

# New Zealand's Energy Performance within an International Context

#### **Transport:**



### What are the impacts of human settlements?

- Mitigation in urban areas is most effective when planning strategies and crosssectoral policy instruments are aligned to increase accessibility, promote mixed land-use, and reduce urban sprawl.
- In established cities and towns, there is potential for retrofitting existing urban forms and infrastructure to reduce building and transport emissions.

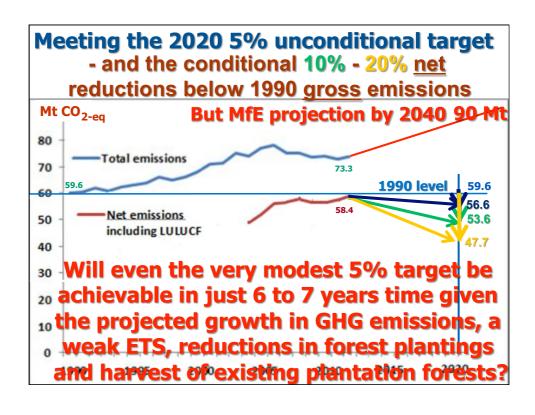
If our planet is to have any chance to stay below the 2°C agreed target level, the IPCC (2007) collective emission reduction targets for developed countries need to be:

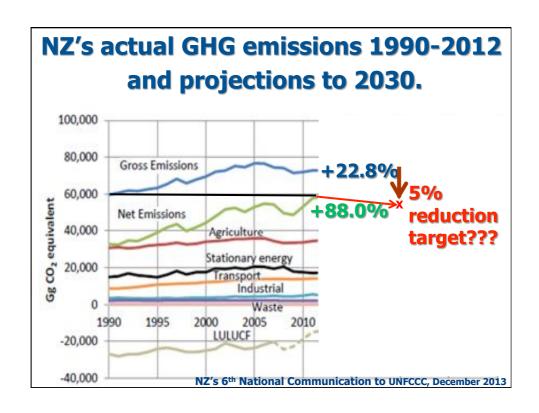
25 - 40% reduction below 1990 levels by 2020.

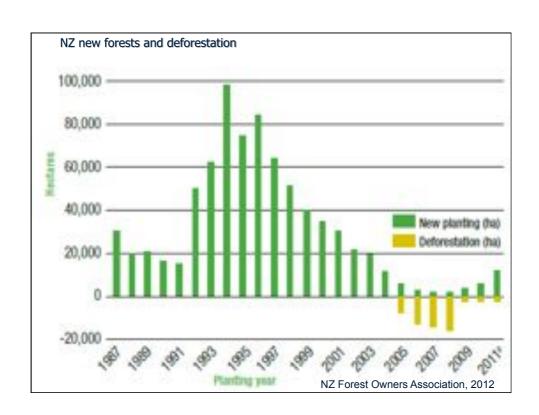
80 - 95% reduction below 1990 levels by 2050.

#### New Zealand's present targets:

- > 5% reduction below 1990 levels by 2020;
- > 10-20% net emission reduction below gross 1990 levels by 2020 but with conditions;
- > 50% reduction below 1990 levels by 2050.







#### Mitigation role for AFOLU?

- A variety of low cost, land-based mitigation
  options are outlined.
- The AFOLU sector also provides options to remove carbon dioxide from the atmosphere through afforestation, soil carbon increase, and bioenergy CO<sub>2</sub> capture and storage.
- These options play a key role in low
  - stabilization scenarios and can influence other mitigation efforts.
- Bioenergy annex: There is potenial from more bioenergy and biofuels but the total is highly uncertain due to land competition and sustainable biomass production issues.

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**Greenhouse gas emissions:** 



So what should our emission reduction targets be?