

The Energy Transition 2022 Frontier Conference

June 2022

Frontier's research in energy transition and renewable energy

A long track record of covering innovation in energy markets

Frontier International

2022

2010

Infrastructure – energy transition – part 1
December 2021

Frontier International

Infrastructure – energy transition – part 2
February 2022

THE Frontier Line

Thought leadership and insights from Frontier Advisors

Issue 162

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International

Global research and insights from Frontier Advisors

Observations on Infrastructure

European Research Trip

Issue 30

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Battery Energy Storage

Renewable Energy Industry

THE Frontier Line

Thought leadership and insights from Frontier Advisors

Issue 131

Grid Scale Energy Storage

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Energy Transition Part I

Energy Transition Part II

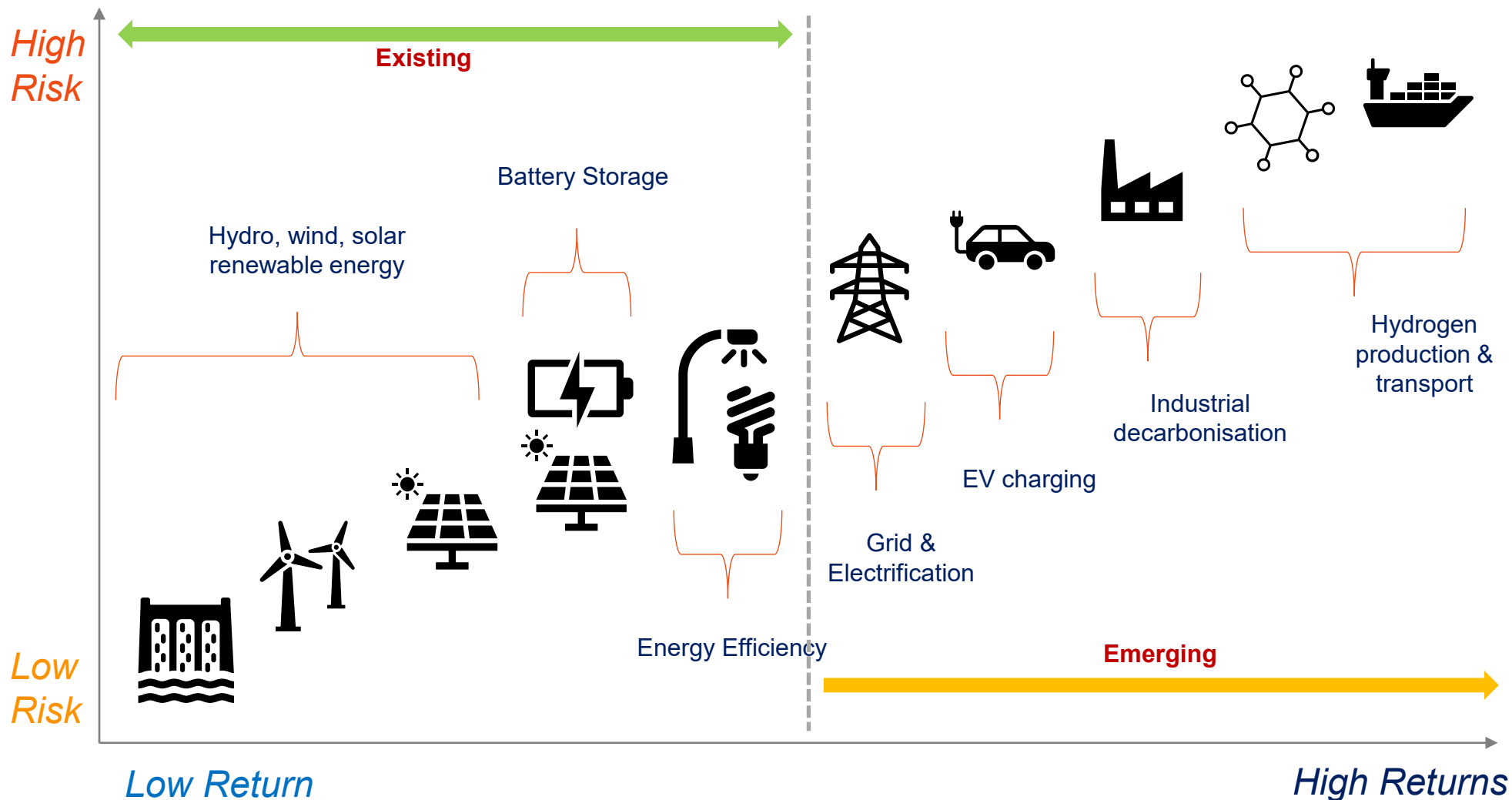
Australian Electricity Grid for Renewables

