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## Hot topics

Monday 15 December 2008 (Updated on Friday 19 December at 12.31pm AEDT)

## **RAPID ROUNDUP: Carbon Pollution Reduction** Scheme - White Paper - experts respond

The federal government's white paper on the Carbon Pollution Reduction Scheme which outlines an emissions trading scheme for Australia was released today.

The Government has committed to a medium-term national target to reduce Australia's greenhouse gas emissions by between 5 per cent and 15 per cent below 2000 levels by the end of 2020 (equivalent of 4-14% below 1990 levels), its long-term target will be a 60 per cent reduction in greenhouse gas emissions from 2000 levels by 2050. Below, experts respond to the

Copies of the white paper are <u>available here</u>. If you have been having problems downloading the white paper, let us know as we have copies here.

Feel free to use these quotes in your stories. Further comments are expected and will be posted here, you would like to speak to an expert, please don't hesitate to contact us on (08) 8207 7415 or by email

Dr Andrew Glikson is a Visiting Fellow with the Department of Earth and Marine Sciences at ANU

"It is a good question whether the Australian government, having effectively abandoned any meaningful attempt at the arrest of accelerating climate change, would have changed its White Paper in view of rising melt rates of Arctic Sea ice, which acts as the Earth's thermostat, and which has already decreased from 8 to 4 million km2 and is projected to vanish within the next 5 years or so (http://mex.bs.co.uk/z/liviscence/nature/Tr85810 stm).

Mean temperatures over the Arctic Sea, increased by about 3C and locally by 5C over the last 4 years, Mean temperatures over the Arclic Sea, increased by about 3C and locally by 5C over the last 4 years, compared to the earlier long-term mean, heralds a new climate pattern in the northern hemisphere, including advanced melt of Greenland ice sheet over the next few decades, raising sea levels by several metres. According to Julienne Stroeve (US National Snow and ice Data Center) report to the American Geophysical Union, the process affects the temperature gradient between the Arctic and the equation and precipitation patterns. Oceanic currents and atmospheric circulation extend the effects to the Southern Hemisphere, where the western Antarcica Wilkins ice shelf has undergone mid-winter out of the control of the Contr

uangerous cultilate change, in the eyes of most, to the realm of science fiction.

It is counterintuitive, yet proven, that a rise of atmospheric CO2 by about 100 ppm raises mean global temeprature by at least 1 degrees Celsius, plus another 1 to 2 degrees C due to carbon cycle and ice melt feedbacks, pushing the atmosphere to conditions of 3 million years ago (mid-Pilicoene) when sea of the control of the c

Dr lain MacGill is a Joint Director of the Centre for Energy and Environmental Markets at UNSW

"The Federal Government announcements today regarding Australia's proposed 2020 emissions reduction target and CPRS scheme design are intended to be key components of the Government Three Pillars climate change strategy. Unfortunately what has been proposed doesn't appear suffic to achieve any of these stated objectives.

The real winners today are clearly large emilters who appear to have successfully persuaded the government to propose weak 2020 targets and provide them with billions of dollars of subsidies beyond even those proposed in the Green paper. Free permits to emilters are now expected to represent 25% or more of all emissions (35% including agriculture) increasing to 45% in 2020 and are uncapped. Coalfired generators will be freely given aimost 6% of permits over the first five years of the scheme. All of these free permits represent a lost opportunity to move financial flows towards creating a lower carbon Australian economy and addressing adverse impacts on the most vulnerable members of our community.\*

Dr Regina Betz is a Joint Director of the Centre for Energy and Environmental Markets at UNSW

The proposed 2020 targets of emission reductions of 5 to 15% are, according to the climate science, entirely inadequate for an equitable global response to avoid dangerous global warming. They are far less than the 10 to 25% emission reductions suggested in the Gamaut Review. Weak targets and a CPRS design with substantial borrowing, price caps, ongoing major subsidies to large emitters, unlimited use of what are increasingly questionable international CDM emission reduction credits and voluntary forestry opt-in mean potentially only very limited reductions in Australian emissions. Given the possible impacts of the global downturn and other policies including Australia's 20% renewable energy target for 2020 it is questionable whether any significant change of Australia's emissions intensive energy sector will be driven by the CPRS.

The proposed targets are entirely inconsistent with Australian support for an effective global solution to the climate change challenge. The targets represent less than half the emission reduction commitment of the EU for 2020 despite Australia having around two and a half times the per-capital emissions.

The free permit allocation to Energy Intensive Trade Exposed industry represents a subsidy for electricity intensive industries to stay and even establish in Australia even if there would be far lower global emissions should they move to developing countries with lower emission electricity generation from renewables and gas-fired plant."

Dr Mark Diesendorf is Deputy Director of the Institute of Environmental Studies, UNSW.

"The White Paper demonstrates the Australian Government's skill in obscuring its intentions and decisions. The greenhouse target of a 5–15% reduction in emissions by 2020 is actually a pathetically low 5% target. This is clear from the following sentence buried discreetly in Chapter 4. The lower boundary (i.e. the 15% reduction) would represent the extent to which Australia will accept tighter targets in the context of a comprehensive global agreement under which all major economits commit to substantially restrain emissions to achieve an ambitious stabilisation goal, and advanced economies take on reductions comparable to Australia's:

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Comparing emissions on a per-capita basis is justified, and any given cut is greater in per capita terms for Australia than for Europe. But we cannot forget the other half of the equation. Australia's per capita emissions levels are double that of Europe, and four times the world average. That means Australia's fair share is to cut faster than others, in per capita terms. If we pick and choose indicators to justify