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## Greenhouse emissions rise by 2pc a year

26/09/2008 12:00:00 AM

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Greenhouse gas emissions are still rising by about 2 per cent a year, according to international research conducted partly by the CSIRO.

A CSIRO carbon specialist who spearheaded the research, Pep Canadell, said Australia was unique as a developed country that had rapidly growing emission levels.

"Every year of continuing growth makes the future reduction requirement even steeper," Dr Canadell said.

Climate change adviser Ross Garnaut has called for Australia to cut emissions by 10 per cent from 2000 levels within 12 years.

Dr Canadell said Australia would have to start cutting emissions by 1.5 per cent a year to achieve that target. The research venture, titled the Global Carbon Project, found global emissions were growing at almost four times the rate they had been before 2000.

Paul Fraser, of the CSIRO's marine and atmospheric research division, said emissions were now growing by 3.5 per cent annually.

Dr Fraser said that during the 1990s they rose by 1 per cent a year.

He cited the Kyoto process as one factor in Australia's unique status as a developed country where emissions continued to rise.

Other developed nations had been told to cut their emissions but Australia was allowed to increase emissions by 8 per cent. AAP

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## Australia's greenhouse emissions rising

September 26, 2008 - 12:34PM



Australia's greenhouse gas emissions are still rising by about two per cent a year, international research conducted partly by the CSIRO has found.

Pep Canadell, a CSIRO carbon specialist who spearheaded the research, said Australia was unique as a developed country which had rapidly growing emissions.

"Every year of continuing growth makes the future reduction requirement even steeper," Dr Canadell said.

Climate change adviser Ross Garnaut has called for Australia to cut emissions by 10 per cent by 2020, based on 2000 levels.

Dr Canadell said Australia would have to start cutting emissions by 1.5 per cent a year to achieve that target.

The research project, called the Global Carbon Project, found global emissions were growing at almost four times the rate they had been before 2000.

Global emissions are rising by 3.5 per cent a year, according to Dr Paul Fraser, from the CSIRO's Marine and Atmospheric Research division.

Dr Fraser told AAP that during the 1990s, emissions rose by about one per cent a year.

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### Australian emissions still rising rapidly

Marian Wilkinson and Ben Cubby

September 26, 2008

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IN A serious setback to the Rudd Government's stated ambition to become a world leader on climate change, new global figures show Australia's greenhouse gas emissions from burning fossil fuel are continuing to rise rapidly in stark contrast to other developed countries.

"Australia's position remains unique as a developed country," said Dr Michael Raupach, a CSIRO scientist and co-chair of the Global Carbon Project which released the figures yesterday. "Since 2000 Australian fossil-fuel emissions have grown by 2 per cent per year".

This rapid rise will make it difficult for Australia to cut its emissions by 2020, even by the modest amount of 10 per cent recommended by Professor Ross Garnaut, the Government's climate change adviser.

Scientists expressed alarm at the figures, which also show global greenhouse gas emissions from burning fossil fuels have soared since 2000, largely because of economic growth in developing countries. Emissions have grown four times faster than the previous decade, exceeding the worst-case scenarios of the UN's peak scientific body, the Intergovernmental Panel on Climate Change.

India is poised to become the third biggest emitter of carbon dioxide, taking the place of Russia. The top three emitters of carbon dioxide will soon be China, the US and India.



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## Emissions cuts won't run deep: analyst

Clancy Yeates

September 26, 2008

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AN ENERGY analyst has contradicted dire warnings from the sector about the ramifications of a carbon emissions trading scheme and said it will pose little threat to Woodside's \$29 billion liquefied natural gas project at Browse.

Woodside, with the rest of the sector, has lobbied for Government assistance to cope with the introduction of any scheme and said earlier in the year that without compensation it would have to reduce spending on Browse.

But an energy analyst for JPMorgan, Mark Greenwood, said even if LNG prices halved, the likely costs of carbon trading were not enough to stop the project.

"Based on our estimate of economics for Browse, we cannot fathom why the [emissions trading scheme] alone would prevent the Browse project from being pursued vigorously by Woodside," he said in a note to investors.

Operating costs could more than double in a "bearish" scenario, with carbon priced at \$50 a tonne and oil fetching \$US50 a barrel, but the project's internal rate of return would still be economic at 13 per cent, he said.

LNG prices reflect movements in the oil price - which is now over \$US100 a barrel - and \$50 a tonne for carbon is at the upper end of the cuts suggested by the Federal Government's climate change adviser, Professor Ross Garnaut.

Woodside's chief executive, Don Voelte, is one of the most vocal critics of the proposed scheme. After the publication of a green paper on the subject in July, which did not give the sector protective assistance, Mr Voelte said Woodside would "dramatically reduce the spending on Browse in 2009 and beyond".

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## Carbon dioxide emissions continue to grow

Article from: **Herald Sun**

Font size: Email article: Print article: Submit comment:

**Peter Jean**

September 26, 2008 12:00 am

**HUMAN-generated carbon dioxide emissions are continuing to grow despite efforts by world governments to reduce carbon pollution.**

A report by the [Global Carbon Project](#) found carbon emissions had grown four times faster from 2000-07 than in the previous decade.

