

## SolarTech Power Solutions

# Cost price of wind power for mobile base station power supply



## Overview

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How much does wind energy cost?

Other sources recently noted that the LCOE generated from wind is now below USD 0.068/kWh (€0.050/kWh) for most of the projects in high resource areas (United States , Brazil, Sweden, Mexico) (Cleantechica, 2011). This compares to current estimated average costs of USD 0.067/kWh for coal-fired power and USD 0.056/ kWh for gas-fired power.

Why do wind turbines cost so much?

A detailed analysis of the United States market shows that the installed cost of wind power projects decreased steadily from the early 1980s to 2001, before rising as increased costs for raw materials and other commodities, coupled with more sophisticated wind power systems and supply chain constraints pushed up wind turbine costs (Figure 4.10).

What is the average cost of capital for a wind power project?

The analysis in this section assumes that the average cost of capital for a project is 10%. However, the cost of debt and the required return on equity, as well as the ratio of debt-to-equity varies between individual projects and countries. This can have a significant impact on the average cost of capital and the LCOE of a wind power project.

How much does onshore wind cost?

Reductions in average O&M costs for onshore wind are also possible, with wind turbine manufacturers increasingly competing on warranties and O&M agreements. Recent analyses estimate the LCOE from onshore wind power projects to be USD 0.06 to USD 0.11/kWh (Lazard 2009).

What is the LCOE of a wind power system?

The principal components of the LCOE of wind power systems include capital costs, operation and maintenance costs and the expected annual energy

production (Figure 6.1). Assessing the cost of a wind power system requires a careful evaluation of all of these components over the life of the project.

Who pays for a wind farm transmission system upgrade?

For example, in some regimes, it is the transmission system operator that bears the cost of any transmission system upgrade required by the connection of a wind farm, in other regimes, the wind farm owner will be required to pay for these costs.

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