German Electricity Grid and Renewables



Illustrative risk-return relationship for energy transition

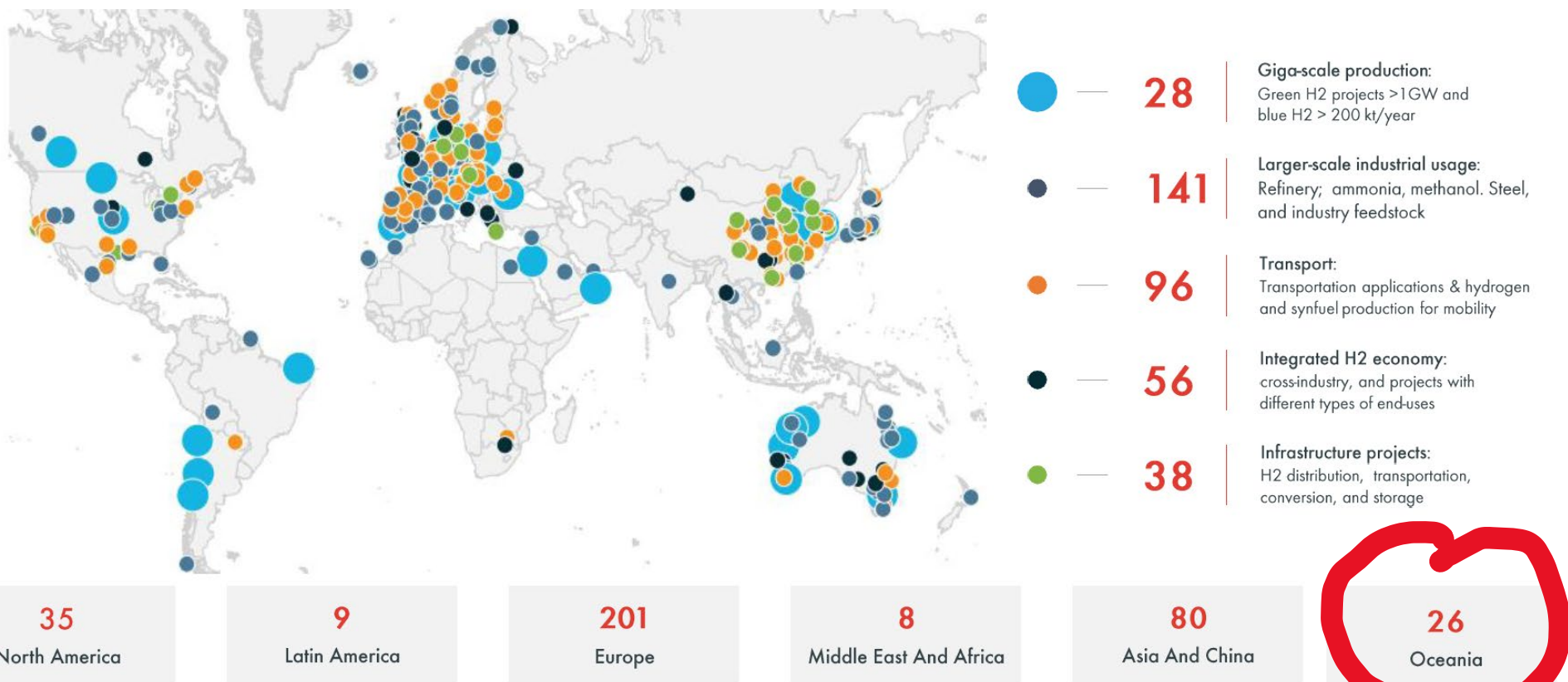
While renewables and energy efficiency are proven, business cases for decarbonisation and hydrogen infrastructure requires time



