

FACTS ABOUT DIESEL PRICES & THE AUSTRALIAN FUEL MARKET

INTERNATIONAL PRICES & INFLUENCES

Crude oil, diesel and petrol are different products and are bought/sold in their own markets.

Each market is typically <u>regionally based</u> and there are linkages and transactions between regional markets to balance global supply and demand.

Diesel prices in regional markets reflect the supply and demand balance in each market.

 \Rightarrow Thus, diesel prices (like other commodity prices) are determined by market forces, not production costs.

Australia's regional market for petroleum products is the Asia-Pacific market.

- ⇒ Diesel is the dominant fuel in Asia and in recent years there has been a significant increase in demand, particularly as a result of the economic and industrial growth in China and India.
- ⇒ Australian demand growth has also been strong on the back of our growing economy and the higher demand from industry particularly as a result of the mining and commodity boom.
- ⇒ Regional diesel supply has not kept pace with this demand growth and, as a result, <u>diesel prices</u> <u>have risen</u> in the region including Australia.

The <u>Singapore benchmark price</u> of diesel (Gasoil, 10ppm sulfur diesel) is the current diesel price benchmark for Australia.

- \Rightarrow Singapore is the regional refining and distribution centre and among the world's largest.
- ⇒ The Singapore price for diesel can be significantly higher or lower than that for petrol, due to the impact of <u>different supply and demand pressures</u>.

To meet Australian demand, 60% of diesel is currently imported from Asia.

Australian refiners must price diesel to be competitive with imports from Singapore and the Asian region (so called 'import parity').

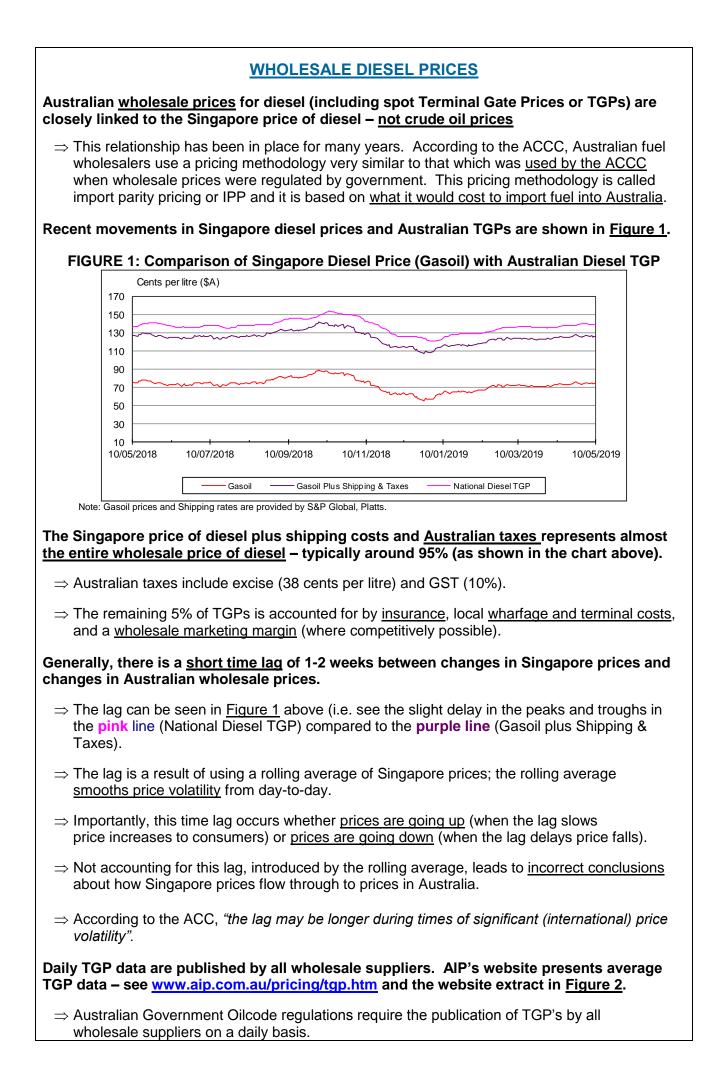
 \Rightarrow If Australia's diesel prices were below Singapore prices, Australian fuel suppliers would have <u>no commercial incentive</u> to import the diesel needed here (because sales of that fuel would be at a loss here). In addition, Australian refiners would have an incentive to export production.