Almost 10 billion tonnes of carbon had been released into the atmosphere last year.

In Australia, fossil fuel emissions have grown by 2 per cent a year.

Study co-author Dr Michael Raupach, of the [CSIRO](#), said Australia would have to reduce its emissions by 1.5 per cent each year to meet a target recommended by federal government adviser Ross Garnaut.

"Every year of continuing growth makes the future reduction requirements even steeper," Dr Raupach said.

Prof Garnaut has suggested Australia reduce its emissions to 10 per cent below 2000 levels by 2010.

He is due to release his final recommendations next week on the design of a carbon emissions trading scheme.

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## China overtakes US in carbon emissions

Article from: Agence France-Presse

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*From correspondents in Paris*

September 26, 2008 10:14am

**CHINA has leapfrogged the US as the world's biggest carbon emitter and India is heading for third place, scientists say in a report that warns global greenhouse-gas levels are scaling record peaks.**

The report, by a research consortium called the Global Carbon Project (GCP), confirms an estimate that China has become the biggest producer of carbon dioxide (CO2), the principal gas that causes global warming.

Until 2005, rich countries emitted most of the world's man-made CO2. Today, developing countries now accounted for 53 per cent of the total, the GCP said.

### **In-depth: More climate change news**

"The biggest increase in emissions has been taking place in developing countries, largely in China and India, while developed countries have been growing slowly," it said.

"The largest regional shift was that China passed the US in 2006 to become the latest CO2 emitter, and India will soon overtake Russia to become the third largest emitter."

The GCP said CO2 emissions last year were the equivalent to almost 10 billion tonnes of carbon.

Fossil fuels accounted for 8.5 billion tonnes and changes to land use, mainly through deforestation, accounted for the rest.

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## Australia's greenhouse emissions rising

12:35 AEST Fri Sep 26 2008



Carbon emissions have grown fourth-fold in eight years.

**Australia's greenhouse gas emissions are still rising by about two per cent a year, international research conducted partly by the CSIRO has found.**

Pep Canadell, a CSIRO carbon specialist who spearheaded the research, said Australia was unique as a developed country which had rapidly growing emissions.

"Every year of continuing growth makes the future reduction requirement even steeper," Dr Canadell said.

Climate change adviser Ross Garnaut has called for Australia to cut emissions by 10 per cent by 2020, based on 2000 levels.

## Australia's greenhouse emissions rising

September 25, 2008 - 11:36PM



Australia's greenhouse gas emissions are still rising by about two per cent a year, international research conducted partly by the CSIRO has found.

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Climate change adviser Ross Garnaut has called for Australia to cut emissions by 10 per cent by 2020, based on 2000 levels.

Dr Canadell said Australia would have to start cutting emissions by 1.5 per cent a year to achieve that target.

The research project, called the Global Carbon Project, found global emissions were growing at almost four times the rate they had been before 2000.

Global emissions are rising by 3.5 per cent a year, according to Dr Paul Fraser, from the CSIRO's Marine and Atmospheric Research division.

Dr Fraser told AAP that during the 1990s, emissions rose by about one per cent a year.

He said Australia was unique among developed countries - in that its emissions continued to rise - partly due to the Kyoto process.

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**PAM CASELLAS**

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Friday, 26 September 2008 | 10:35 AM

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## Greenhouse gases a lot worse: study



26th September 2008, 6:00 WST

Humans added almost 10 billion tonnes of greenhouse gases last year, according to a report which shows that world carbon emissions are growing four times faster than in the 1990s.

Michael Raupach, who co-chaired the survey led by CSIRO scientists, said yesterday that Australia was the only developed country whose greenhouse emissions were still growing rapidly.

The chief executive of the Global Carbon Project, Pep Canadell, said the findings highlighted a worrying trend in light of global efforts to curb emissions.

Some experts believe the trigger for dangerous climate change will come when total atmospheric carbon dioxide levels reach 450 parts per million, raising global average temperatures by 2C and causing flooding and drought.

The report said that emissions last year took the total to 383ppm and some forecasts say that without drastic action to reverse the growth in emissions, the total looks set to hit 450ppm by 2030.

Barry Brook, a climate and sustainability researcher at the University of Adelaide, said that since 2000, national emissions from fossil fuels had grown by 2 per cent a year.

Annual cuts of 1.5 per cent were now needed if Australia was to hit the target demanded by the Federal Government's climate adviser Ross Garnaut, who has called for a 10 per cent cut, relative to 2000 levels, by 2020.

"Every year of continuing growth makes the future requirement even steeper," Dr Raupach said.

The survey showed that accelerating global emissions easily outstripped the carbon dioxide taken up by "sinks" such as oceans and forests, which were storing less carbon as a result of acidification and deforestation.



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## Fact Sheet

### Global Carbon Project figures

A factsheet detailing the 2007 data for the Global Carbon Project, a joint international project on the global carbon cycle.

The Global Carbon Project (GCP) is sponsored by the International Geosphere-Biosphere Programme (IGBP), the International Human Dimensions Programme on Global Environmental Research (IHDP), and the World Climate Research Program.