Hydrogen production readiness

Australia has an abundance of renewable generation capacity, water and a supportive investor base to develop a hydrogen ecosystem

- Europe and North Asia leading the charge
- Australia blessed with all right ingredients
- New infrastructure and export industries to flourish with declining cost of production

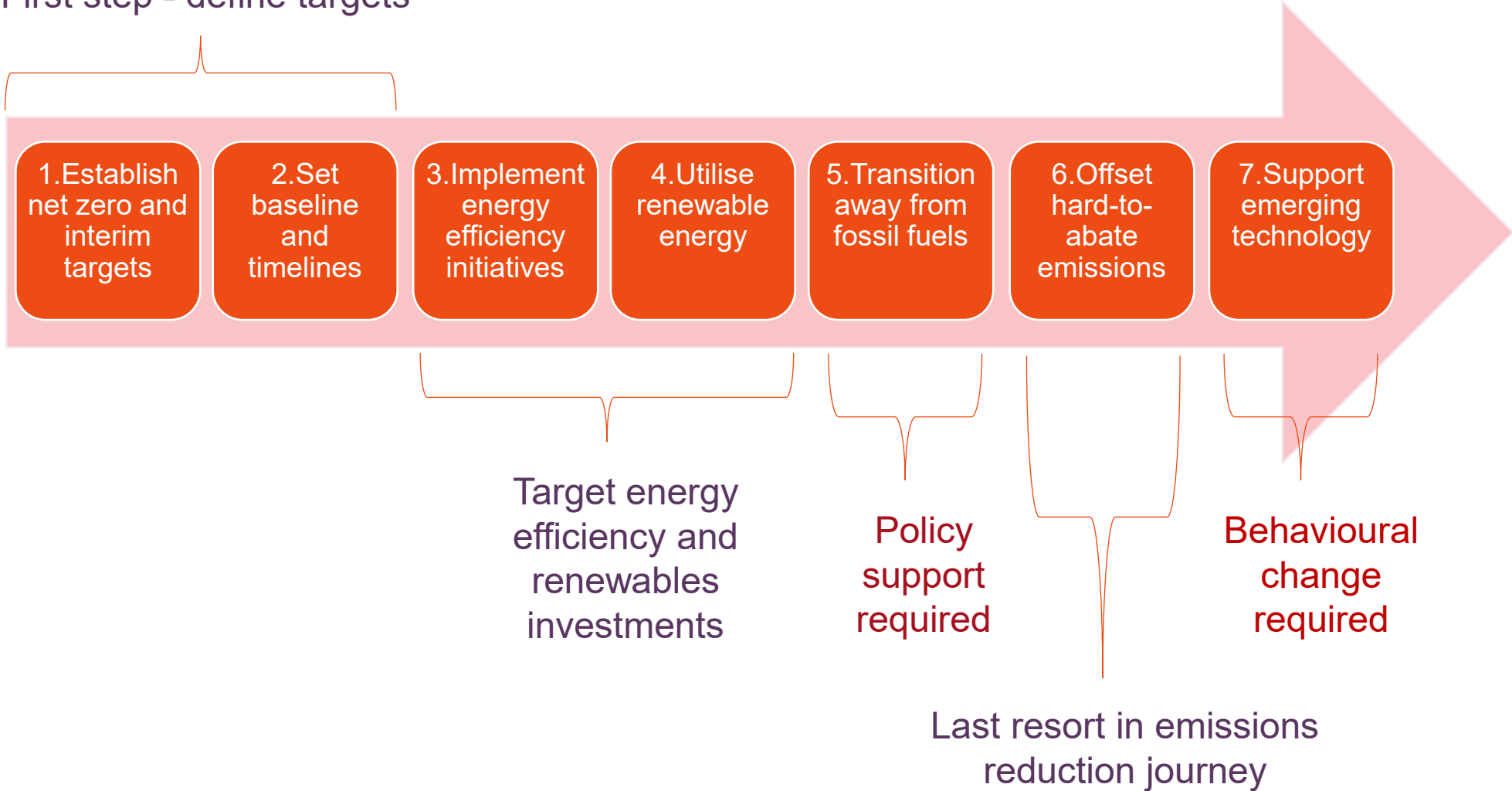


Source: Hydrogen Insights report July 2021, manager data

Roadmap for achieving net zero GHG emissions

Frontier can assist investors take advantage of the enormous energy transition opportunity

