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**MOV3MENT**

transport energy environment



## Setting the scene: Four quick facts about transport in Australia

*Energy Productivity Summit – Transport session*

*14 April 2017*

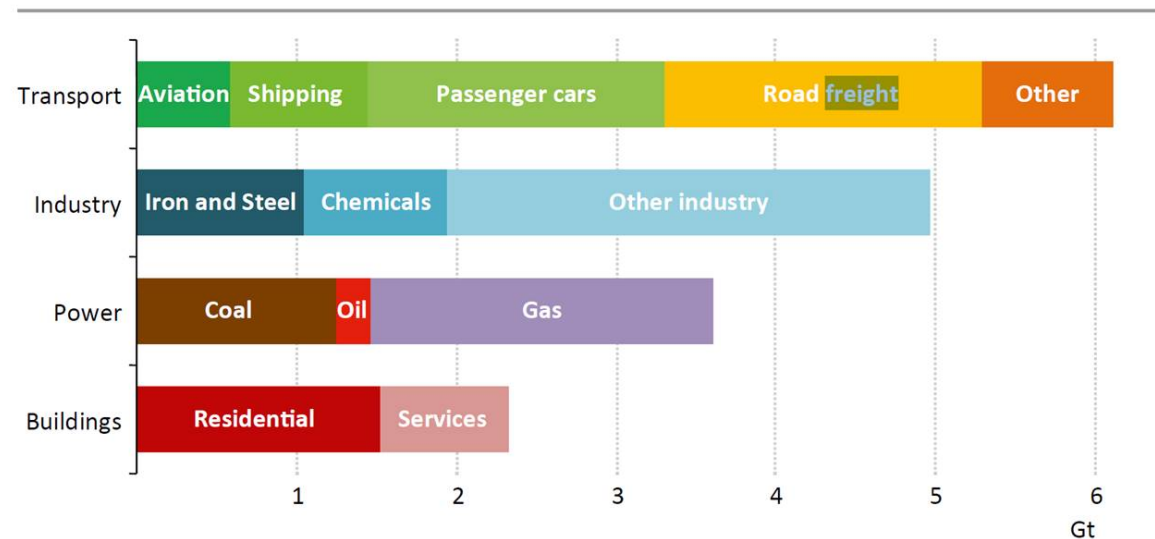
*Mark Gjerek, Chair*



# Fact 1: Transport is set to become the main source of GHG emissions

- In some countries, transport is already the largest source of GHG emissions

**Figure 8.14** ▶ Global energy-related CO<sub>2</sub> emissions by selected sector in the 450 Scenario, 2040



Source: IEA 2016

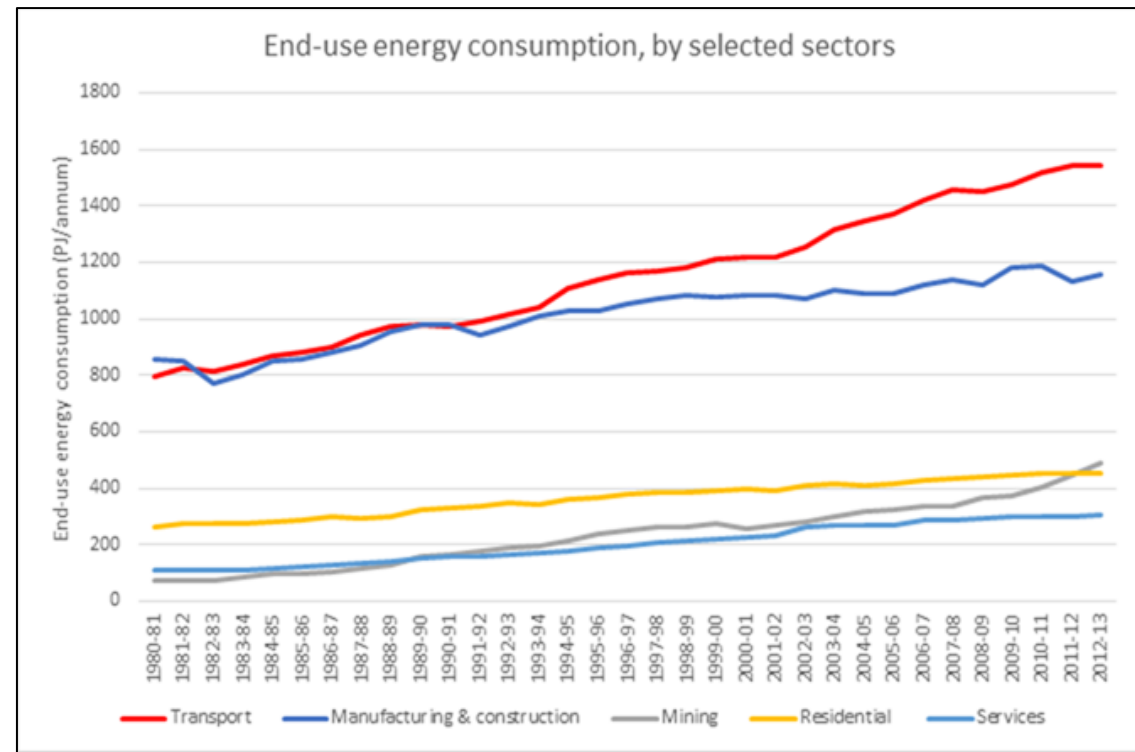
*Emissions that remain in the 450 Scenario in 2040 are concentrated in areas that are increasingly challenging to decarbonise*