The latest figures on the global carbon budget released in Washington and Paris indicate a four-fold increase in growth rate of human-generated carbon dioxide emissions since 2000.

Key figures released include:

- ~ [Atmospheric CO<sub>2</sub> growth](#)
- ~ [Emissions from land use change](#)
- ~ [Emissions from fossil fuel and cement](#)
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#### ATMOSPHERIC CO<sub>2</sub> GROWTH

Annual mean growth rate of atmospheric CO<sub>2</sub> was 2.2 ppm per year in 2007 (up from 1.8 ppm in 2006), and above the 2.0 ppm average for the period 2000-2007. The average annual mean growth rate for the previous 20 years was about 1.5 ppm per year.

This increase brought the atmospheric CO<sub>2</sub> concentration to 383 ppm in 2007, 37 per cent above the concentration at the start of the industrial revolution (about 280 ppm in 1750). The present concentration is the highest during the last 650,000 years and probably during the last 20 million years. [ppm = parts per million].

#### EMISSIONS FROM LAND USE CHANGE

Land use change was responsible for estimated net emissions of 1.5 GtC per



Emissions of carbon dioxide from human activities have been growing about four times faster since 2000 than during the previous decade.

#### FAST FACTS

- ▶ Dr Pep Canadell, CSIRO carbon specialist, said emissions from the combustion of fossil fuel and land use change almost reached the mark of 10 billion tonnes of carbon in 2007
- ▶ Dr Michael Raupach, GCP co-Chair and a CSIRO scientist, said Australia's position remains unique as a developed country with rapidly growing emissions

#### PRIMARY CONTACT

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CSIRO Marine & Atmospheric Research  
Global Carbon Project  
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## Carbon emissions rising faster than expected: report

Posted Fri Sep 26, 2008 7:03am AEST  
Updated Fri Sep 26, 2008 10:31am AEST

**A new report has revealed a dramatic rise in the growth rate of carbon dioxide emissions since 2000.**

The report by the international Global Carbon Project (GCP) team shows a four-fold increase in the rate of emissions.

Carbon emissions from the combustion of fossil fuels and land use changes reached almost 10 billion tonnes in 2007.

CSIRO scientist and GCP executive director Dr Pep Canadell says the trend is concerning in light of global efforts to curb emissions.

"Econom[ies] have grown substantially and at the same time we've been saying we're doing all sorts of different things to address climate change and reduce emissions," he said.

"So it comes a little as a shock when you look at the measurements and compare what happened in 1990 and what has been happening in 2000 is so strikingly different."

The report found Australia's fossil fuel emissions have grown by 2 per cent each year since 2000.

Dr Canadell says despite a small dip in 2007, Australia's emissions are still rising.



The report has found Australia's emission levels are rapidly growing. (AAP Image: Dean Lewins)

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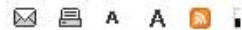
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## Australia's greenhouse emissions rising

September 26, 2008 - 12:34PM



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Australia's greenhouse gas emissions are still rising by about two per cent a year, international research conducted partly by the CSIRO has found.

Pep Canadell, a CSIRO carbon specialist who spearheaded the research, said Australia was unique as a developed country which had rapidly growing emissions.

"Every year of continuing growth makes the future reduction requirement even steeper," Dr Canadell said.

Climate change adviser Ross Garnaut has called for Australia to cut emissions by 10 per cent by 2020, based on 2000 levels.

Dr Canadell said Australia would have to start cutting emissions by 1.5 per cent a year to achieve that target.

The research project, called the Global Carbon Project, found global emissions were growing at almost four times the rate they had been before 2000.

Global emissions are rising by 3.5 per cent a year, according to Dr Paul Fraser, from the CSIRO's Marine and Atmospheric Research division.

Dr Fraser told AAP that during the 1990s, emissions rose by about one per cent a year.

He said Australia was unique among developed countries - in that its emissions continued to rise - partly due to the Kyoto

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## China, US the top carbon culprits

Article from: Reuters

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By David Fogarty in Singapore  
September 25, 2008 09:54pm

**GLOBAL carbon emissions rose rapidly in 2007, with developing nations such as China and India now producing more than half of mankind's output of carbon dioxide, the main gas blamed for global warming.**

The Global Carbon Project's annual report said carbon dioxide emissions from mankind are growing about four times faster since 2000 than during the 1990s, despite efforts by a number of nations to rein in emissions under the Kyoto Protocol.

Emissions from burning fossil fuels was a major contributor to the increase.

India would soon overtake Russia to become the world's third largest CO2 emitter, it says.

"What we are talking about now for the first time is that the absolute value of all emissions going into the atmosphere every year are bigger coming from less developing countries than the developed world," said the project's Australia-based executive director Pep Canadell.

"The other thing we confirm is that China is indeed now the top emitter," he said.

China alone accounted for 60 percent of all growth in emissions. The United States was the second largest emitter.

The project is supported by the International Council for Science, the umbrella body for all national academies of science.



