

Some observations

Transitioning to a low emission future

John Carnegie Executive Director
BusinessNZ Energy Council
GasNZ Industry Forum | 31 October 2019

- the 'Energy Trilemma'
- the New Zealand 'energy issues' map
- BEC2060 – a future for gas?

We don't know the future

“Prediction is very difficult, especially if it's about the future”

Niels Bohr



Martin Cooper photographed in 2007 with his 1973 handheld mobile phone prototype

What is the Energy Trilemma?

ENERGY SECURITY

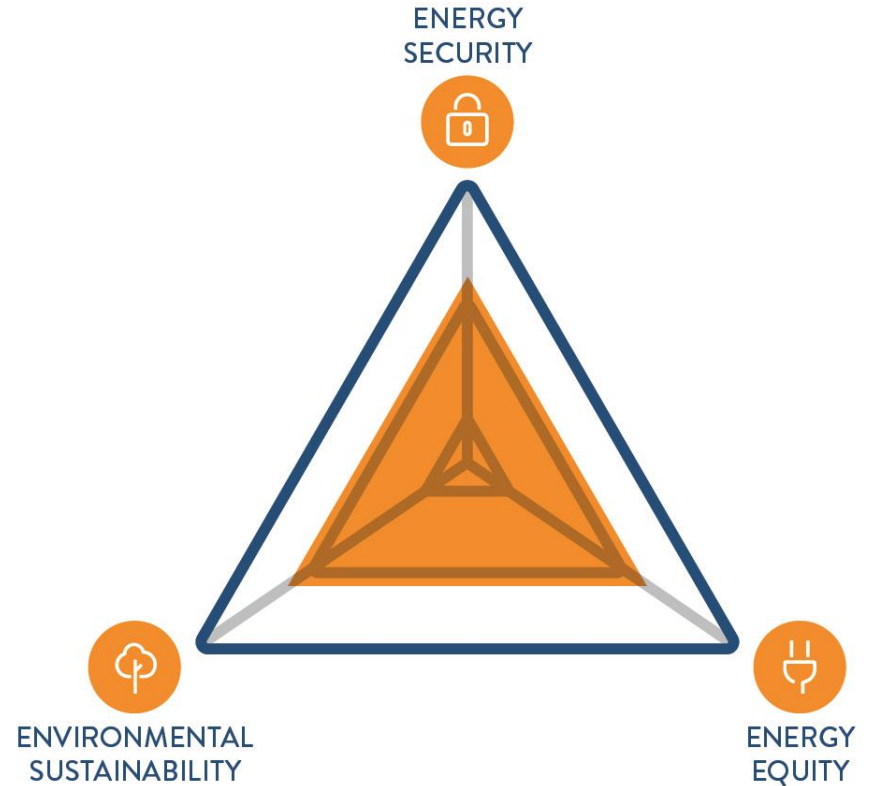
Effective management of primary energy supply from domestic and external sources, reliability of energy infrastructure, and ability of energy providers to meet current and future demand.

ENERGY EQUITY

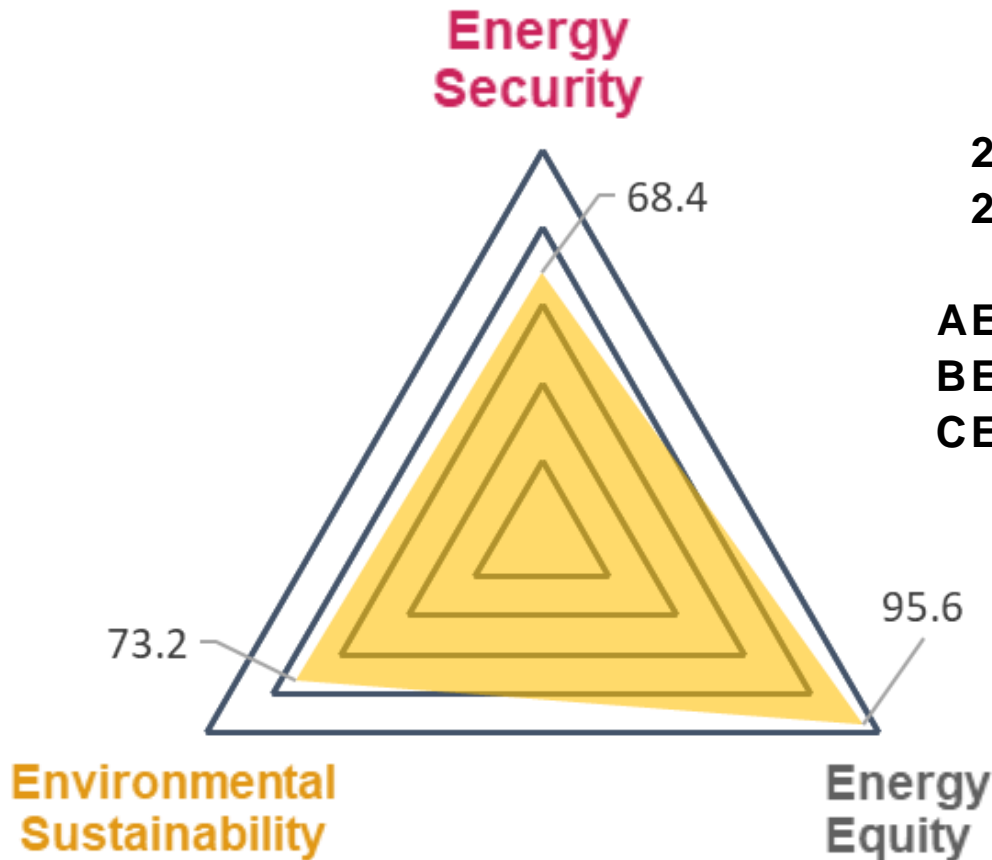
Accessibility and affordability of energy supply across the population.