First step - define targets



Thank You





Octopus Australia

Create. Develop. Operate. **Change.**

octopus investments

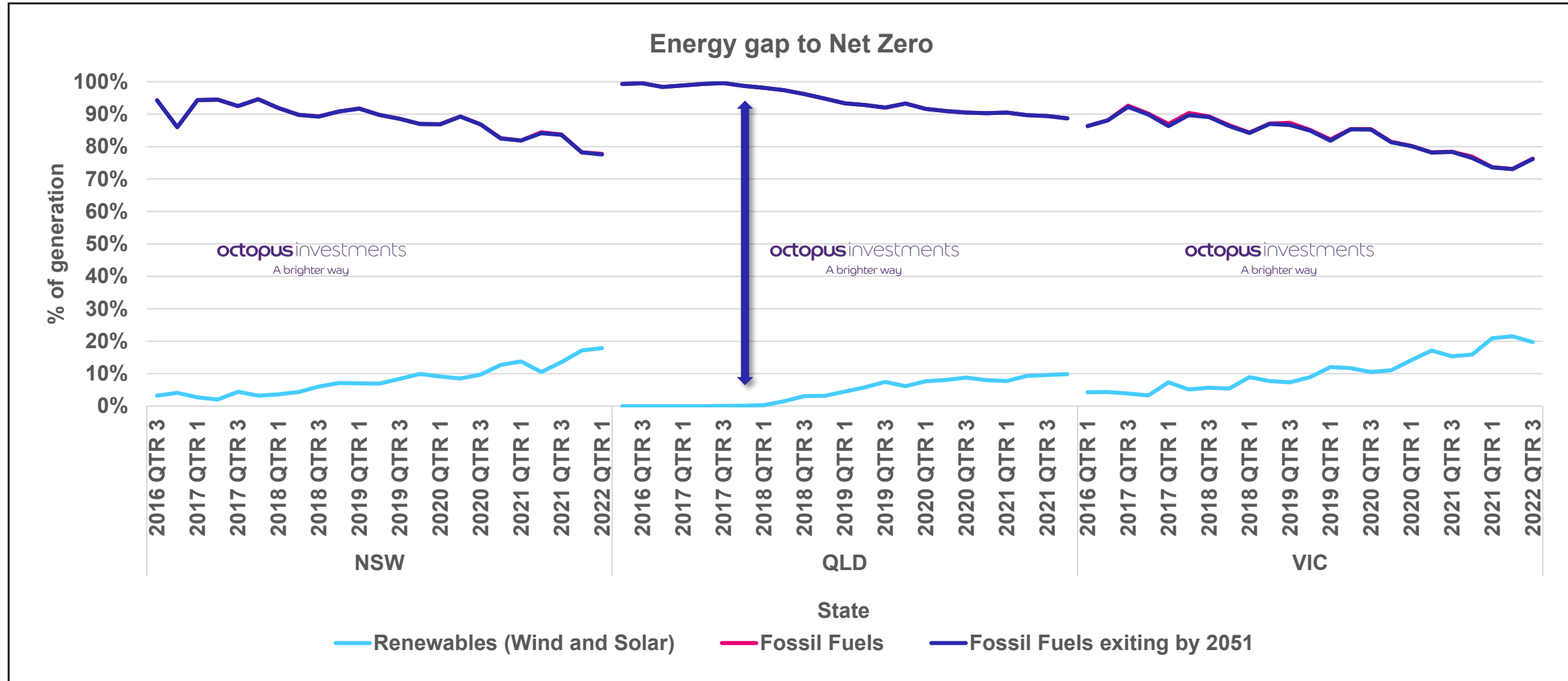
A brighter way

New Energy Transition – journey to net zero in Australia

Lumi Adisa – Head of Energy Markets, Octopus Australia

