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Panel Session 1 B:

Frameworks and institutional and research needs for decision making under uncertainty

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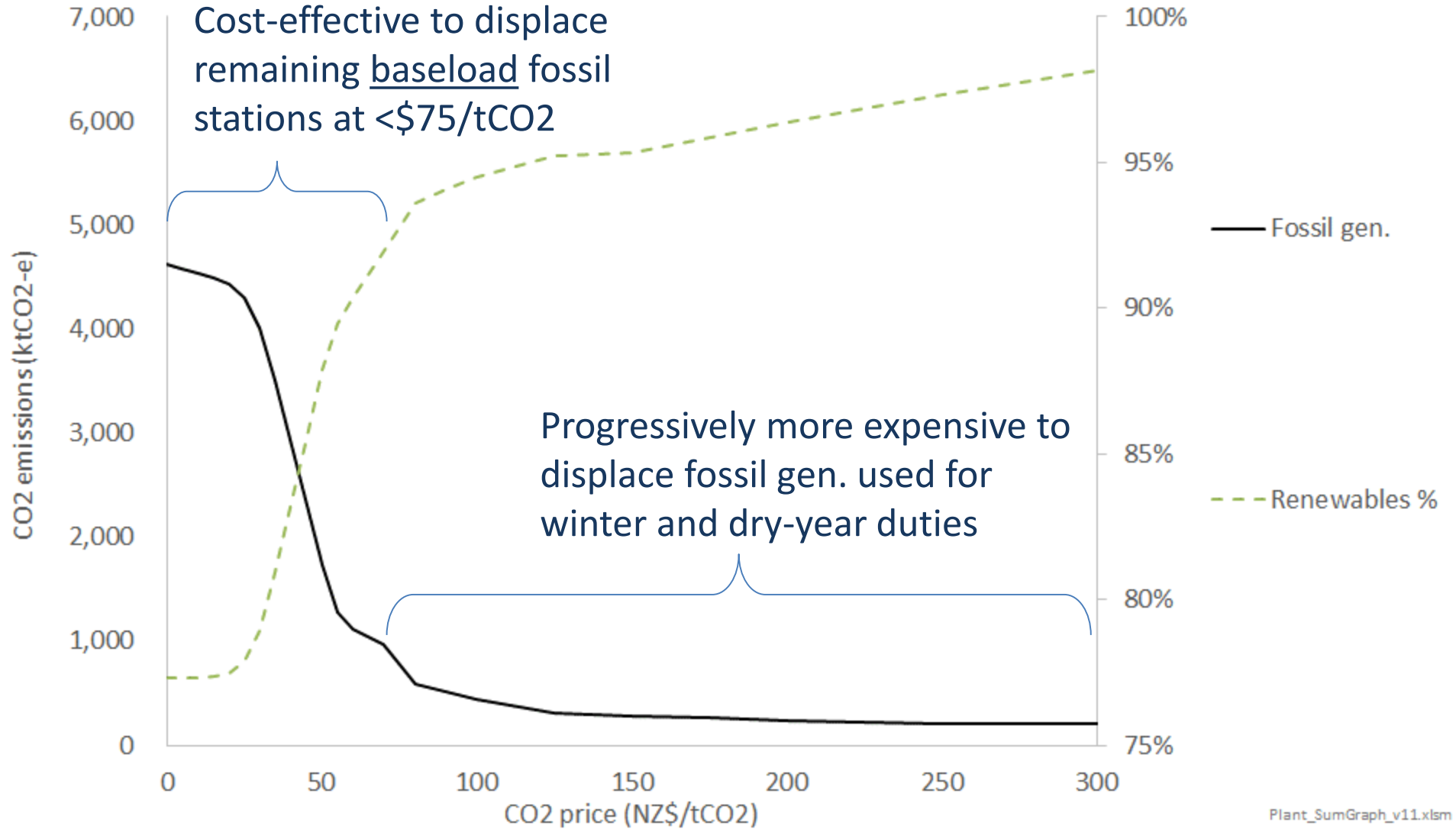


The need for integrated decision-making: 100% renewables as a case study

Simon Coates
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29 November 2017

www.concept.co.nz

How costly is it to displace our fossil generation?

