QUANTITY</b>	tonnes / day	<b>400</b>	<b>1,600</b>	<b>10,987</b>
	tonnes / annum	<b>146,000</b>	<b>584,000</b>	<b>4,010,356</b>
<b>DIESEL QUANTITY DISPLACED</b>	tonnes / annum	<b>174,175</b>	<b>696,700</b>	<b>4,784,284</b>
	Kilolitres / annum	<b>205,875</b>	<b>823,500</b>	<b>5,655,024</b>
<b>REDUCTION IN DIESEL IMPORTS ACHIEVED</b> Based on diesel import cost of \$0.77 / litre	\$m / annum	<b>\$159m</b>	<b>\$636m</b>	<b>\$4,354m</b>
<b>FUEL COST SAVINGS ACHIEVED,</b> Based on LNG cost being 25% less than diesel, and a diesel price of \$1.00 / litre	\$m / annum	<b>\$51m</b>	<b>\$204m</b>	<b>\$1,414m</b>
<b>REDUCTION IN CARBON EMISSIONS ACHIEVED,</b> Based on LNG use being 25% cleaner than diesel in CO2 emissions	tonnes / annum	<b>117,568</b>	<b>470,272</b>	<b>3,229,392</b>