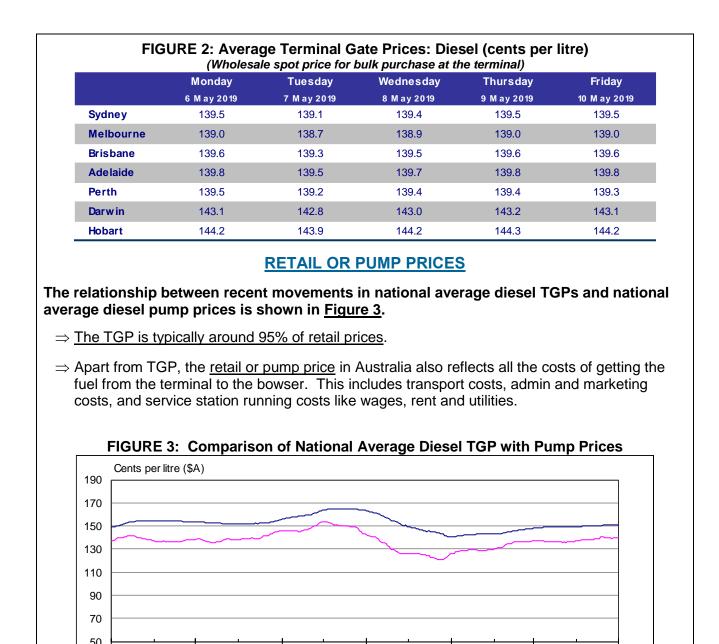
'Refiner margins' are the differences between product prices and crude prices, both of which are set by the market, <u>not by oil companies</u>.

⇒ For example, a Singapore diesel 'refiner margin' is the difference between the market prices for Gasoil (10ppm sulfur) and the relevant benchmark crude oil.

The international price for diesel is also affected by the demand for other petroleum products.

- ⇒ This is because diesel is one of the middle distillates, which also includes kerosene, jet fuel and heating oil. If Asian refiners produce more kerosene or jet fuel as a result of increased demand, they will produce less diesel and this has an impact on supply availability and price.
- \Rightarrow There is also a seasonal shift of refining production from petrol in the northern summer towards distillate (inc. heating oil) in the northern winter that affects relative prices of these products.





Diesel and petrol have usually followed each other closely in pricing. However, in recent years a gap has opened up for extended periods as a result of changes in the relativity between <u>international diesel and petrol prices</u>.

12/11/2018

12/01/2019

12/03/2019

National Average Diesel Pump (Retail)

12/05/2019

In addition to the international factors influencing Australian wholesale prices, diesel pump prices here are affected by <u>domestic market factors</u>.

12/09/2018

National Average Diesel TGP (Wholesale)

12/05/2018

12/07/2018

- ⇒ Only around 25% of the diesel used in Australia is <u>sold through retail outlets and much of that</u> <u>is sold to account customers</u>. Most diesel is sold in bulk to commercial/industrial customers (eg. mining and transport companies) on long term contract.
- \Rightarrow In the Australian retail market, there is very little <u>diesel sold to private customers</u>.
- ⇒ Hence retail diesel prices, unlike petrol prices, are <u>not subject to aggressive price discounting</u>. At service stations, retailers concentrate on petrol/LPG discounting to drive overall fuel sales volumes and associated convenience store sales.

CITY VERSUS COUNTRY RETAIL PRICES

The difference between city and country <u>diesel retail prices</u> largely reflects the <u>domestic</u> <u>market factors</u> noted above. In 2014, the national average city-country retail price difference for diesel averaged <u>3.4 cents per litre</u>.

Retail margins are <u>typically higher in the country</u> compared with major capital cities, due to <u>lower fuel volumes and shop sales</u> over which to spread service station operating costs.

- \Rightarrow <u>Freight</u> is typically around 1.5 to 4 cents per litre greater for country than city delivery.
- \Rightarrow <u>Distribution costs</u> may be significant for some country areas where fuel must be stored in depots and double-handled, rather than being delivered directly from coastal terminals.

Retail prices in regional areas are largely set by <u>independent owner/operators</u> (including those who sell fuel supplied by one of the major brands under licence).

FUEL QUALITY & FUEL EFFICIENCY CONSIDERATIONS

To meet the <u>low sulfur fuel standard</u> for Australian diesel (10ppm sulfur) requires <u>extensive processing</u> in the refinery to remove the sulfur from the crude oil.

