Post-2012 Emission Reduction Targets



Assessing what constitutes a *fair* scale of emission reductions to be achieved by individual Annex I Parties

New Zealand Presentation to AWG-KP workshop: 27 May 2009, Bonn.

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Overview

A framework to 'Assess Comparable Effort': ACE

Results from relevant international studies

Assessing Comparable Effort Interactive Support Tool: ACE-IS

Conclusions

Next Steps



thin the negotiations there is a need for a framework within whicl effort can be measured

e concept of effort being measured in terms of the costs faced by a country in meeting a specific target is widely accepted

wever, other criteria also need to be integrated, to ensure compatibility with Article 3 of the Convention.

tial presentation on this framework in Poznan (see UNFCCC)



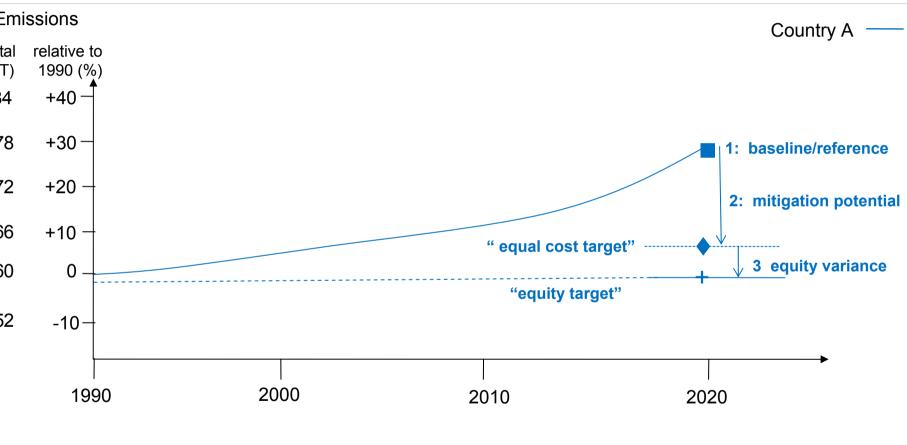
e ACE framework uses a simple three step process to assess the fairness of individual countries' targets:

Develops a 2020 baseline/reference scenario for emissions

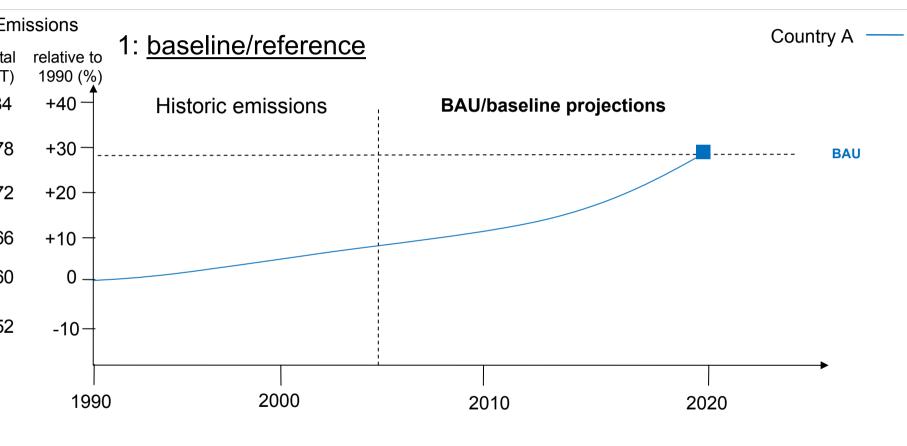
Estimates the costs of reducing emissions below this baseline