- Not yet in Australia, but as electricity decarbonises, transport becomes dominant



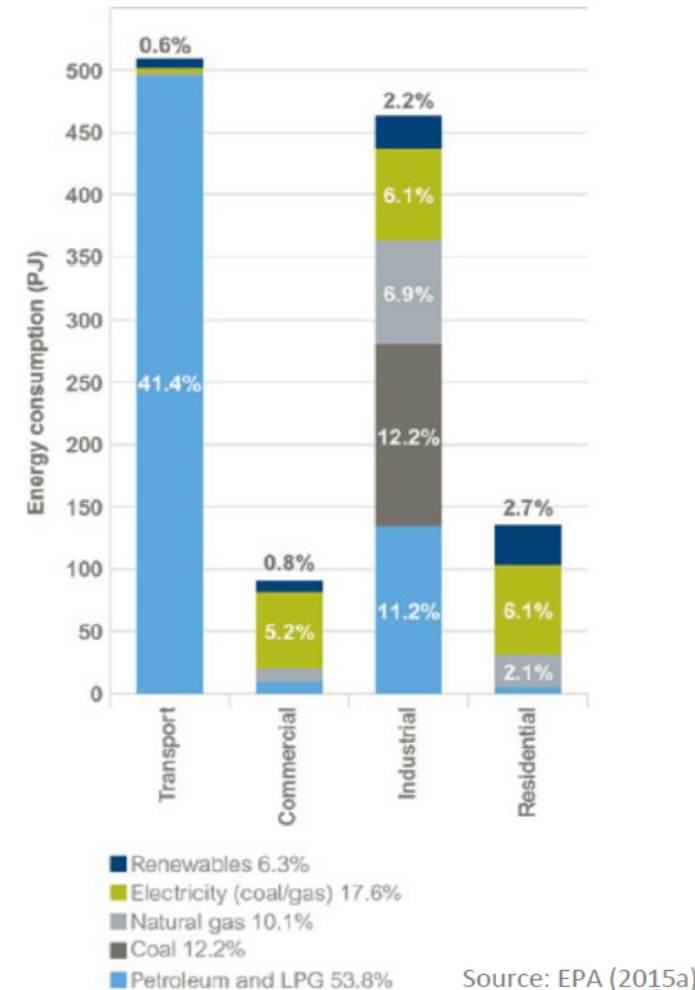
## Fact 2: Transport is already the largest user of energy

- In 2012/13, transport overtook electricity production in terms of primary energy consumption
- In final energy terms, it is a giant: 39% of all final energy
- It's also the fastest-growing sector.
- Households spend more on fuel than electricity & gas combined.
- Energy cost can represent up to 30% of opex for transport businesses.



