

# EUROPEAN ENVIRONMENTAL BUREAU

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**EEB**

European  
Environmental  
Bureau

Getting  
the grids  
for 1.5 degrees

a citizens' perspective on the  
Ten Year Network Development Plan

13 Nov 2018

# Global warming must not exceed 1.5C, landmark UN report warns

**Jonathan Watts**

*Global environment editor*

In a stark new warning, the world's leading climate scientists have said that global warming must be kept to a maximum of 1.5C to lessen the risks of drought, floods, extreme heat and poverty for hundreds of millions of people.

The authors of the landmark report by the UN Intergovernmental Panel on Climate Change released today say urgent and unprecedented changes

are needed to reach this target, which is affordable and feasible although it lies at the most ambitious end of the Paris agreement's pledge to keep temperature rises between 1.5C and 2C.

The half-degree difference could

**Inside**

*'If we act decisively, and innovate and invest wisely, we could avoid the worst impacts of climate change'*

**Nicholas Stern** *Page 13*



also prevent corals from being completely eradicated and ease pressure on the Arctic, according to the 1.5C study, which was launched in Incheon, South Korea, after approval at a final plenary of all 195 countries that saw delegates hugging one another, with some in tears.

"It's a line in the sand and what it says to our species is that this is the moment and we must act now," said Debra Roberts, a co-chair of the working group on impacts. "This is the largest clarion bell from the science

community and I hope it mobilises people and dents the mood of complacency."

Huge obstacles remain. Policy makers commissioned the report at the Paris climate talks in 2016, but since then the gap between science and politics has widened. Donald Trump has promised to withdraw the US - the world's biggest source of historical emissions - from the accord.

The world is currently 1C warmer than pre-industrial levels. Following devastating



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**Energy industry**

## World has no capacity to absorb new fossil fuel plants, warns IEA

UNIDENTIFIED



Jodie Whittaker begins her first series of Doctor Who after more than half a century of males in the role

## United Nations calls for unprecedented change to avoid climate catastrophe

**JOSH GABBATISS**

*SCIENCE CORRESPONDENT*

Coral reef extinction, Arctic ice disappearance and the destruction of entire island communities can only be

averted if the world sticks to its most ambitious global warming target. A landmark UN report, which is published today, has concluded that enormous and rapid changes to the way everyone on Earth eats, travels and produces

energy is needed to avert climate catastrophe. Drawing on more than 6,000 scientific studies and compiled over two years, the striking findings are now expected to set the agenda for the world's climate action for decades to come.

# HALTING CLIMATE CHANGE MEANS DOING THINGS DIFFERENTLY

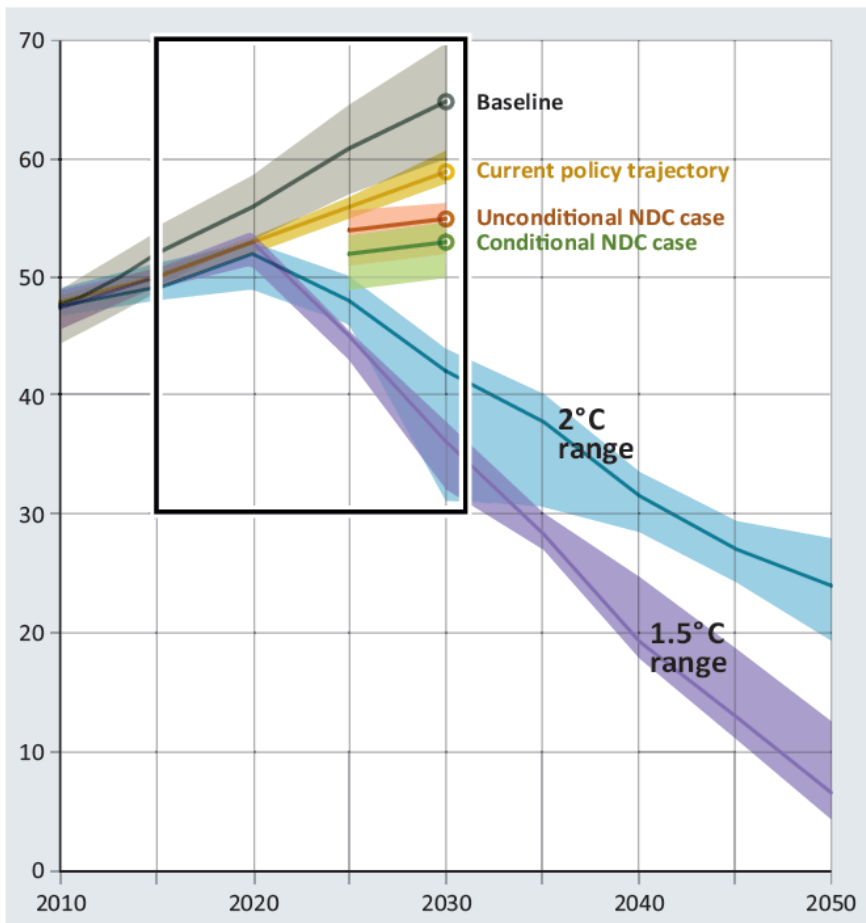
We cannot cheat the atmosphere:  
science gives us the reference points

Current Paris pledges leave world on path > 3  
degree Celsius (confirmed by SR 1.5)

92% of EU citizens see climate change as a  
serious problem (2017 Eurobarometer)

→ We need a global increase of ambition with  
the EU in a leadership role

**The future is a world different  
from the past**



# WAY FORWARD

## Getting the grids we need

### Objectives



### Actions

***Stay within 1.5°C***

*EU 2010-2015 €13.3 bn climate damage (EEA)*

***Maintain highest possible likelihood (66%);***

*mitigation costs increase by 40 percent for each decade of delay*

***Accept our historical responsibility***

***Get everyone on the same page:***

*Storyline and modelling workshops in 2019-2020*

***Understand the means and limits:***

*Grid needs, Inertia, efficiency potentials, share of H2 in gas network, etc.*

***Develop Paris-compatible TYNDP***

*Let's talk RES roll-out, storage, phase-out, behavior, innovation...*

REN21, RGI, CAN Europe, EEB with interest from ENTSO-E and ENTSO-G as nucleus and starting point for other stakeholders



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