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## China overtakes US in carbon emissions

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*From correspondents in Paris*

September 26, 2008 10:14am

**CHINA has leapfrogged the US as the world's biggest carbon emitter and India is heading for third place, scientists say in a report that warns global greenhouse-gas levels are scaling record peaks.**

The report, by a research consortium called the Global Carbon Project (GCP), confirms an estimate that China has become the biggest producer of carbon dioxide (CO<sub>2</sub>), the principal gas that causes global warming.

Until 2005, rich countries emitted most of the world's man-made CO<sub>2</sub>. Today, developing countries now accounted for 53 per cent of the total, the GCP said.

### **In-depth: More climate change news**

"The biggest increase in emissions has been taking place in developing countries, largely in China and India, while developed countries have been growing slowly," it said.

"The largest regional shift was that China passed the US in 2006 to become the latest CO<sub>2</sub> emitter, and India will soon overtake Russia to become the third largest emitter."

The GCP said CO<sub>2</sub> emissions last year were the equivalent to almost 10 billion tonnes of carbon.

Fossil fuels accounted for 8.5 billion tonnes and changes to

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## Global warming alert as carbon dioxide surges

Article from: **The Advertiser**

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*CARA JENKIN, ENVIRONMENT REPORTER*

September 26, 2008 06:30am

### **CARBON dioxide levels in the Earth's atmosphere have reached a new high, data shows.**

The amount of carbon dioxide emitted in 2007 was more than in 2006 and emissions this decade are growing four times faster than in the 1990s.

Two CSIRO scientists from the Global Carbon Project will today release its data to scientists in Paris and Washington.

CSIRO carbon specialist Dr Pep Canadell said the growth of carbon dioxide in the atmosphere had outstripped the growth of carbon dioxide sinks such as forests and oceans.

"This is a concerning trend in light of global efforts to curb emissions," he said.

The concentration of carbon dioxide in the atmosphere in 2007 was 383 parts per million, compared to 379 parts per million in 2005, and was the highest concentration from the past 650,000 years.

The concentration increased by 2.2 parts per million between 2006 and 2007 compared to 1.8 parts per million the year before.

University of Adelaide Climate Change Professor Barry Brook said if concentrations kept increasing at their current rate, global temperatures would increase by more than 2C by 2040.

"Emissions growth is much greater than anyone imagined a few years ago and last year's figures are confirming that emissions



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# QUEENSLAND Country Life

News → National Rural News → Agribusiness and General → General → Australian emissions still rising rapidly

## Australian emissions still rising rapidly

MARIAN WILKINSON & BEN CUBBY  
26/09/2008 6:03:00 AM

**A+** **A-**

In a serious setback to the Rudd Government's stated ambition to become a world leader on climate change, new global figures show Australia's greenhouse gas emissions from burning fossil fuel are continuing to rise rapidly in stark contrast to other developed countries.

"Australia's position remains unique as a developed country," said Dr Michael Raupach, a CSIRO scientist and co-chair of the Global Carbon Project which released the figures yesterday.

"Since 2000 Australian fossil-fuel emissions have grown by 2pc per year".

This rapid rise will make it difficult for Australia to cut its emissions by 2020, even by the modest amount of 10pc recommended by Professor Ross Garnaut, the Government's climate change adviser.

Scientists expressed alarm at the figures, which also show global greenhouse gas emissions from burning fossil fuels have soared since 2000, largely because of economic growth in developing countries.

Emissions have grown four times faster than the previous decade, exceeding the worst-case scenarios of the UN's peak scientific body, the Intergovernmental Panel on Climate Change.

India is poised to become the third biggest emitter of carbon dioxide, taking the place of Russia.

The top three emitters of carbon dioxide will soon be China, the US and India.

The new emissions figures put together by scientists from Australia, the US, France and Britain reveal that humans generated 10 billion tonnes of carbon in 2007 from the use of fuels like coal and oil, from making cement and from massive deforestation.

This put the concentration of carbon dioxide in the atmosphere at 383

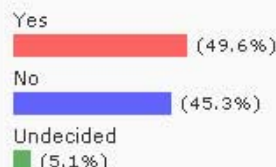


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## Carbon output four times more than in 2000: report

Published by [Stream](#) -- Sep 26, 2008 12:11pm  
Updated Sep 26, 2008 12:24pm AEST

Global carbon emissions have soared to more than four times their value during the early 2000s, a new report has found.

The Global Carbon Project says there has been a four-fold increase in the rate of emissions during the last eight years.

During this time, the GCP says many economies have boomed and are turning out significantly more emissions. On balance, about 10 billion tonnes of emissions were coming from land and fossil fuel use.

In Australia, our carbon emissions have grown by at least 2% each year since 2000.

"Economies have grown substantially and at the same time we've been saying we're doing all sorts of different things to address climate change and reduce emissions," CSIRO scientist and GCP executive director Dr Pep Canadell is quoted as saying.

"It comes a little as a shock when you look at the measurements and compare what happened in 1990 and what has been happening in 2000 is so strikingly different."

Australia is currently seeking to reduce it's carbon emissions by 60% by the year 2050.

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The United Nations says that dealing with climate change won't cost jobs, it will in fact create more.