ENVIRONMENTAL SUSTAINABILITY

Encompasses achievement of supply- and demand-side energy efficiencies and development of energy supply from renewable and other low-carbon sources.



How is New Zealand doing?



2019 Index Overall Rank
2019 Index Overall Grade

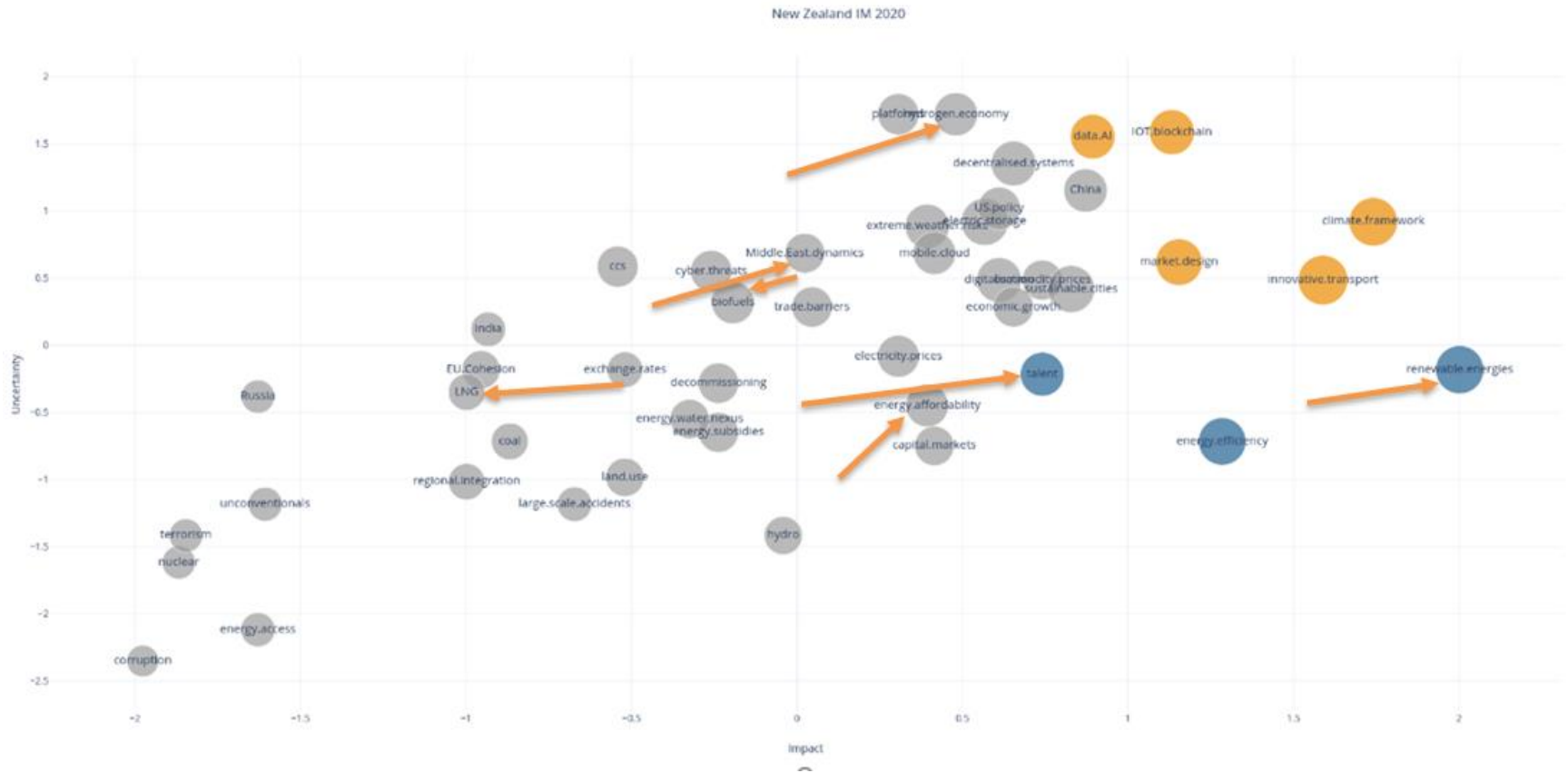
