

Issue paper at

http://www.fao.org/docrep /014/i2454e/i2454e00.pdf



"ENERGY-SMART" FOOD FOR PEOPLE AND CLIMATE

ISSUE PAPER



<u>Energy</u> = <u>m</u>eals x <u>c</u>limate <u>c</u>hange



Shares of energy in Agri-food supply chain



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:

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

Meeting the 2020 target - 10% to 20% <u>net</u> reduction below 1990 <u>gross</u> emission levels MfE projection by 2040



PLUG-IN HYBRID

New Zealand trial in partnership with MASSEY UNIVERSITY TE KUNENGA KI PUREHUROA

DTOYC

Transport



Global transport emissions $\sim 22\%$ CO₂



BAU global transport demand projections compared with 2010 baseline (range 1200 scenarios)





IPCC

Private car use decreases as urban density increases.



There are three distinct travel options to consider

BRE ERS

inter-city connections; linking the suburbs; moving around the CBD.

Each option needs planning, infrastructure development, and a "vision" for future trends.

Vehicle miles travelled per year by age class in USA



Age



Attractions

Are these people happy given all the energy services they could ever need?

Or are these people happier?

For 1600 million people, provision of sustainable energy is their only hope of meeting the Millennium Development Goals.

MEN AND NATURE MUST WORK HAND IN HAND. THE THROWING OUT OF BALANCE OF THE RESOURCES OF NATURE THROWS OUT OF BALANCE ALSO THE LIVES OF MEN.

President Franklin D. Roosevelt