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## Carbon output spikes dangerously

Published by **Stream** -- Sep 26, 2008 1:36pm  
Updated Sep 26, 2008 4:45pm AEST

Global carbon emissions have soared to more than four times their value during the early 2000s, a new report has found.

The Global Carbon Project says there has been a four-fold increase in the rate of emissions during the last eight years.

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Australia is currently seeking to reduce its carbon emissions by 60% by the year 2050.


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Breakfast on 666 ABC Canberra gives you everything you need to start the day - local and world news, great music and lots of laughs. From 5.35am until 9am, the Breakfast show - which includes news bulletins and AM - will ready you for your day ahead.

[More about Ross >](#)

**BREAKFAST MENU 26 SEPTEMBER**

09/26/2008

Hear something on the 666 Breakfast show this morning but can't remember what it was? You're in the right place for today's menu.

**Before 6 am** Ross kicked off the traditional AFL Grand Final sweep where you had to call in with the winner of the GF between Hawthorn and Geelong and the combined score from both teams. Winner to be announced in the program Monday.

We played some recordings of Laurence Olivier, Bert Newton and singer John Stewart as clues to today's birthday girl - which Leo correctly reckoned was Olivia Newton John turning 60. And Ross played a live recording of "The Four Yorkshiremen" by Monty Python at the Secret Policeman's ball.

**After 6am** Ross and Dan discussed with callers the relative merits, or otherwise, of hiding dead fish (and some other creatures) in a house or car by way of a practical joke. Do not try this at home.

**After 6.30** We played "3 Clues to the News" ultimately correctly identified by Ian who recognised this weeks story that Stonehenge was younger than previously thought. Sarina Locke talked about "mulesing" workshops with Monaro wool buyer Gordon Litchfield.

**From 7** Dennis Grant from the National Museum of Australia explained why it doubted the authenticity of a Boomerang said to have beloned to Captain Cook. The item had been withdrawn from a Christies auction. Tim Gavel (Hawks fan) and Ross (Cats) argued the toss over tomorrow's season decider and **Canberra based Executive Director of the CSIRO Global Carbon project Dr. Pep Canadell spoke from Washington about the latest carbon emission figures, which have increased four-fold since 2000.**

**AFTER 8.30** Commonwealth Ombudsman, Professor John Mcmillan responded to Public Service Commissioner Lynelle Briggs' assertions to a parliamentary committee that the Commission is best placed to oversee new "whistleblower" legislation. **Christain Lee, Director of the US-based PATH Malaria Vaccine Initiative spoke as a recipient of a Bill and Melinda Gates Foundation grant to**

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## Temperatures set to soar

26/09/2008 4:00:00 AM

  A+ A-

THERE was more grim news for central Victoria from the Bureau of Meteorology yesterday, with the outlook showing strong signs of hotter-than-average temperatures for the rest of the year.

The latest Bureau of Meteorology climate outlook - based on ocean temperature modelling - indicated there was more than an 80 per cent chance of exceeding the median maximum temperatures across large parts of Victoria. The news did not augur well for evaporation rates on already depleted storages, and the rainfall outlook also underlined the difficulties ahead. The bureau's latest rainfall outlook indicated mostly neutral chances of exceeding the average rainfall in northern Victoria, reducing to as little as 35 per cent the chance of above-average rain over the Divide.

ss99%lw-2Northern growers have told The Advertiser they need as much as 100mm before harvest to ensure crops flourish, but with the long-term average at less than 50mm they may have to make do with far less. Bureau climatologist Lyn Bettio said the outlook showed unusually strong indications of a warmer end of the year, with mainly near to even chances of average rain in Northern Victoria.

But she said this was also counterbalanced by the higher possibility of exceeding median minimums, reducing the risk of clear skies and even frosty nights.

Frost posed a major risk to fruit growers and vineyards in October and November as the plants flowered and bore fruit, and could also cause valuable soil moisture to evaporate. She said the outlook showed a more severe pattern of below-average rainfall in the south of the state, but these areas had experienced reasonable winters and were better equipped with some moisture in the soil.

But Ms Bettio also cautioned that the outlook did not necessarily mean individual days would reach soaring temperatures, because the median temperature was taken across the entire period and could be achieved



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Going green isn't working

Article from:

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Ursula Heger of mX
September 26, 2008 12:46pm

GLOBAL carbon emissions are continuing to rise at alarming rates despite efforts by households and governments across the developed world to go green.

Official new figures show the rate of emissions is increasing at an alarming 3.5 per cent a year - exceeding the worst-case scenarios of the UN's peak scientific body, the Intergovernmental Panel on Climate Change.

Despite years of effort to change our ways, the Global Carbon Project report shows that for the first time, humans are now emitting more than 10 billion tonnes of carbon annually.

> Read Full Story

Until we stop using fossil fuels then carbon emission reduction is just a fantasy, an expensive fantasy. When is the world going to stop using Petroleum and Coal? Well thats easy, when we run out of it!! Until then these products are the foundations of economies and they will continue to be, so no matter how many countries or do goodders try to cut emmsions one way or another we will still be coughing our way into the future. I re-iterate that the haze wont clear until the fuels run out!! SIMPLE AS THAT, wake up people of earth!!!