**New
Zealand**

#10
AAA

A Energy Security
B Energy Equity
C Env. Sustainability

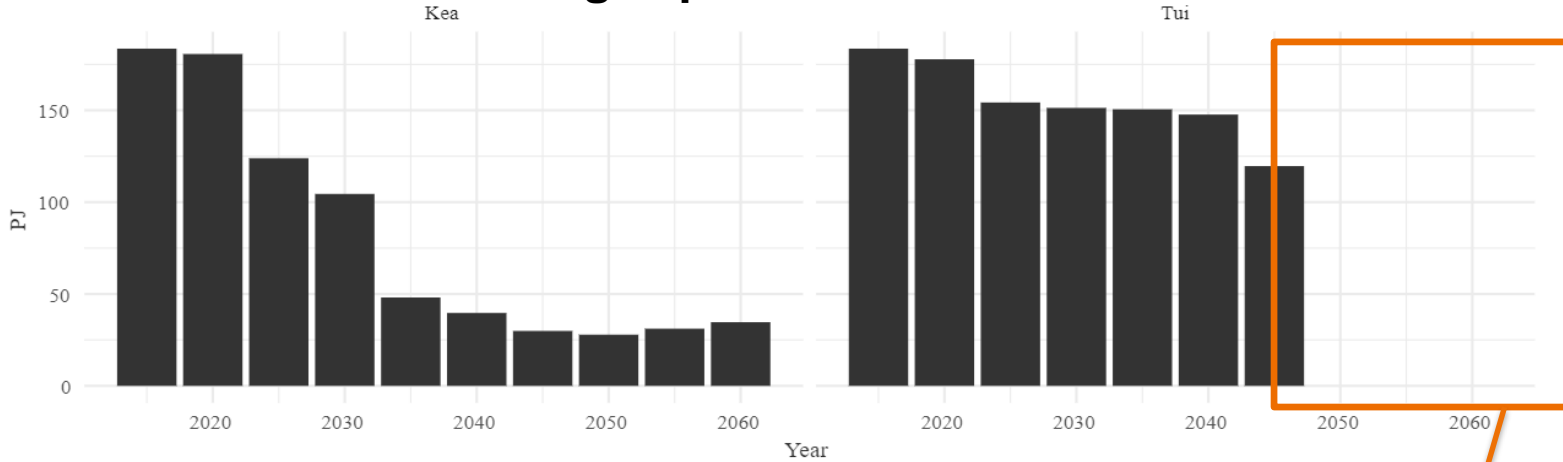
68.4
95.6
73.2

New Zealand energy issues map

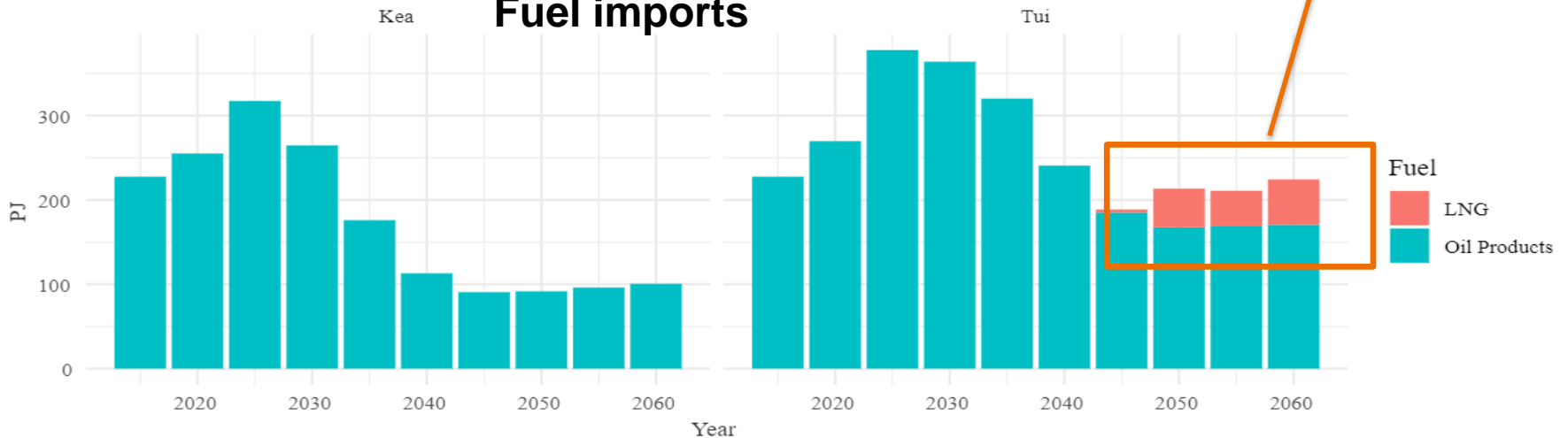


Some scenario (gas) results

Domestic gas production

