# **News in focus**

China produces from renewable and nuclear sources, from just 16% today to 80% by 2060. Solar and wind capacity are planned to reach 1,200 gigawatts by 2030 – enough to power hundreds of millions of households – and 80 gigawatts of hydropower will be installed over the next decade.

Carbon capture and sequestration technologies will also be important to achieving China's goals, according to the documents, and could be another focus for researchers. There is also a plan for electric and hybrid vehicles to make up 40% of those sold by 2030. Much more detail is expected to come in future documents, say researchers.

### **Global ramifications**

Despite this rush of activity towards net zero in China, some researchers are still disappointed with the commitments the country has made so far.

At the COP26 meeting, the nation signed a joint declaration with the United States to find steeper cuts, but frustrated some scientists by not offering more-aggressive pledges for the next decade, and also by pushing for text concerning coal in the final agreement to be

edited from 'phased out' to 'phased down'.

China's promises so far are not likely to keep global warming to below  $1.5\,^{\circ}\mathrm{C}$  — the more aspirational of the targets set by world governments at the United Nations Paris climate meeting in 2015 — says Yan Qin, an economist and carbon analyst based in Oslo with Refinitiv, a company that provides data on financial markets. "What has been pledged falls short," she says.

China has also not yet set any absolute limits on emissions, nor targets for emissions of greenhouse gases besides carbon, such as methane, but has committed to doing both. Researchers say these measures will be crucial for the world to have a chance at limiting global warming to below  $1.5\,^{\circ}\mathrm{C}$ .

China's size means its pledges have global ramifications, says Pep Canadell, chief research scientist at the Australian government's CSIRO Climate Science Centre in Canberra. "When China moves a little to the left or the right, up or down, the whole world feels it."

And He says that although China's goals are not as ambitious as some would like, they are at least realistic. "What China should do is sometimes not what China can deliver," he says.

European research institutions have also hit the press since 2018, "indicating that these issues involving senior women extend well beyond the MPG", the letter says, using the German acronym for the society. It stresses that the signatories do not endorse tolerance of bullving.

The fallout from the many cases could be

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grave, the letter argues. "Highly publicized failures of women at top level positions in science could have a chilling effect on young women considering careers in science and engineering," it says.

Boivin was accused of bullying young scientists and appropriating scientific ideas of colleagues. The protracted internal investigation began in October 2018, but was accelerated this autumn. On 22 October, Boivin was demoted from her position without advance notice. She remains in charge of a smaller research group.

# MAX PLANCK SOCIETY'S TREATMENT OF WOMEN LEADERS QUESTIONED

Open letter signed by 145 female scientists from across the world expresses concern over dismissals.

### By Alison Abbott

group of 145 leading female scientists has signed an open letter to Germany's Max Planck Society (MPS), expressing concern over "the highly publicized dismissals, demotions, and conflicts involving female directors of Max Planck Institutes".

The MPS is Germany's most powerful basic-research organization, with 86 institutes and research facilities. In the past three years, at least four of the most senior researchers at these institutes — called directors — have been charged with bullying, three of them women.

"Female leaders are judged more harshly, and allegations of leadership shortcomings are more often made against female leaders than male ones," states the letter. It calls on the society to check its personnel statistics to determine whether women are over-represented among those who have left their positions before retirement or faced sanctions or demotions.

A spokesperson for the MPS rejects the charges of gender bias in the letter, and says that its investigations into research misconduct "are generally conducted by persons who are neutral, objective and independent".

### **Archaeologist demoted**

The letter was sent to all the MPS's senate members on 18 November, a day before a senate meeting was due to consider the most recent case – the demotion of archaeologist Nicole Boivin from her position of director at the Max Planck Institute for the Science of Human History in Jena, which she had held for five years.

"This case prompted our letter," says physicist Ursula Keller at the Swiss Federal Institute of Technology (ETH) in Zurich, who was one of the letter's instigators. "But we know the problem is much wider than the Max Planck, and we want the issue to be discussed in the community."

Similar cases involving women in top academic positions at several other major

## **Decision challenged**

Boivin denies all charges and is challenging the Max Planck decision in court. An injunction ruling is expected on 3 December, which would allow her to continue as director until the court case is settled.

The case has proved controversial. Many Max Planck scientists have also written to the society to express their concern over the procedure. This includes two letters from groups of postdocs and PhD students at Boivin's institute, expressing their support for her and challenging the fairness of the investigation.

Nobel prizewinner Christiane Nüsslein-Volhard, a director at the Max Planck Institute for Developmental Biology in Tübingen, has also written a letter calling on the senate to reverse the decision. Only 54 of the society's 304 directors are women, and such cases will make it hard to encourage more female scientists to join, she writes. "One must conclude that there are still deep-seated, unacknowledged prejudices against women in leadership positions, that the leadership behaviour of women directors is measured by different, [harsher] standards than that of men," she writes.

MPS spokesperson Christina Beck told *Nature* that the confidential investigation was neutral and objective. In 2018, the society introduced leadership training for directors that includes unconscious-bias training, she says.