Integrates relative wealth/responsibility indicators

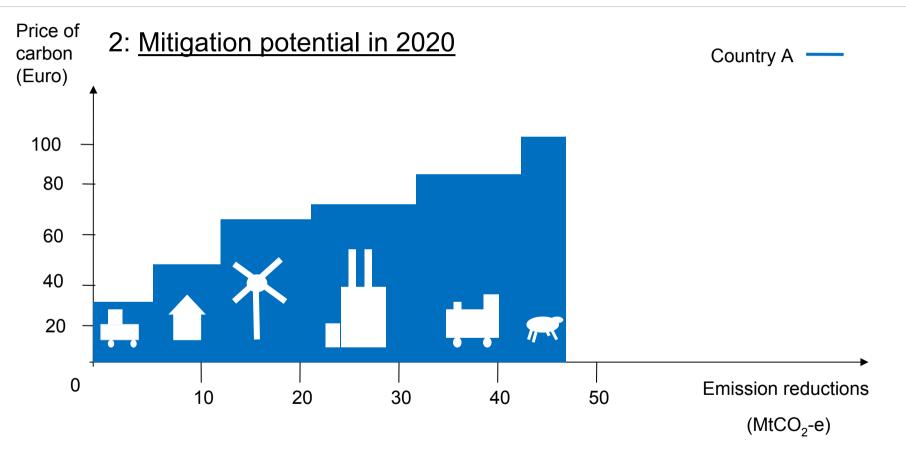




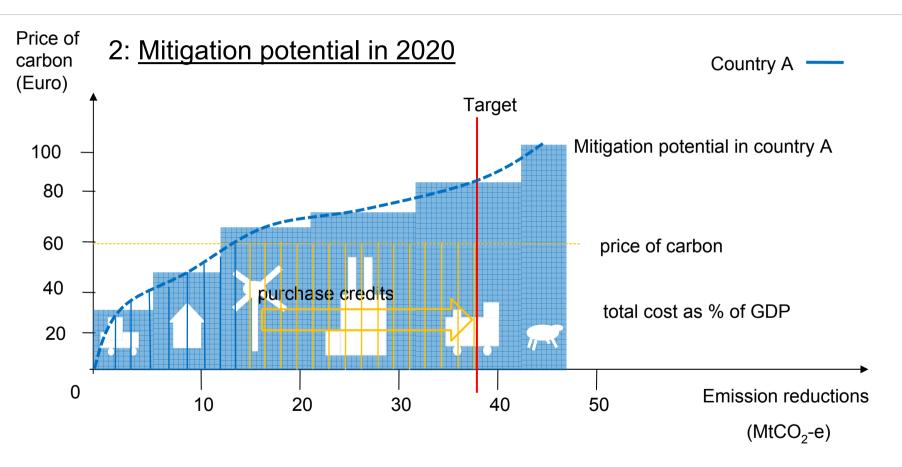




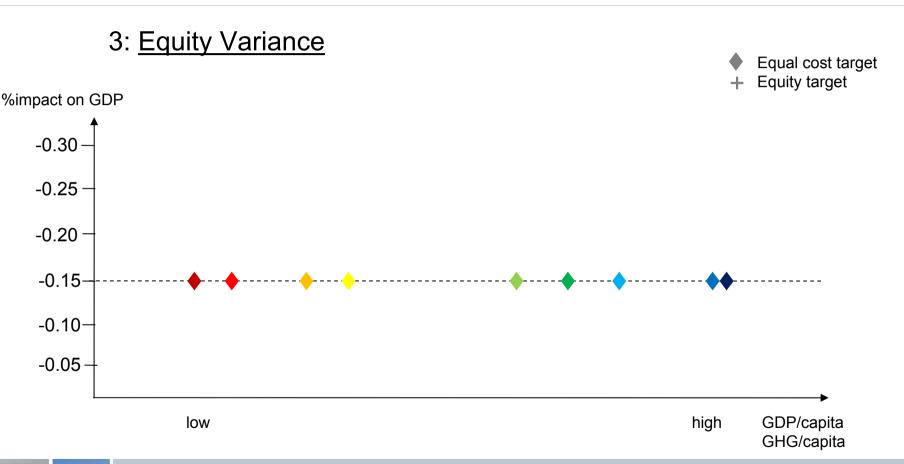




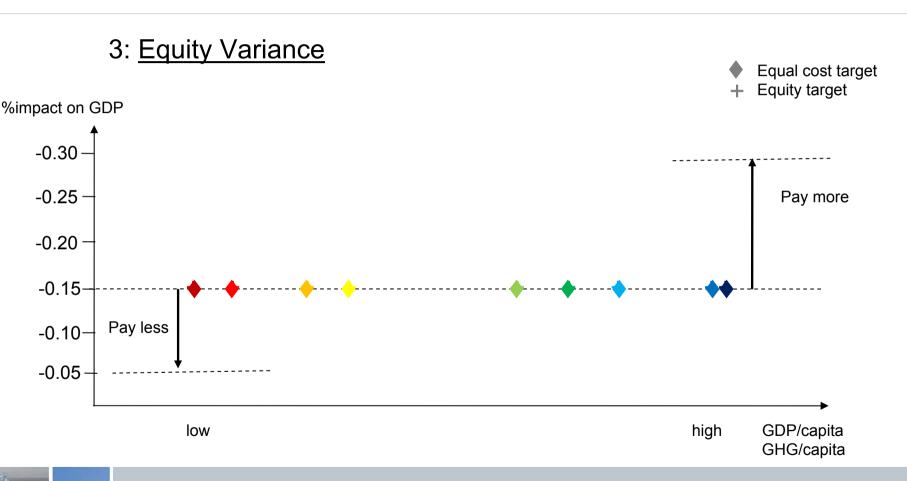




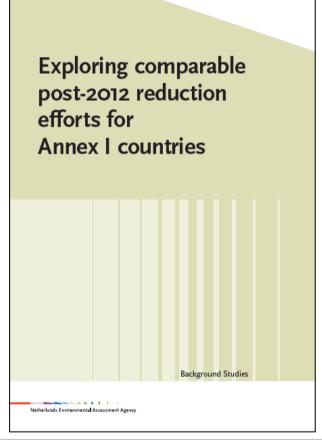








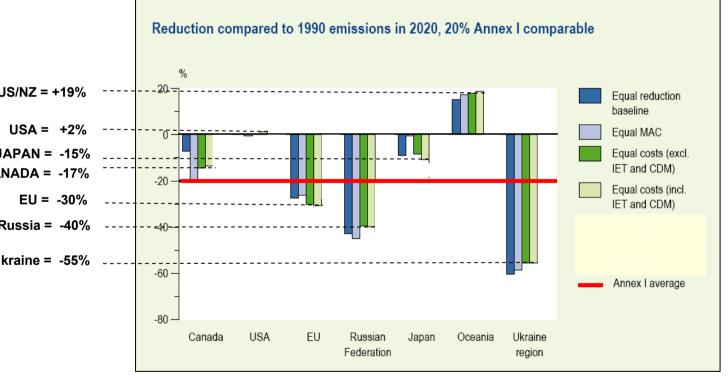
Netherlands Environmental Assessment Agency





