



# Grassland Wind Power Generation





## Overview

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Wind farms, usually built in wild lands like grassland, may cause damage to the initial ecosystem and biodiversity. However, the impact of wind farms on the functional diversity of plant communities remains a subject with unclear outcomes. Deployment of wind energy is an essential renewable energy source that mitigates climate change and reduces air pollution [1]. In this study, we chose 108 sample plots and identified 10. To investigate this issue, we selected wind farms in 6 meadow grasslands and 6 typical steppes in the central region of Inner Mongolia, the province with the largest scale of grassland wind power operations in China. At these sites, we conducted field sample surveys to obtain species information.



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### [Carbon footprint and carbon emission intensity of grassland wind ...](#)

In this study, the carbon footprint of the production, transportation, construction, operation, and disposal stages was evaluated by using the life cycle assessment method in a 49.5 MW wind ...

### [Impact pathways of wind farms on grassland carbon and water cycles](#)

In recent years, with the rapid development of the wind power industry, the ecological impacts of wind farms (WFs) have received increasing attention. Although previous studies have ...



### [Land use impacts the environmental benefits of wind energy farms in](#)

Here we used life cycle assessment (LCA) to explore the land-use impacts on GHG emissions and energy performance for three typical wind farms located in forest, grassland and desert



### [Observed Impacts of Large Wind Farms on Grassland Carbon Cycling](#)

Deployment of wind energy is an essential renewable energy source that mitigates climate change and reduces air pollution [1]. Over the last several decades, wind energy development has increased ...



### Observed impacts of large wind farms on grassland carbon cycling

To dive into detailed mechanisms of the wind farm impacts on local environments, we require more public datasets in terms of the wind turbine information (e.g., construction time, nominal ...



### Wind Power Increases the Plant Diversity of Temperate Grasslands ...

We aimed to explore the effects of wind power operation on the grassland community composition of both types of grasslands and the relationship between changes in community composition and plant ...



### Wind Power Increases the Plant Diversity of Temperate Grasslands ...

To investigate this issue, we selected wind farms in 6 meadow grasslands and 6 typical steppes in the central region of Inner Mongolia, the province with the largest scale of grassland wind ...



### Wind farms reduce grassland plant community diversity and lead to ...



Wind farms, usually built in wild lands like grassland, may cause damage to the initial ecosystem and biodiversity. However, the impact of wind farms on the functional diversity of plant communities ...





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