

How did we get there from here?

Key ingredients for an effective, efficient and just path to low emissions

Suzi Kerr, Motu Economic and Public Policy Research Australia-New Zealand Climate Change and Business Conference Auckland, 21 October, 2015

Where is 'there'?

Limit temperature rises below 2°C

The world transitions to a zero-net-emission economy by the end of this century

New Zealand (and Australia) transition even faster...

and help other countries along the way.

Net-Zero Emissions Future Vision

NZers have access to secure, resilient and affordable zero-net-emission energy to power their homes and businesses.

NZ operates a highly efficient, ultralow-emission food production system. NZ's economy is resilient, adaptive, globally networked and socially equitable, contributing to new opportunities and a high quality of life.

NZ's transport system ensures efficient, resilient and affordable zeronet-emission mobility for people and goods.

NZ's forest sector supports carbon sequestration and biofuel production while safeguarding ecosystem services and economic, social and cultural value.

Change is continuous

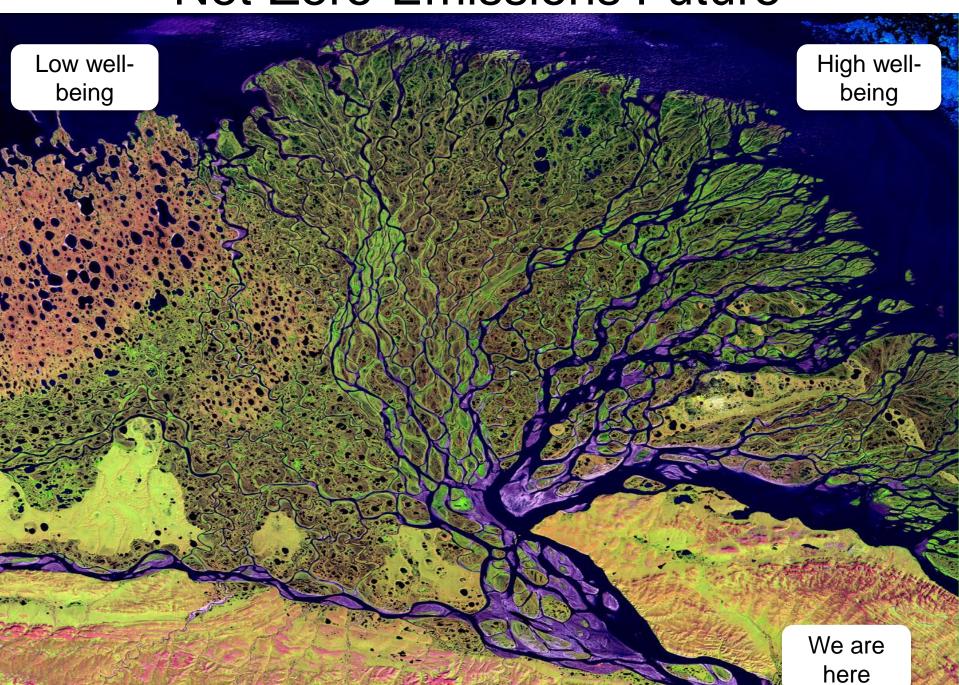
Alternative is not status-quo.

We need to bring in the new, and usher out the old.