Posted by: Paul of Brisbane 2:27pm today
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## Going green fails to stem rise in global carbon emissions

Article from:

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Ursula Heger of mX  
September 26, 2008 12:45pm

**GLOBAL carbon emissions are continuing to rise at alarming rates despite efforts by households and governments across the developed world to go green.**

Official new figures show the rate of emissions is increasing at an alarming 3.5 per cent a year - exceeding the worst-case scenarios of the UN's peak scientific body, the [Intergovernmental Panel on Climate Change](#).

Despite years of effort to change our ways, the Global Carbon Project report shows that for the first time, humans are now emitting more than 10 billion tonnes of carbon annually.

And the emissions are accelerating, having already increased over the past eight years at four times the rate in the 1990s.

[Green blog: Inconvenient truth of Rudd's clean coal plan](#)

The biggest problems have come from the developing world, which now accounts for more emissions than rich nations.

**China has overtaken the US as the world's biggest carbon emitter**, two years earlier than expected and India is set to relegate Russia to fourth place within a year.



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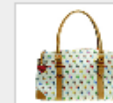
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## China, US the top carbon culprits

Article from: Reuters

Font size: Email article: Print article:

*By David Fogarty in Singapore*  
 September 25, 2008 09:54pm

**GLOBAL carbon emissions rose rapidly in 2007, with developing nations such as China and India now producing more than half of mankind's output of carbon dioxide, the main gas blamed for global warming.**

The Global Carbon Project's annual report said carbon dioxide emissions from mankind are growing about four times faster since 2000 than during the 1990s, despite efforts by a number of nations to rein in emissions under the Kyoto Protocol.

Emissions from burning fossil fuels was a major contributor to the increase.

India would soon overtake Russia to become the world's third largest CO2 emitter, it says.

"What we are talking about now for the first time is that the absolute value of all emissions going into the atmosphere every year are bigger coming from less developing countries than the developed world," said the project's Australia-based executive director Pep Canadell.

"The other thing we confirm is that China is indeed now the top emitter," he said.

China alone accounted for 60 percent of all growth in emissions. The United States was the second largest emitter.

The project is supported by the International Council for Science, the umbrella body for all national academies of science.

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## Emissions rising faster since 2000

Monday, 29 September 2008

CSIRO

The latest figures on the global carbon budget to be released in Washington and Paris today indicate a four-fold increase in growth rate of human-generated carbon dioxide emissions since 2000.

"This is a concerning trend in light of global efforts to curb emissions," says Global Carbon Project (GCP) Executive-Director, Dr Pep Canadell, a carbon specialist based at CSIRO in Canberra.

Releasing the 2007 data, Dr Canadell said emissions from the combustion of fossil fuel and land use change almost reached the mark of 10 billion tonnes of carbon in 2007.

Using research findings published last year in peer-reviewed journals such as *Proceedings of the National Academy of Sciences*, *Nature* and *Science*, Dr Canadell said atmospheric carbon dioxide growth has been outstripping the growth of natural carbon dioxide sinks such as forests and oceans.

The new results were released simultaneously in Washington by Dr Canadell and in Paris by Dr Michael Raupach, GCP co-Chair and a CSIRO scientist.

Dr Raupach said Australia's position remains unique as a developed country with rapidly growing emissions.

"Since 2000, Australian fossil-fuel emissions have grown by two per cent per year. For Australia to achieve a 2020 fossil-fuel emissions target 10 per cent lower than 2000 levels, the target referred to by Professor Garnaut this month, we would require a reduction in emissions from where they are now by 1.5 per cent per year. Every year of continuing growth makes the future reduction requirement even steeper."

The Global Carbon Project (GCP) is a joint international project on the global carbon cycle



Emissions of carbon dioxide from human activities have been growing about four times faster since 2000.

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## Australian emissions still rising rapidly

MARIAN WILKINSON & BEN CUBBY  
26/09/2008 6:03:00 AM



In a serious setback to the Rudd Government's stated ambition to become a world leader on climate change, new global figures show Australia's greenhouse gas emissions from burning fossil fuel are continuing to rise rapidly in stark contrast to other developed countries.

"Australia's position remains unique as a developed country," said Dr Michael Raupach, a CSIRO scientist and co-chair of the Global Carbon Project which released the figures yesterday.

"Since 2000 Australian fossil-fuel emissions have grown by 2pc per year".

This rapid rise will make it difficult for Australia to cut its emissions by 2020, even by the modest amount of 10pc recommended by Professor Ross Garnaut, the Government's climate change adviser.

Scientists expressed alarm at the figures, which also show global greenhouse gas emissions from burning fossil fuels have soared since 2000, largely because of economic growth in developing countries.

Emissions have grown four times faster than the previous decade, exceeding the worst-case scenarios of the UN's peak scientific body, the Intergovernmental Panel on Climate Change.

India is poised to become the third biggest emitter of carbon dioxide, taking the place of Russia.

The top three emitters of carbon dioxide will soon be China, the US and India.