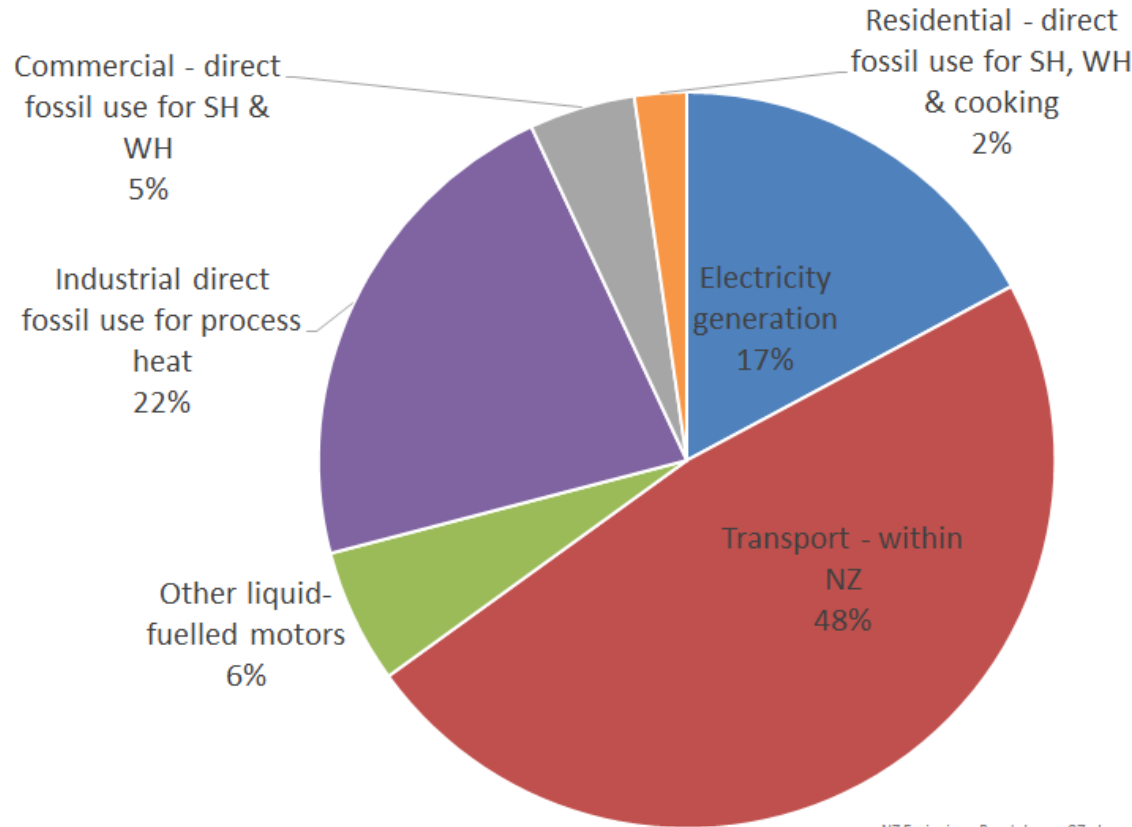


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Aiming for 100% renewables may lead to more emissions than 95% renewables!