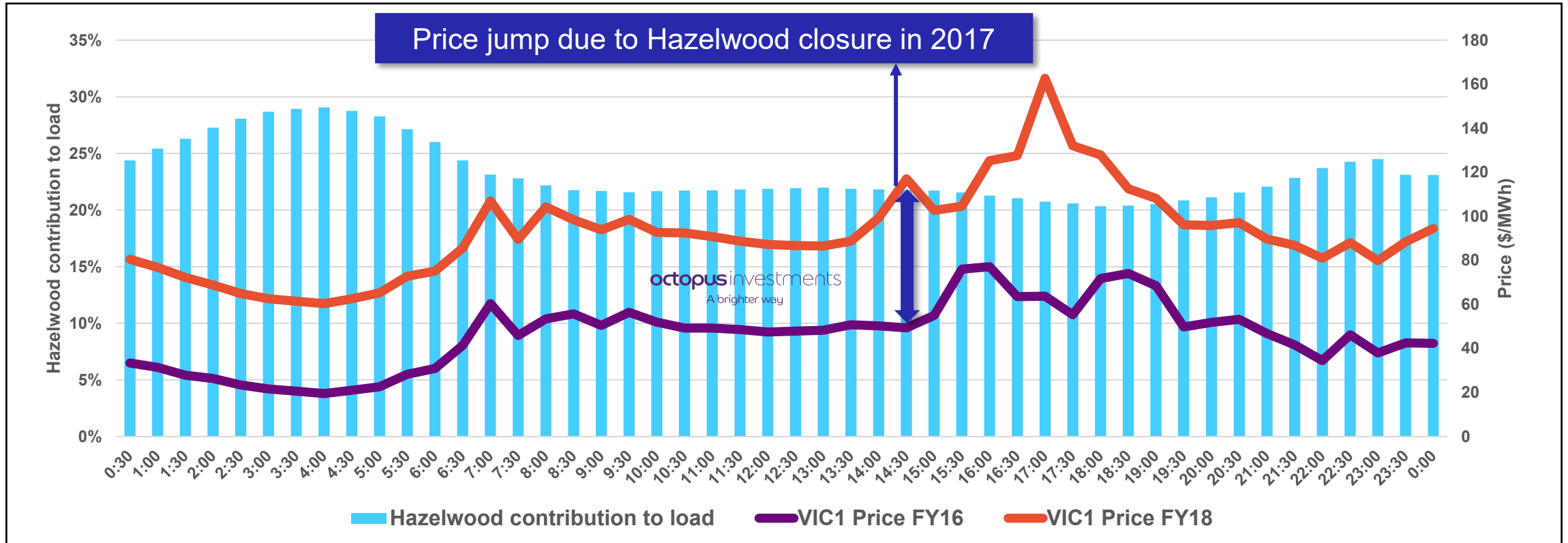
Supply: Massive supply gap needs to be breached to reach net zero in Australia

“The Glasgow climate deal is a game-changing agreement which sounds the death knell for coal power“ - Boris Johnson at COP26



Supply: what happens to market prices when a coal plant retires?