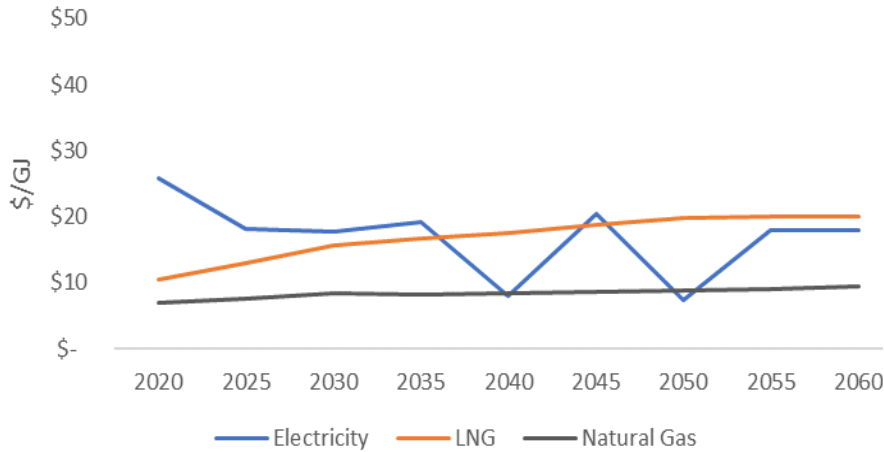


Fuel imports

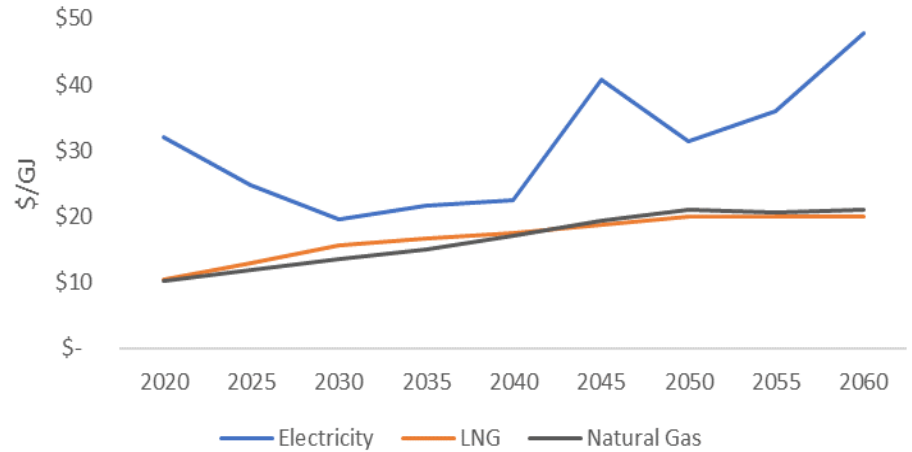


Gas price paths

Energy Prices Kea



Energy Prices Tui



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Thank you

John Carnegie
jcarnegie@businessnz.org.nz

Twitter @JohnCarnegie7 @BusNZEnergy