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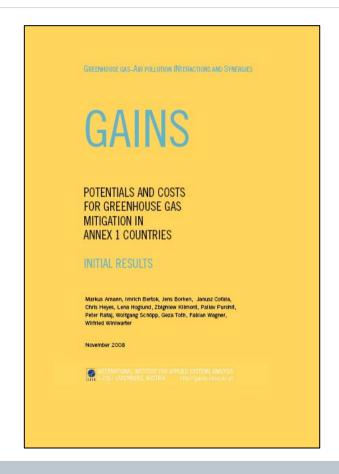
Results show a large spread of targets relative to 1990 emissions







nternational Institute for Applied Systems Analysis

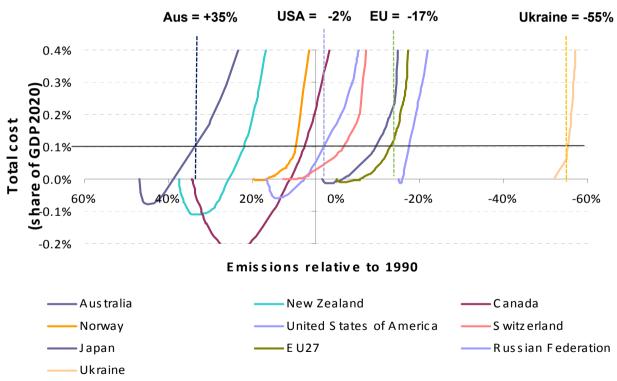






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Again, results show a large spread of targets relative to 1990 emissions