 \Rightarrow This is similar processing to that required for low sulfur petrol.

The tighter diesel fuel standards are now delivering dramatic reductions in vehicle emissions (including particulate emissions and black smoke), leading to a substantial reduction in the proportion of particulate emissions coming from motor vehicles and trucks in major cities and towns.

While the price of diesel relative to petrol is an important consideration, diesel consumers should also note that diesel has a higher energy content compared to petrol.

 \Rightarrow This means diesel delivers more kilometers for each litre of fuel consumption - particularly when combined with new, efficient diesel engines.

Diesel engines are currently more fuel efficient than equivalent petrol engines.

PRICES & COMPETITION

While the price of diesel has increased on the back of strong Asian and domestic demand, Australian customers continue to enjoy <u>low diesel prices by international standards</u>.

 \Rightarrow Figure 4 shows Australia has among the <u>lowest diesel prices</u> of all OECD countries.

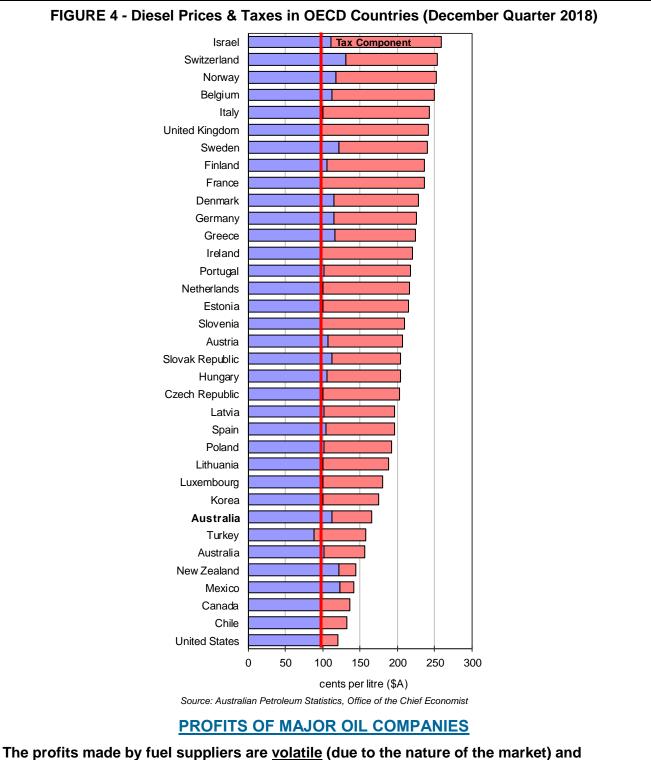
When comparing Australian diesel prices to other countries, allowance must be made for different government taxes and tax rates applying to diesel in each country and also for any subsidies and road user charges that apply in those countries but not in Australia.

- ⇒ For example, New Zealand has a very low tax on diesel at the pump, which is the GST Only (12.5%). However, the New Zealand Government applies a road user charge to diesel powered vehicles. A passenger diesel vehicle (less than 3.5 tonnes) traveling 25,000 km per year will pay road user charges of around NZ\$820 per annum in New Zealand.
- ⇒ In comparison, the private diesel consumer in Australia (passenger vehicle) pays 38.143 cents per litre in fuel excise plus GST at the pump. Obviously, Australian businesses using diesel pay less net tax given the fuel tax credit arrangements.
- \Rightarrow Many countries in the Asian region <u>heavily subsidise</u> retail fuel sales.

Australia has low fuel prices because our petroleum market is fundamentally competitive.

 \Rightarrow All the way along the crude oil and products supply chains there are several large and numerous smaller market participants <u>constantly driving market competition</u>.

This is <u>a view shared</u> by many government/ACCC reviews of the petroleum market and by many informed commentators and analysts, including the International Energy Agency.



are typically a very small proportion of the final or retail price.

 \Rightarrow For example, average annual net profit over the last 12 years made by oil companies (across refining, wholesaling and retailing operations) is around <u>2 cents per litre</u> of all fuels sold.

There have been <u>investments of over \$3 billion by the industry</u> since 2004 in the cleaner fuels program to help enhance fuel supply reliability.

⇒ These investments are <u>generating significant environmental benefits</u>, particularly air quality improvements in metro areas (especially for particulate emissions from diesel engines).

Over the past decade, the major oil companies have invested over \$10 billion in Australia, compared with industry profits over the same period of around \$8.8 billion.