

# Global warming outpaces efforts to slow it: UN

November 27 2018, by Marlowe Hood

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Scientists say climate change will make wildfire, like those that devastated large swathes of northern California last month, more intense and more frequent

Humanity is falling further behind in the race against climate change, with the gap between greenhouse gas emissions and levels needed to

achieve the Paris climate treaty temperature goals continuing to widen, the UN said Tuesday.

With only a single degree Celsius of warming so far, the world has seen a crescendo of deadly wildfires, heatwaves and hurricanes.

On current trends, temperatures are on track to rise roughly 4C by the century's end, a scenario that would tear at the fabric of civilisation, scientists say.

To cap global warming at two degrees Celsius (3.6 degrees Fahrenheit), national carbon-cutting pledges annexed to the 2015 Paris Agreement must collectively triple by 2030, according to the UN Environment Programme's (UNEP) Emissions Gap report.

To hold the rise in Earth's temperature to 1.5C above the preindustrial benchmark, such efforts would have to increase fivefold.

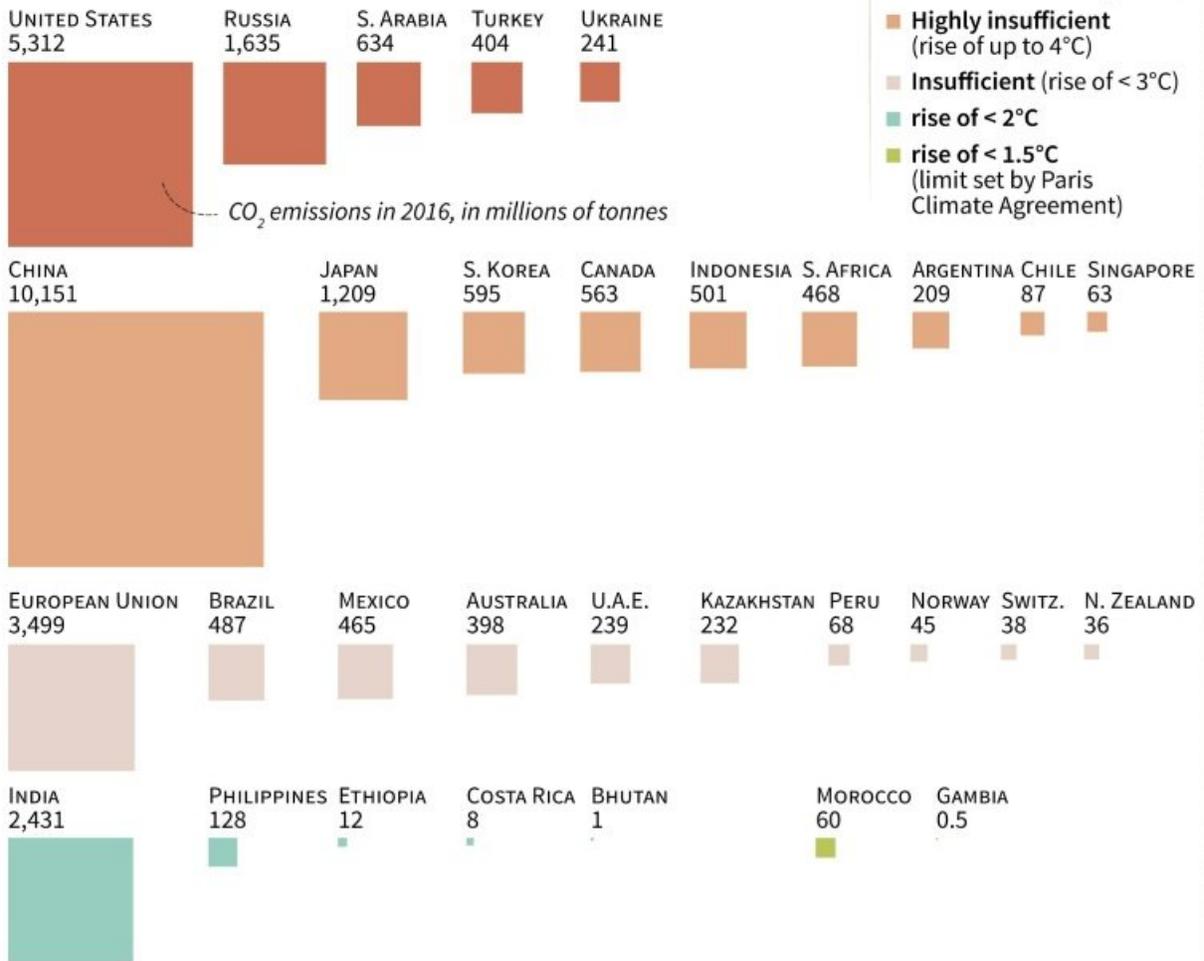
"The emissions gap is much bigger than last year," UNEP's Philip Drost, one of several coordinators for the annual report's ninth edition, told AFP.