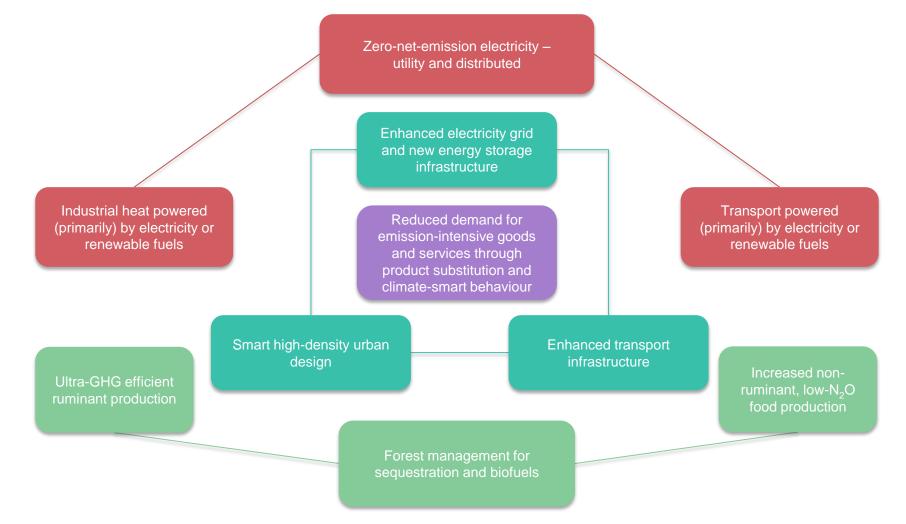




Net-Zero-Emissions Future

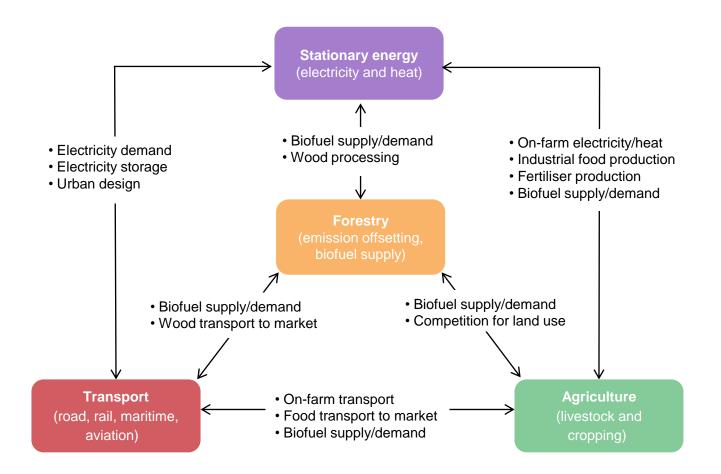


Driving a Net-Zero Emissions Future



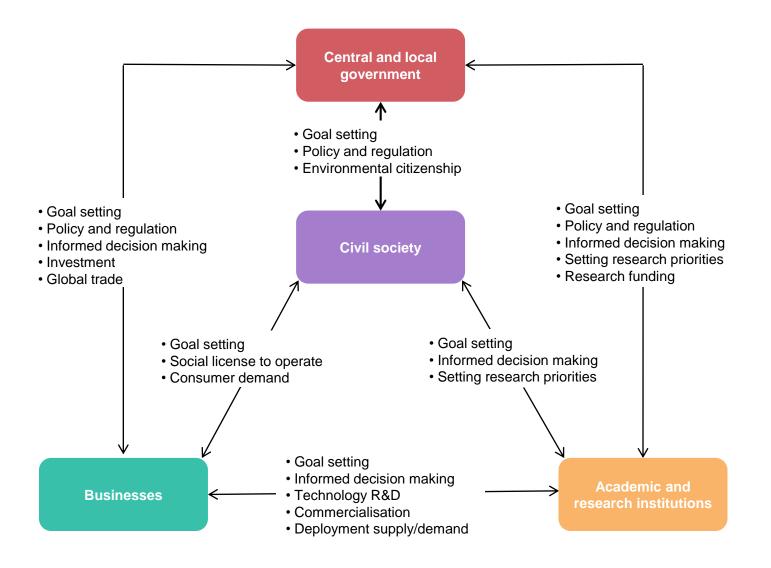
Offsetting of residual emissions by CCS or other means

2050 Pathway Linkages



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Who Will Make Change Happen?



But we don't know where we are going!

