

# Global warming can weaken wind power, a study predicts

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Because before, clean energy sources like wind farms are the key to addressing climate change. But recent studies show something very different. Global warming will significantly reduce wind power through the northern central latitude, including the United States, Britain and the Mediterranean region. However, some places, including Eastern Australia, will see strong winds. This is the first global study, talking about the effect of temperature rise on wind energy.



Research has found that there will be major changes by the end of the century in many places containing a large number of power-producing turbines. According to a new study published recently in the journal Nature Geoscience, future climate change may cause wind resources to fall across the Northern Hemisphere.

For example, in Central America, wind power may drop by nearly a fifth. Although these findings do not rule out wind as a source of renewable energy, researchers suggest that energy planners must take into account future climate when making long-term strategies for recycled energy. Wind energy accounts for only 3.7% of global energy consumption today, but global wind energy is growing rapidly. It is growing about 20% a year.

In the most recent study, researchers used a set of international climate modeling results to assess changes in wind energy resources globally. The research team then used an energy curve model from the wind power industry to transform the forecast of wind, atmospheric density and global temperature to estimate the potential for wind energy production. .

Wind energy will take from the center of the United States to Britain, Russia and Japan, including countries with medium and high emissions. If the carbon dioxide emissions continue to be high, wind energy sources may decrease in the northern hemisphere's latitudes and increase in the Southern Hemisphere and the tropics by 2100. Thus, climate change may affect the global wind model. One reason is that the wind on the planet also receives different levels of solar radiation. The result is different levels of atmospheric pressure around the planet, affecting how air flows from one place to another in the world. Therefore, scientists are well aware that global temperature changes can affect the air flow around the planet. This may have a major impact on the amount of wind turbines that produce electricity. For example, the Midwestern United States has hundreds of wind farms with tens of thousands of wind turbines. The new study shows that wind power production in the region for the next 20 years will be at the same level as today, but by the end of the century it will fall.

In contrast, potential wind energy sources in Eastern North Australia may increase significantly due to temperature changes. However, the reasons for this decline and increase are not the same. Hotter temperatures in the Northern Hemisphere may also be due to the temperature difference between the northern cold zone and the heat chain, and the lower temperature zone means that the wind works more slowly in the central latitude region. North. Similar reduced wind resources may occur in Japan, Mongolia and the Mediterranean at the end of this century. The reason coastal areas will see increased wind energy is that the world's land is heating up faster than the ocean and that difference is the energy source for those winds to exist. The warmer the soil will increase the wind in that area.

New research results will help policy makers around the world make informed decisions about where to invest in this clean energy technology.

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