The new emissions figures put together by scientists from Australia, the US, France and Britain reveal that humans generated 10 billion tonnes of carbon in 2007 from the use of fossil fuels like coal and oil, from making cement



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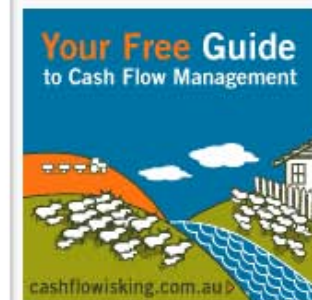
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## Blowing cold and hot

Written by **Michael McDonald**  
 Tuesday, 30 September 2008

Those mega-sexy folk known as geologists ([www.gsa.org.au](http://www.gsa.org.au)) have recently been having a chat about Neoproterozoic Extreme Climates – as you do. There's nothing like a look at geological time to put your own concerns – and the status of the human race – into perspective.

Apparently 750-550 million years ago, a long time before the dinosaurs and even the Liberal Party, ice covered the planet. This is known as Snowball Earth, which has a Christmasy feel to it, though probably not for the primitive, multi-cellular lifeforms who had yet to hear of a certain rabbi a few hundred million years into the future, or as the sharemarket pundits put it, 'going forward'.

Earth being the wanton woman that she is, in between dolling up as a snow dome she threw in tropical climate, leading Associate Professor Stephen Gallagher, who gave the Selwyn Lecture on the subject last week, to describe it as one of 'the most important and enigmatic episodes in Earth's history'. Apart from Malcolm Turnbull smoking dope in his youth and still ending up as Malcolm Turnbull, of course. 'A key question for scientists today is how these primitive lifeforms not only survived the extremely hostile temperatures of Snowball Earth's ice age periods, but actually seemed to thrive during the wild fluctuations from ice age to tropical conditions and back to ice age,' says Prof Gallagher. It's thought the extreme cold might have provided a kickstart to evolution, perhaps the way hypothermia can sometimes help repair the body's immune system when fighting disease or trauma – that's my speculation, not the good professor's.

Insights into climate, as with all good scientific research, are essential for humans 'going forward' in dealing with its extremes. It's particularly relevant with the other news last week that indicates a four-fold increase in the growth rate of human-generated carbon dioxide emissions since 2000.

This is the conclusion from the Global Carbon Project ([www.csiro.au/resources/GlobalCarbonProjectFigures.html](http://www.csiro.au/resources/GlobalCarbonProjectFigures.html)). Emissions from the combustion of fossil fuel and land use change almost reached the mark of ten billion tonnes of carbon in 2007.

According to Dr Michael Raupach, GCP co-chair and a CSIRO scientist, 'Since 2000, Australian fossil-fuel emissions have grown by two per cent per year. For Australia to achieve a 2020 fossil-fuel emissions target ten per cent lower than 2000 levels, the target referred to by Professor Garnaut this month, we would require a reduction in emissions from where they are now by 1.5 per cent per year. Every year of continuing growth makes the future reduction requirement even steeper.'

We as a nation have a pretty shabby record in terms of wasting resources and contributing to the forces which bring about climate change. It seems it will need a kickstart of geological proportions to have politicians, and humans in general, regard the thin layer of atmosphere which shields our planet from the eternal refrigerator of outer space – minus 737 degrees Celsius on a good day – as worthy of protection. And then, five billion years from now, the Sun explodes.

– Michael McDonald, editor

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### Expert: Australia has tough task as emissions continue to rise

Asia-Pacific News

Sep 26, 2008, 3:02 GMT

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Sydney - With Australia's greenhouse gas emissions still rising by 2 per cent a year, it's going to be difficult for one of the world's biggest per-capita emitters to meet even the most modest reduction target, a leading climate change scientist said Friday.

'Australia's position remains unique as a

Ads by Google developed country,' Michael

Raupach told The Sydney Morning Herald. 'Since 2000, Australian fossil fuel emissions have grown by 2 per cent a year.'

Raupach, who is with the government's Commonwealth Scientific and Industrial Research Organisation research institute, said Australia's emissions were growing at double the rate of the 1990s.

Prime Minister Kevin Rudd brought Australia into line with most developed countries

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Thursday, October 2, 2008

### Carbon budget 2007

Source: Global Carbon Project

"Australian scientists delivered bad news to the world on Australia's growing CO2 emissions last week. Global carbon project (GCP) executive director Dr Pep Canadell, a carbon specialist based at CSIRO in Canberra and Dr Michael Raupach, GCP co-chair and also with CSIRO, said GCP data for 2007 showed "anthropogenic CO2 emissions have been growing about four times faster since 2000 than during the previous decade".

Posted by library@EPA at 11:42 AM

Labels: [Climate change](#), [Greenhouse gases](#)

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## Growth rate of carbon emissions increasing

News Article - Friday, September 26, 2008

filed under: Industry

The global [carbon emissions measurement](#) is continuing to get higher, according to research from the Global Carbon Project (GCP).

At the end of last year, atmospheric CO2 concentrations were 383ppm, meaning the speed of growth is around four times what it was before 2000, despite the Kyoto Protocol and effort to improve [corporate social responsibility](#).

The GCP is a collection of academics in the field of climate from Europe and America.

