

A comment on Day 1 Outcomes: Ralph Chapman

Steve Batstone

- With the rise in fuel prices, motorway traffic is down 3%, and MOT's light traffic report confirms that traffic is down
- There is an urgent need to understand the transport system as it is now, and where it might go
- This requires multidisciplinary research

Vince Dravitzski

- Cities are an accumulation of past activity
- Transport networks have a dominant role in urban form
- Our collective behaviours create urban form and then individual behaviours get locked in
- A key solution is to use electricity in modern urban collective transport

Patrick Farrell and Ralph Chapman

- Accessibility is a central aim of good transport and land use design
- The Wellington RLTS is essentially a 'catchup' document after 20 years falling behind
- It takes important steps to improving accessibility but is not ambitious enough, as judged by likely carbon emissions outcomes

Jean-Paul Thull

- Looked at energy minimisation for a town north of Chch --Rangiora
- A 'park and ride' scheme based around a well-sited junction on SH1 could radically reduce energy use for commuters into Chch
- Future residential development should be linked to a planning regime that conserves energy: development needs to be close to public transport

HaoboWang

- TDM policies can be grouped as soft, hard, or 'land use and transport integration'
- There is a huge amount of overseas TDM experience to draw on
- The TDM targets in the UNZTS could be achieved if a coherent package of measures is adopted

Susan Krumdieck and TACA-Sim

- Adaptation is about changing behaviour so as to preserve well-being
- TACA Sim is a research method that involves citizens in a 'game' can make data collection lower cost, rapid, etc. and above all, more attractive
- Data gathered to date suggest people can find ways to adapt – e.g. to rising fuel prices

Mike Duke

- The gains in battery energy density are tailing off

- 2/3 of trips are driver only so let's downsize cars to make them small and light
- For a fleet of 2.3 million cars, and a mixed fleet of EVs, can expect additional electricity consumption to be around 10% of current consumption

Paul Minett

- A bus needs to be ~30% full all the time to beat a carpool car with 3 people
- To get more sharing, need to make it easier to carpool
- The essence is flexibility – Hoverport is an example.

Michael Dale

- Transitionscape is a community based sustainable transport initiative in Chch
- Participatory planning, based on Transition Towns
- Involves resource mapping and planning solutions using scenarios (e.g. disrupted oil supplies)
- Responses, collated into themes, are of interest to local councils

Pete Hodgson

- Don't pick winners; keep options open
- NERI an important part of energy research landscape, in a world where bits of energy research become ghetto-ised. We need the linkages
- The Government's electricity and transport emission reduction targets are ambitious
- Ethanol from lignocellulose is coming at us faster than we thought possible: see big scale plants within ~18 months, with product at around US\$1.30 / gallon
- Implications for regional development – imagine 5 plants across NZ....

Susan Krumdieck – a thought experiment

- One policy that would change everything and begin an evolution towards sustainability in NZ transport
- Put a quota on oil imports and progressively tighten it
- It would differ from a fuel crisis in being fair, the public would be warned, and it would foster more positive innovation

Inga Smith

- CO₂e emissions from air travel matter: tourism is our biggest export
- Impact of jet CO₂ is ~twice the impact of CO₂ normally
- Accounts for ~3.5% of greenhouse forcing, but growing rapidly: 172% between 1990 and 2005
- Policy solution: likely to be a sectoral (not country target) approach.

The panel

- How to assess the energy and CO₂ footprints of new development / urban forms?
- How do we assess the need for new infrastructure and ensure it's suitable?
- How do we motivate and measure behavioural change?
- How do we learn from past transport and urban design mistakes?