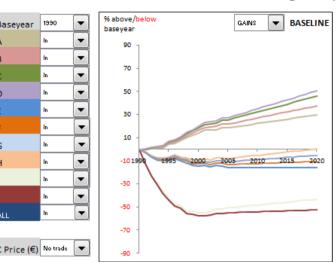


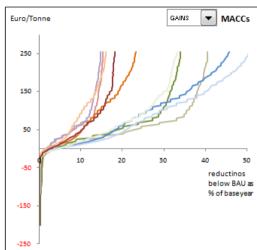


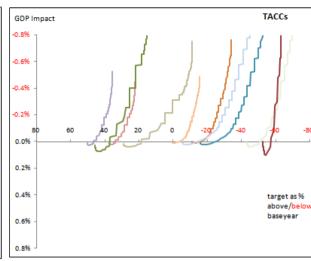
Assessing Comparable Effort Interactive Support Tool (ACE – IST)



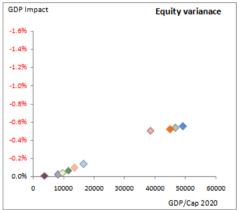
Assessing Comparable Effort - Interactive Support Tool (ACE-IST)

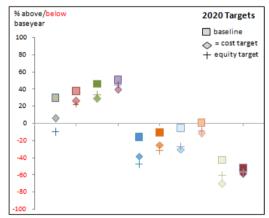








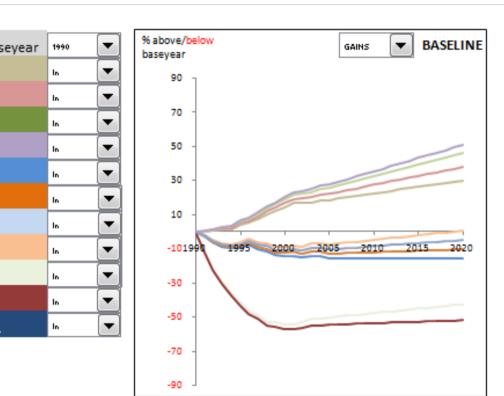


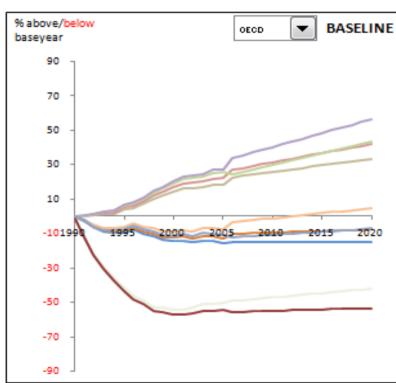


PARTY		2020 Target	percapita	% GDP	2015 Target
А	Fix	-10%	-30%	-0.54%	-0%
В	Fix	22%	-11%	-0.51%	22%
С	Fix	33%	-9%	-0.07%	31%
D	Fix	45%	-4%	-0.03%	39%
Е	Fix	-48%	-38%	-0.55%	-37%
F	Fix	-32%	-24%	-0.52%	-26%
G	□Fix	-27%	-23%	-0.14%	-21%
н	Fix	-9%	-10%	-0.10%	-9%
l .	Fix	-61%	-32%	-0.04%	-57%
J	Fix	-57%	-10%	-0.01%	-56%
TOTAL		-25%			-20%



