

Energy, Sustainability and Transport: Discovering the Pathway to 2040

	<i>Theme Leader</i>	<i>Facilitator</i>	<i>Room</i>
<i>Workshop 1: Decoupling Freight and CO₂</i>	Rick Barber	Peter Sheppard	129 Railway
<i>Workshop2: Less CO2 by design</i>	Reid Ewing	Glen Lauder	LT1
<i>Workshop 3a: Changing Behaviour</i>	Anna Percy	Jo Mackay	126 Railway
<i>Workshop 3b: Changing Behaviour</i>	Darren Walton	Liz Thomas	LT2
<i>Workshop 4a: Creating the Climate for Innovation</i>	Steve Batstone	Barbara Rouse	LT3
<i>Workshop 4a: Creating the Climate for Innovation</i>	Peter Winsley	Dean McLaren	127 Railway

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Plenary Report Back Panel

Steve Batstone

Peter Winsley

Anna Percy

Jo Mackay

Darren Walton

Liz Thomas

Reid Ewing

Rick Barber

Workshop 4

Facilitator
Glen Lauder

Workshop 3

Workshop 2

Workshop 1

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Workshop 1: Decoupling Freight and CO₂

Rick Barber

Peter Sheppard

Bronwyn
O'Keefe

Key Results:

- Lack of information necessary for emissions and energy related decisions within NZ supply chains
- Need to map the logistics industry structure and organisations to understand our risk exposure and develop mitigation strategies
- Need to understand the contribution local councils can make to improving urban freight movements and efficiencies
- Develop incentives and programmes to improve logistics based efficiencies
- Price emissions appropriately

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Workshop2: Less CO2 by design

Reid Ewing

Glen Lauder

LT1

Key Results:

- Develop understanding of good practice and integrated land use in NZ context. Need data on current patterns.
- Update laws (RMA), planning rules and guidance documents to include energy and CO2 in land use decisions
- Align financial incentives for developers with desired outcomes

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Workshop 3a: Changing Behaviour

Anna Percy

Jo Mackay

126 Railway

Key Results:

- Social marketing/ travel planning/ land use integration / PT/ capital projects/ pricing/ regulations
- integrate - these initiatives are mutually supporting
- Keep it positive – don't lecture me! Empower me!
- Put the money where the policy is
- Rewrite the manuals – roads are public space. They can work for everyone.
- Stay committed.
- Values – engage people as citizens, don't manipulate them as consumers

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Workshop 3b: Changing Behaviour

Darren Walton

Liz Thomas

LT2

Key Results:

- New Zealanders are not unique nationally but developed local norms inhibit the uptake of alternative transport modes
- We are in control of behavior change but need to actively manage a process of social change having regard to the influence of external events
- A radical step change is required and more of the same will not achieve the goal, in particular we need strong leadership and governance
- A concern for 56h environment will motivate change but not in all people and economic influences will ultimately bring about the most social change

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Workshop 4a: Creating the Climate for Innovation

Steve Batstone

Barbara Rouse

LT3

Key Results:

- **Society needs to embrace change**
- **importance of promotion/ funding of higher education, especially PhD, pilot and demonstration**
- **A tension between fast follower/ adapter and leader**
- **innovation should allow for play and failure**
- **Need for translation between policy, universities, CRI's, companies, society and innovators**

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Workshop 4b: Creating the Climate for Innovation

Peter Winsley

Dean McLaren

127 Railway

Key Results:

- Top priority is markets that address GHG emissions (rather than picking technologies)
- If we have to pick technologies, electric vehicles, supplemented by increased bio fuel use likely to have the biggest impact, however hydrogen may play a role
- NZ is well positioned in transport energy supply
- NZ can be a niche player in only a few areas
- NZ should take an open innovation approach to the creation and wider adoption of technology – approaches such as test beds, collaborations, prizes for technological solutions should be considered