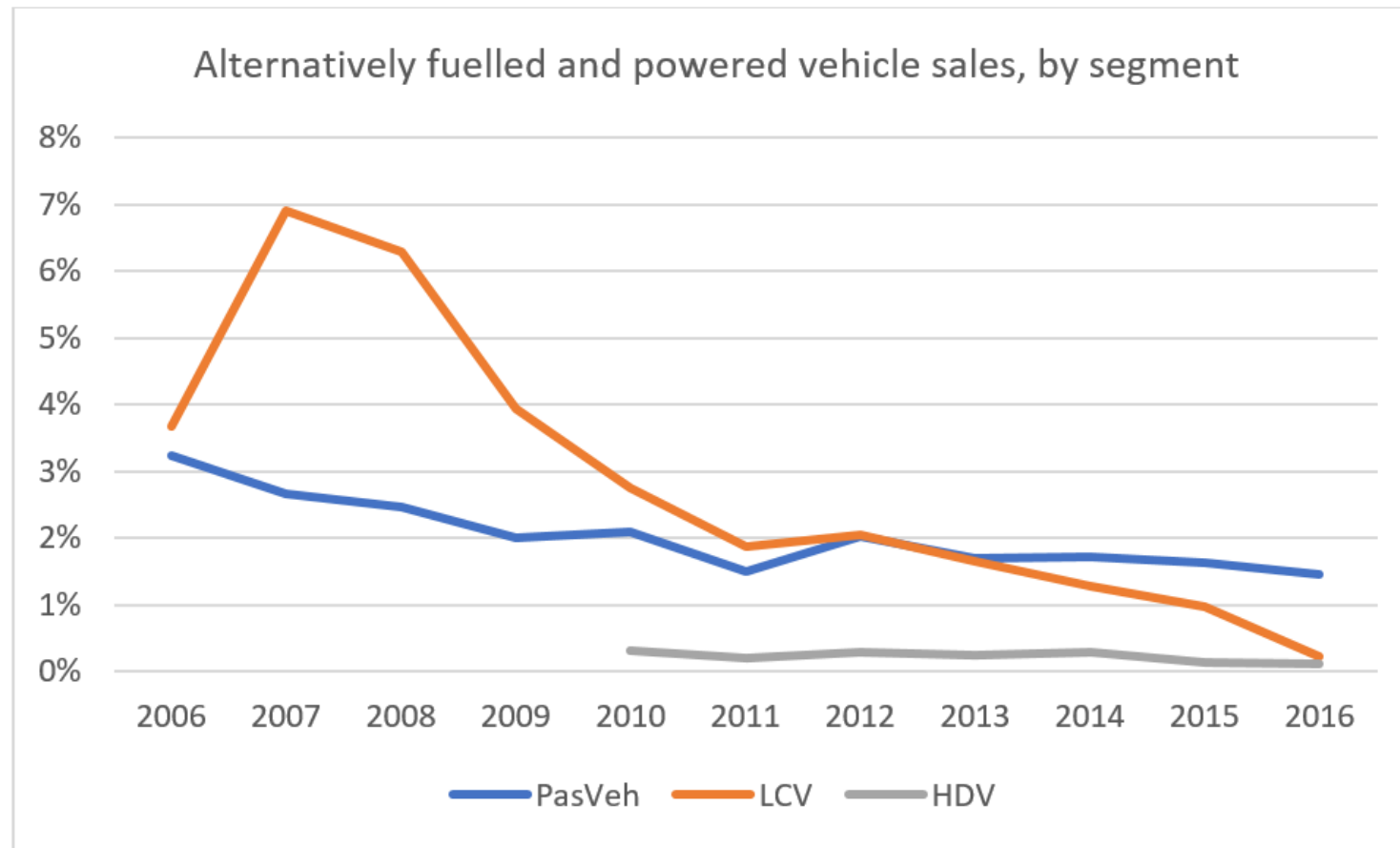
# Fact 3: Australian transport has a dependency problem

- Almost all transport energy in Australia comes from oil
- Lack of diversification raises risks:
  - supply & supply stability
  - price & price volatility (household/business costs)
  - competition
  - energy productivity
- There are no quantum leaps in efficiency for oil-powered transport.



# Fact 4: Just hoping for more efficient vehicles isn't working

- The long-term trend for LEVs/alternative fuels in Australia is OPPOSITE to overseas



Data: TIC 2017, VFACTS 2016