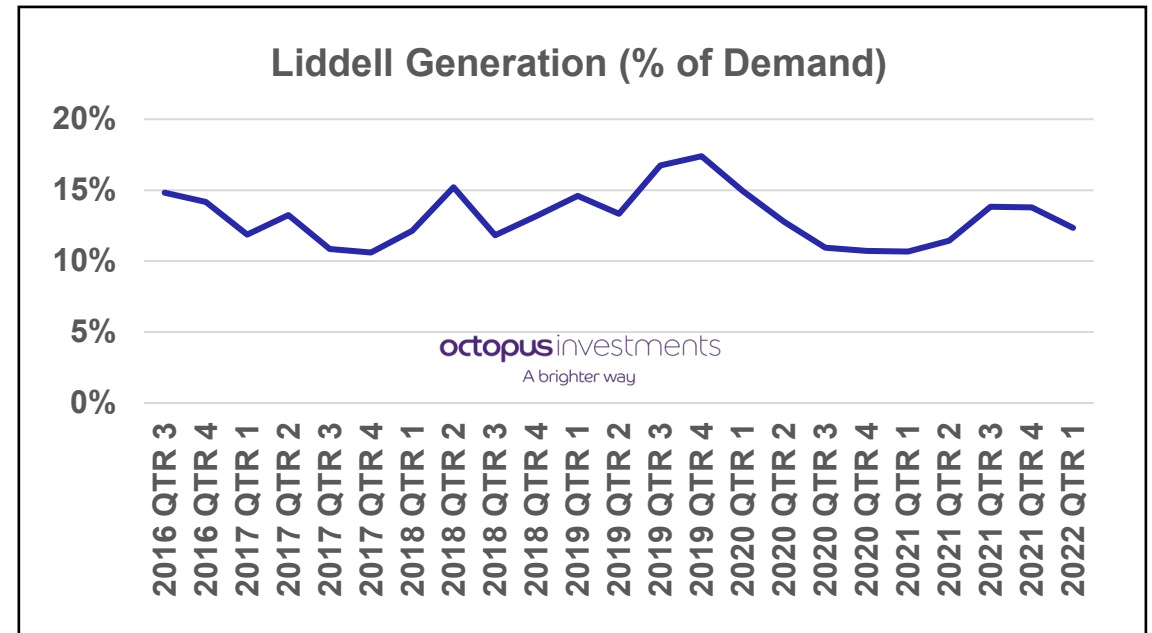
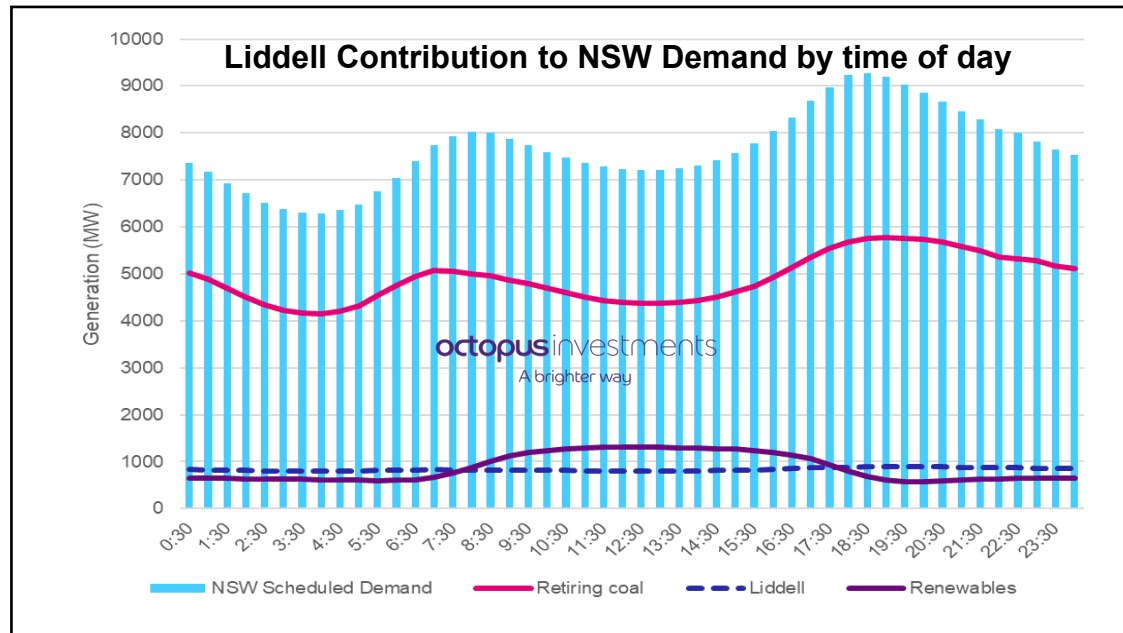
Upon Hazelwood power plant closure in 2017, average energy prices doubled during the day and tripled during peak periods



- 6 times the coal capacity of Hazelwood is leaving the market under Net Zero starting with Liddell this year









Supply: Liddell currently contributes a significant amount to NSW demand

About 12% of the current source of NSW generation is due to leave the market in the next year with 1 unit of Liddell already retired last April



- VRE growth in NSW is very low compared to the level of demand and the generation from exiting coal
- This gap will become more significant in the coming years as more demand comes on

Summary: Road to net-zero 2050 and what it means for investors?

Market drivers		Outlook
Supply		
Demand		
Government policy		
Social drivers		

End