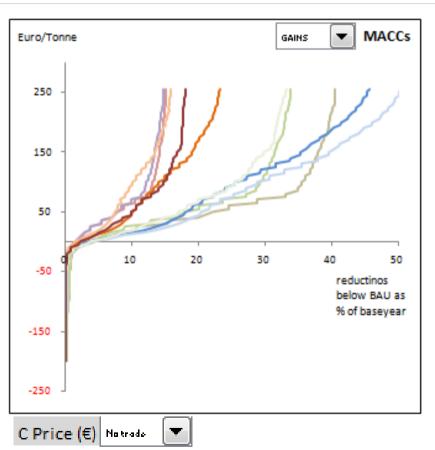
ACE-IST: Baseline

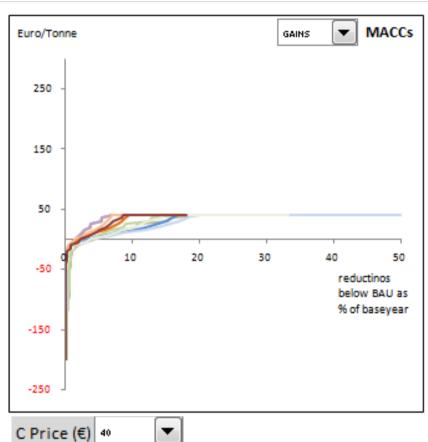






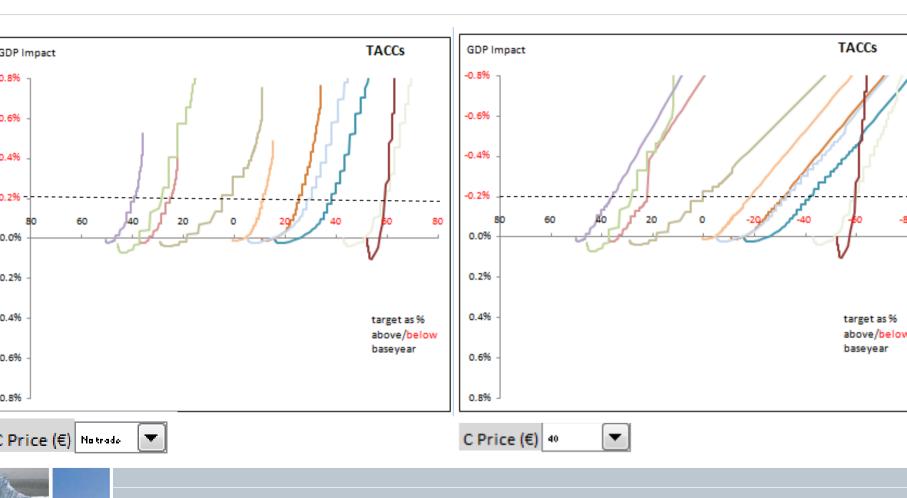
ACE-IST: Marginal Abatement Cost Curves







ACE-IST: Total Abatement Cost relative to GDP

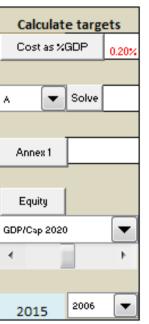


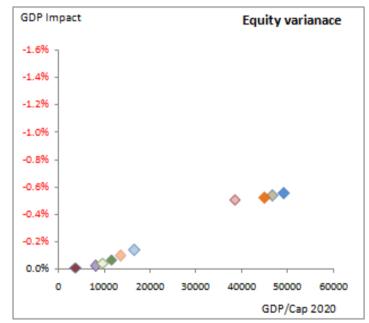
ACE-IST: Results

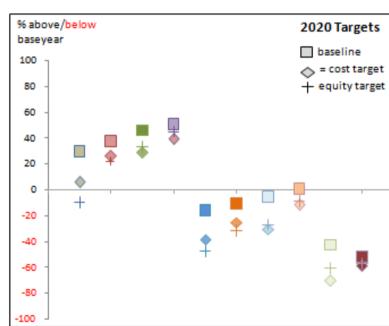
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TOTAL		-25%			-20%



ACE-IST: Results









Conclusions

- 1) Baseline emissions, relative to the base year, are a key input into determining a fair target: higher population and economic growth = less reductions relative to historic base year
- 2) The structure of an economy and domestic emissions profile are also important: *more efficient = less reductions*
- 3) Capability and responsibility need to also be taken into account: *higher GHG or GDP/capita = more reductions*



ACE-IST: Next Steps

Hope to present results from ACE-IST in June

Welcome any data on:

- i) 2020 baseline emission projections
- ii) 2020 MACCs
- iii) 2020 GDP projections

Please send this data to:

ben.gleisner@treasury.govt.nz steven.cox@maf.govt.nz amelie.goldberg@mfe.govt.nz daniel.twaddle@mfe.govt.nz



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