One obvious reason was a spike last year in the quantity of carbon dioxide, methane and other planet-warming gases escaping into the atmosphere.

This trend is set to continue in 2018, which saw a jump in CO<sub>2</sub> emissions from the [energy sector](#), according to the International Energy Agency, as well as an increase in the atmospheric concentration of CO<sub>2</sub>.

## Doing enough to combat climate change?

Assessment of commitments by selected countries



Source: Climate Action Tracker

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Assessment of selected countries' CO<sub>2</sub> emissions and efforts to combat climate change

But the gap between where we are and where we need to be also grew on paper: new calculations by the UN's top science panel sharply reduce the real-world potential for drawing CO<sub>2</sub> out of the air, whether by planting more trees or capturing and storing CO<sub>2</sub> emitted by power plants.

## 'Chasing the bus'

More broadly, the Intergovernmental Panel on Climate Change (IPCC) special report released last month concluded that 2C of warming—once seen as a safety guardrail—would in fact usher in a maelstrom of deadly extreme weather.

Taken together, rising emissions and revised projections on CO<sub>2</sub> removal have widened the emissions gap by 15 percent for a 2C world, and by nearly 70 percent for the 1.5C target, according to the new report.

The news comes despite breakneck growth in solar and wind power, gains in energy efficiency, and climate action by business and [local governments](#), said Andrew Steer, president and CEO of the Washington DC-based World Resources Institute.

"We are chasing a bus"—[climate change](#)—"and we are going faster and faster, setting new world records," he said by phone.

"But the bus is accelerating even faster, and the gap is increasing."



The world is currently on course for a global warming of four degrees Celsius, which will cause widespread drought

Momentum is most lacking at the national level, the report suggested.

"Governments really need to look at their Nationally Determined Contributions (NDCs) and increase their ambition," said Drost.

Boosting carbon-cutting efforts is high on the agenda at UN climate talks starting next week in Katowice, though host country Poland has let it be known that its top priority is finalising the "rulebook" for the Paris Agreement, which enters into force in 2020.

## Carbon budget

But upping ambition will be a tall order given that most major economies are not even on track to achieve their current pledges.

The United States, the world's second biggest carbon emitter, will miss its target badly, as will Australia, Canada, South Korea, Mexico and Turkey.

The European Union, Japan, Brazil and South Africa will also fall short. Top emitters China and Russia are both on track, but mostly because their goals were so modest to begin with.



Climate change is blamed for a rise in disasters such as the hurricane that struck

North Carolina in September 2018

The Emissions Gap report's projections are based on estimates of how much carbon humanity can emit into the atmosphere—known as the "carbon budget"—without breaching the 2C or 1.5C ceiling.

To cap [global warming](#) at 2C, annual emissions in 2030 will need to stay under 40 billion tonnes of CO<sub>2</sub> or its equivalent (GtCO<sub>2</sub>e).

In 2017, total [greenhouse gas emissions](#) hit 53.5 GtCO<sub>2</sub>e.

If the target is 1.5C, the gap becomes a chasm: by 2030, carbon emissions must be lowered to no more than 24 billion tonnes per year, nearly one-and-a-half-times lower than they would be even if Paris promises are kept.

Written and reviewed by 100 climate scientists and experts, the annual, 100-page analysis tracks progress towards achieving the Paris treaty goals.

Under Donald Trump, the United States has abandoned its greenhouse gas goals and vowed to quit the Paris Agreement.

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