

CARBON CAPTURE AND STORAGE

Roundtable Discussion – The Opportunity to Develop Carbon Capture and Storage is Now

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Why do we need CCS Demonstration Projects

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Why Do We Need Demonstration Projects?

- To assist in accelerating the deployment of clean coal technologies in Australia through de-risking the next generation of commercial plants

Key challenges:

- Time
- Regulatory
- Technical
- Stakeholder
- Commercial



Challenges for Deployment

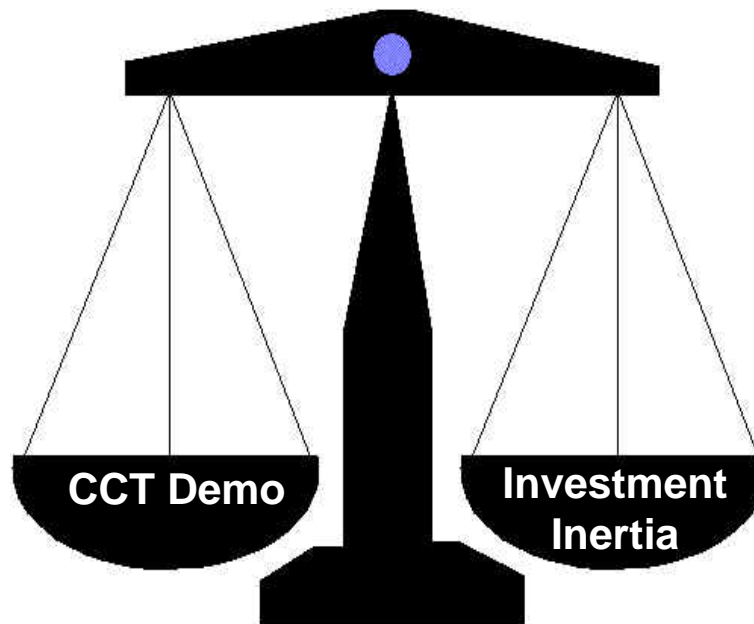
Time

- Race against time
- Accelerating CO₂ emissions and long development periods for new technologies
- Global move to reduce CO₂ emissions. Queensland's ClimateSmart2050 strategy relies on clean coal post 2020 to generate low emission baseload electricity

**Commercial
Confidence**

**Informed
Policy**

**Stakeholder
Acceptance**



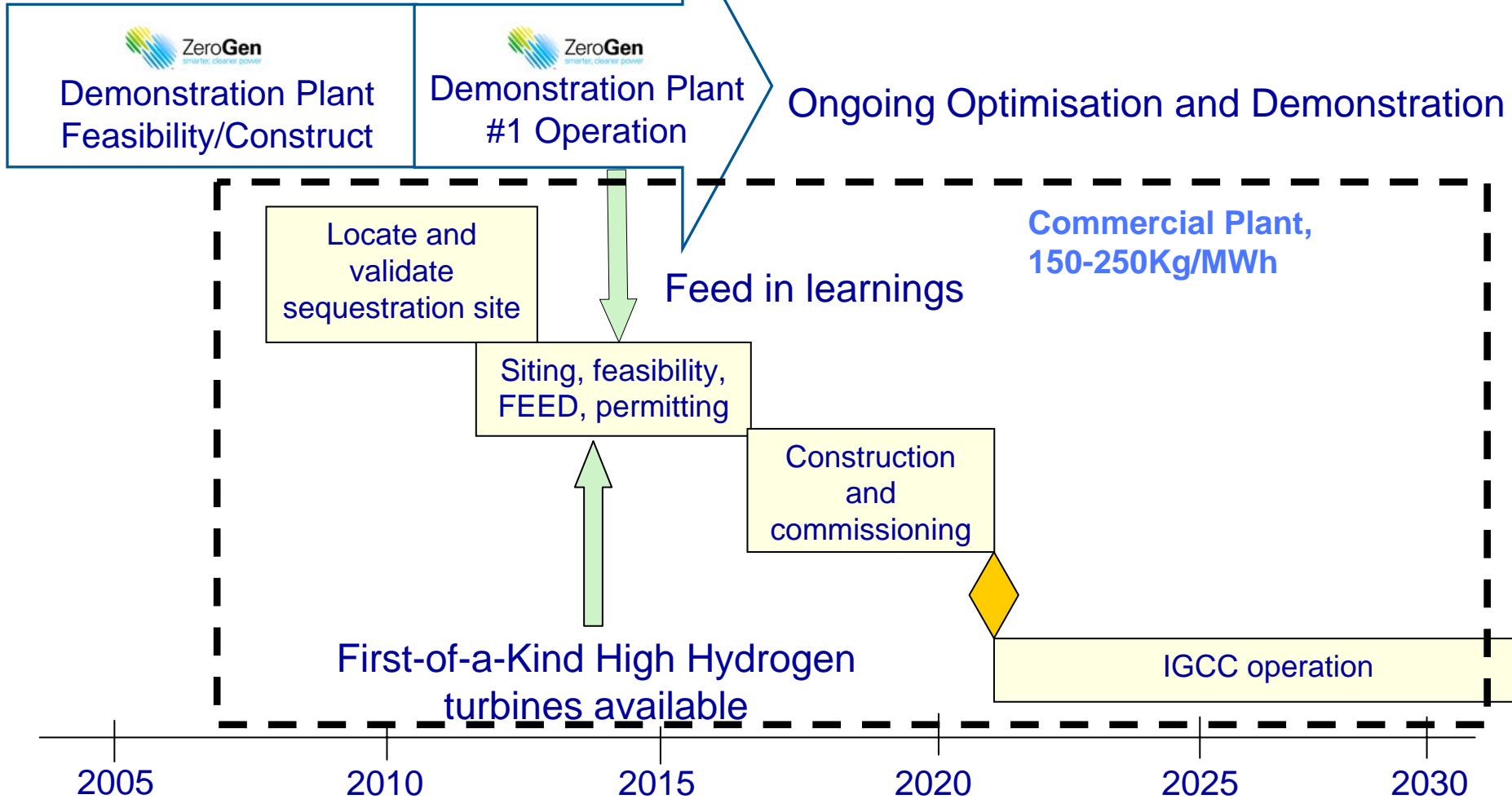
High Capital

High Risk

No CO₂ Market

No Reference Plant

Time: What is Possible?



Challenges for Deployment...contd

Commercial

- No clean coal technology is commercial without a price for CO₂
- Current global demand is limiting access to resources for development
- Early movers will need support
- Commercial risk is related to scale for demonstration plants
- Electricity market exposure
- Capital spend
 - 500MW net - \$3000M
 - ZeroGen Project - \$1200M

Identical learnings