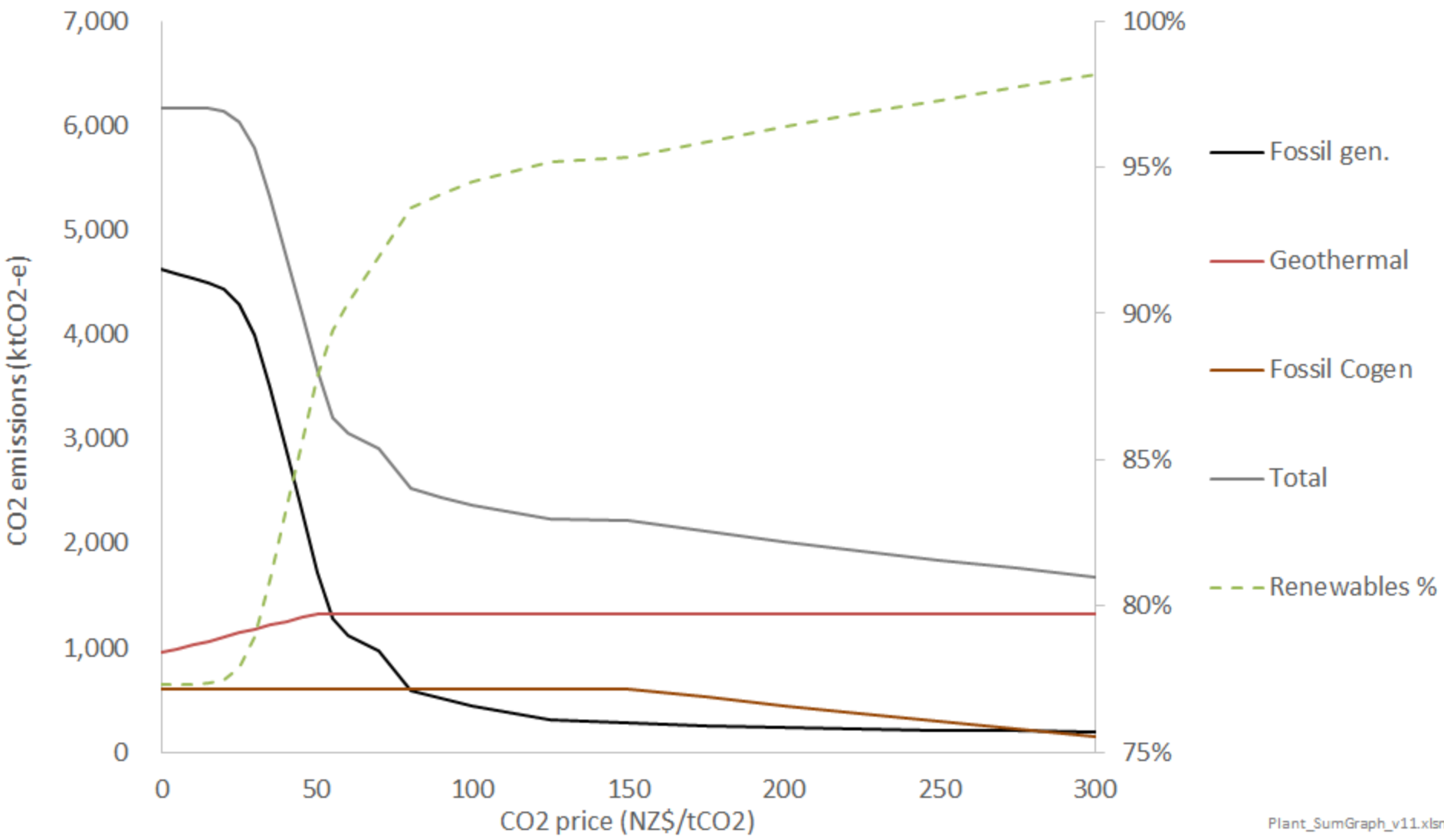
- Electrification is key technology for transport and process heat
- Making electricity more expensive may frustrate this bigger de-carbonisation prize

New Zealand's 2015 energy-related greenhouse emissions



NZ Emissions Breakdown v07.xlsm

Plus, why only focus on fossil generation when geothermal greenhouse emissions will become a bigger problem?



Plant_SumGraph_v11.xlsm

- Understand the interconnectedness of sectors
- Be careful of policies which attempt to pick technology winners
- Let (carbon) prices do a lot of the ‘heavy-lifting’ for choosing least-cost carbon-reduction technologies

About Concept

- Concept is a specialist energy and economics consultancy that provides services to clients in New Zealand, Australia and the wider Asia-Pacific region.
- Concept provides advice on energy sector policy, business analysis, restructuring, market design, regulatory issues, energy modelling, market analysis, and technical issues.
- Combining economic rigour, leading modelling & analytical skills, and practical backgrounds in the energy sector, Concept consultants are able to provide practical solutions to client problems based on robust analysis.
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