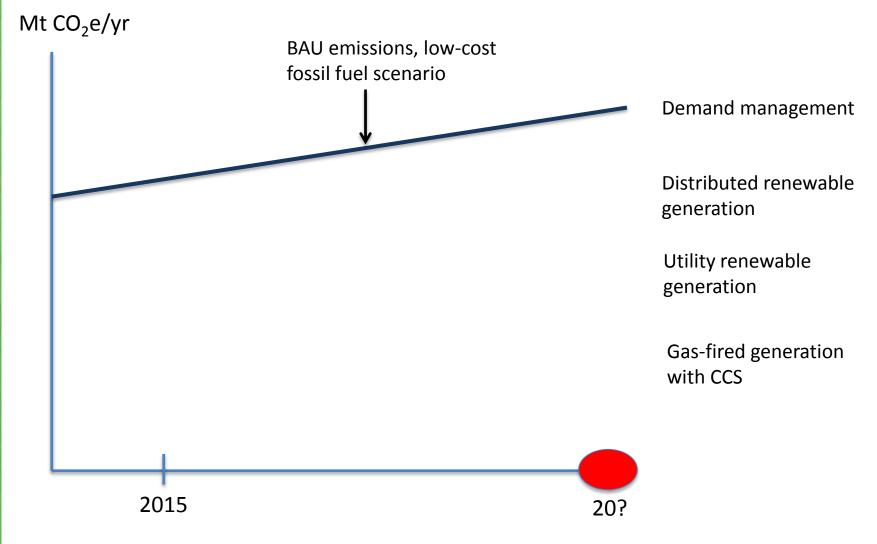
Consider the consequences of options

Make decisions

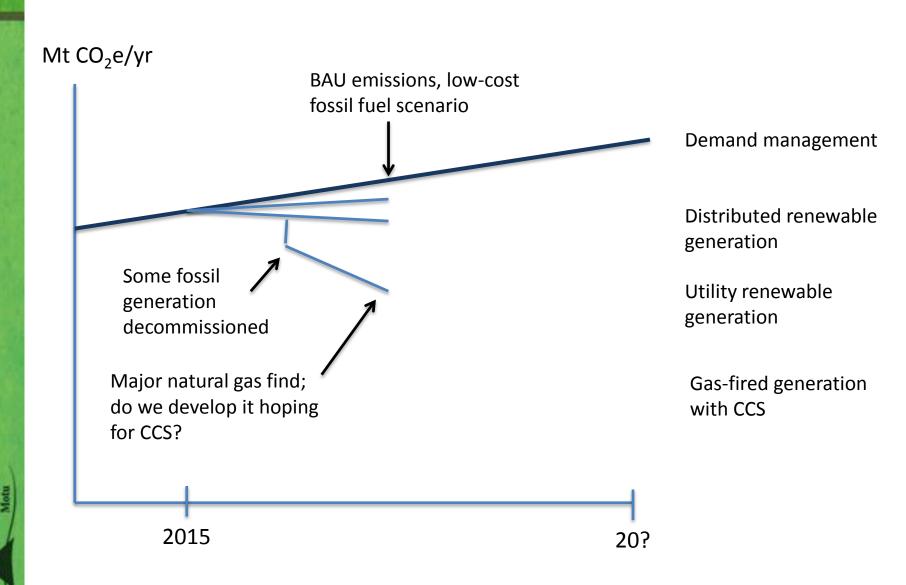
Maintain and expand options

But we don't know where we are going!