"This new update of the carbon budget shows the acceleration of CO2 emissions and atmospheric accumulation are unprecedented and most astonishing during a decade of intense international developments to address climate change," said Dr Pep Canadell, GCP executive director.

However, a further move which will see additional [carbon emissions reporting](#) for businesses was voted for by the EU environment committee.

Despite pressure from the German manufacturing industry, helped by the chancellor, Angela Merkel, all new cars in the union will be required to cap emissions from 2012.

The manufacturers had been hoping to phase in the caps between 2012 and 2015.

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## The Global Carbon Project Release Recent Figures for the Worlds' Carbon Budget

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Decreasing forest cover, almost exclusively from deforestation in tropical countries, was responsible for an estimated 1.5 billion tons of emissions to the atmosphere above what was gained through new plantings. Although the oceans carbon uptake was expected to rise with the higher atmospheric concentration of CO<sub>2</sub>, in 2007 it was reduced by a net 10 million tons.

Natural land and ocean CO<sub>2</sub> sinks, which have removed 54% (or 4.8 billion tons per year) of all CO<sub>2</sub> emitted from human activities during the period 2000-2007, are now becoming less efficient. While the size of these sinks continues to grow in response to greater concentrations of CO<sub>2</sub> in the atmosphere, they are losing efficiency as feedbacks between the carbon cycle and climate increase.

Posted September 25th, 2008

Today the new Global Carbon Budget was launched simultaneously by [Global Carbon Project](#) co-chair Michael Raupach in France at the Paris Observatory, and in the USA at Capitol Hill, Washington by GCP Executive Director Pep Canadell.

The Global Carbon Project posted the most recent figures for the worlds' carbon budget, a key to understanding the balance of carbon added to the atmosphere, the underpinning of human induced climate change. Despite the increasing international sense of urgency, the growth rate of emissions continued to speed up, bringing the atmospheric CO<sub>2</sub> concentration to 383 parts per million (ppm) in 2007.

Anthropogenic CO<sub>2</sub> emissions have been growing about four times faster since 2000 than during the previous decade, despite efforts to curb emissions in a number of Kyoto Protocol signatory countries. Emissions from the combustion of fossil fuel and land use change reached 10 billion tones of carbon in 2007. Natural CO<sub>2</sub> sinks are growing but slower than the atmospheric CO<sub>2</sub> growth, which has been increasing at 2 ppm since 2000 or 33% faster than the previous 20 years.

Dr. Pep Canadell, executive director of the Global Carbon Project said "This new update of the carbon budget shows the acceleration of both CO<sub>2</sub> emissions and atmospheric accumulation are unprecedented and most astonishing during a decade of intense international developments to address climate change."

Emissions growth for 2000-2007 was above even the most fossil fuel intensive scenario of the Intergovernmental Panel on Climate Change (SRES-IPCC). While the developing nations of China and India continue to increase emissions, China has improved the carbon intensity of their economy since 2005, based on data from the National Energy Administration in China.

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**EXCLUSIVE: It's official, we're losing climate change battle**

Friday 26 Sep 08 9:00am

The world is losing the battle against climate change, with global carbon emissions rising sharply last year, a hard-hitting scientific paper due out today will show.



Dr Michael Raupach, co-chair of the Global Carbon Project, told Carbon News today that mankind needs to move to the equivalent of a war footing if it is to have any chance of combating the major consequences of climate change.

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New Zealand

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Greenhouse gas pollution up despite economic downturn

Tuesday 30 Sep 08 9:00am

World carbon dioxide emissions continued to rise in 2007 despite a slowing global economy, according to energy use figures from oil company BP and an annual report by the Global Carbon Project.

BP's figures show emissions jumped to 8.47 billion tonnes, or 2.9 per cent higher than last year's total. Leading the charge was the US, up nearly 2 per cent to 1.58 billion tonnes, and China, up more than 7 per cent to 1.8 billion tonnes.



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Millions of new jobs in green economy, says UN report (Tuesday)

**Greenhouse gas pollution up despite economic downturn** (Tuesday)

US states auction off right to emit global warming pollution (Tuesday)

New Zealand



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## New information released suggests faster rising sea levels

Posted at 23:13 on 28 September, 2008 UTC

Scientists say fast-rising sea-levels are likely to hit Pacific Island countries sooner rather than later.

The latest study on levels of carbon dioxide in the earth's atmosphere suggest emissions have kept on rising.

Predictions of the effects of climate change are based on projected increases in CO<sub>2</sub>.

A lead member of the International Carbon Project, Professor Corinne Le Quéré, says the trend makes the worst global warming scenario more likely.

[“We have just published the figures for CO<sub>2</sub> emissions for the entire world for 2007, and what we see is CO<sub>2</sub> emissions have gone up again. They are now following the emissions scenario, of the highest emissions that have been used to project climate change this century. We are now on the path of the highest scenario, meaning that the global warming projections that have been made for the end of the century, if we continue to follow the high scenario, then we're at the top range of these projections.”](#)

Professor Le Quéré says ice sheets in Antarctica and Greenland are on track to melt, pushing up sea levels by at least a metre a year or more.