

# Environmental Assessment of Wujiang Suofengying Power Plant

Why do power plants have a weighted degree of environmental impact?

In other words, if an environmental impact is caused by a variable that has many relationships in the framework, the weighted degree will be higher, so the impact is strongly defined by the sizing variables of the power plants and the mitigation of these impacts is generally more difficult.

Why do thermal power plants need an environmental impact assessment?

The thermal power plants are also said to emit large amount of mercury and generate large quantity of fly ash which destroys the surrounding environment. These plants also consume a large amount of water. Due to these problems, they require a proper Environmental impact assessment before commencement of the project.

Do PV power plants reduce vegetation in China?

The PV power plants in China are more likely to be installed in suitable natural conditions but with low power demand or in areas with high local energy demand. We also found that installing PV power plants will generally decrease the vegetation. Our dataset is conducive to policy management and environmental assessment.

Does China's continuous emission monitoring system measure emissions from power plants?

This study is the first to develop an inventory of particulate matter (PM), SO<sub>2</sub> and NO<sub>x</sub> emissions from power plants using systematic actual measurements monitored by China's continuous emission monitoring systems (CEMS) network over 96-98% of the total thermal power capacity.

Do large-scale power plants have environmental impacts?

This means that the impacts of power plants can be mapped and minimized before construction begins, even in the design phase. This research assesses the environmental impacts of large-scale power plants for wind, hydro, geothermal, solar and biomass power.

Are China's power plants reducing emissions?

Tang,L. et al. Substantial emission reductions from Chinese power plants after the introduction of ultra-low emissions standards. *Nature Energy* 4,929-938 (2019). Tang,L. et al. Iron and steel industry emissions and contribution to the air quality in China. *Atmos. Environ.* 237,117668 (2020). National Bureau of Statistics.

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