

## SolarTech Power Solutions

# Czech Industry and Information Technology Bureau communication base station wind power



## Overview

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Why is wind power not being developed in the Czech Republic?

The development of wind power is being prevented primarily for economic and political reasons even though the potential for producing cheap, clean power from wind in the Czech Republic is enormous. We can look to Austria and Poland for examples.

How many wind turbines can we build in the Czech Republic?

For comparison, the output of all 200 wind power plants in the Czech Republic is just 352 megawatts. According to a study by David Hanslian of the Institute for Atmospheric Physics at the Academy of Sciences, we could build as many as 1,400 wind turbines with an installed output of 7,000 megawatts in the Czech Republic by the year 2040.

Why is Czech wind power lagging?

At first glance, the reason the development of Czech wind power is lagging might seem clear: Compared to Denmark, the Netherlands or Poland, we have no coast, nor do we have expansive enough lowlands with the appropriate constancy and force of wind flow to take advantage of wind turbines full-time.

What is the rated capacity of a wind power plant?

The rated capacity around 4 MW is achieved when the wind speed is around 13 m/s, so called start-up wind speed is 3 m/s. The wind energy industry is really environmentally friendly. It does not produce solid or gas emissions or exhaust heat, there is no burden of waste storage, it does not need water for its operation.

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