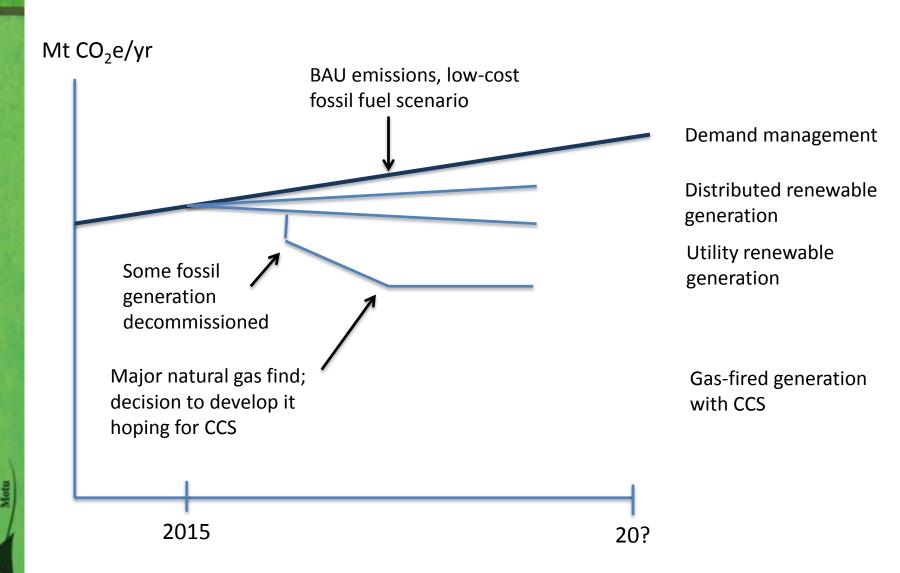
Zero carbon electricity production



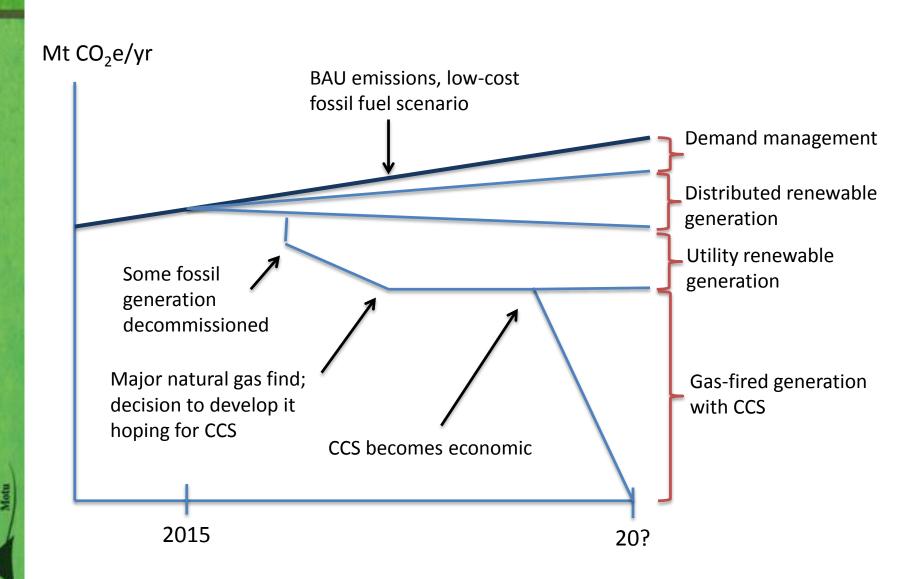
But we don't know where we are going!



What if we choose the gas route?

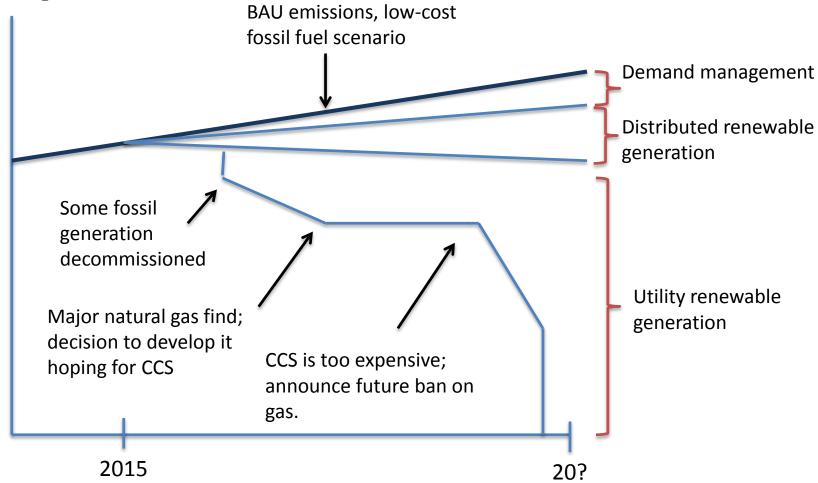


Technology might come through



But it might not – how do we make sure we are prepared?

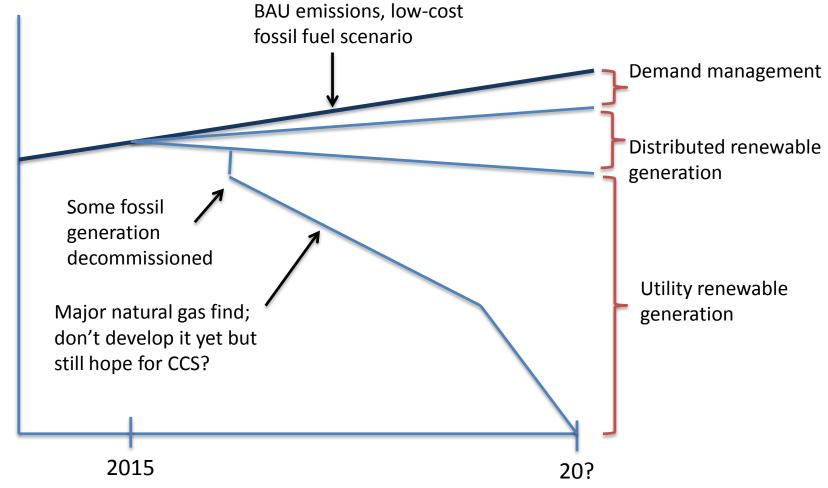
Mt CO₂e/yr



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Is this a more cautious alternative?

Mt CO_2e/yr



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NZ and a zero net emission world

Help others to help us We are like a developing country Our innovations – especially in actions – might work for them We are liked and trusted



We can tell our stories and share our skills better – and may be able to export.

But it is hard – we need to do it systematically Can this be done with business?

How do we get there from here?

Look back from success

- generates more ideas, and avoids despair

We can't predict the path

- Use imagination and careful thought
- Maintain and enhance options

A multitude of actions and actors

Most mitigation will happen in developing countries

- let's be an active part of that

Need for broad social process

- Transparent
- Well-informed
- Trusted
- Wide range of perspectives

A leaders' group to frame a net zero emission vision that everyone can support?

An ETS review outside government?