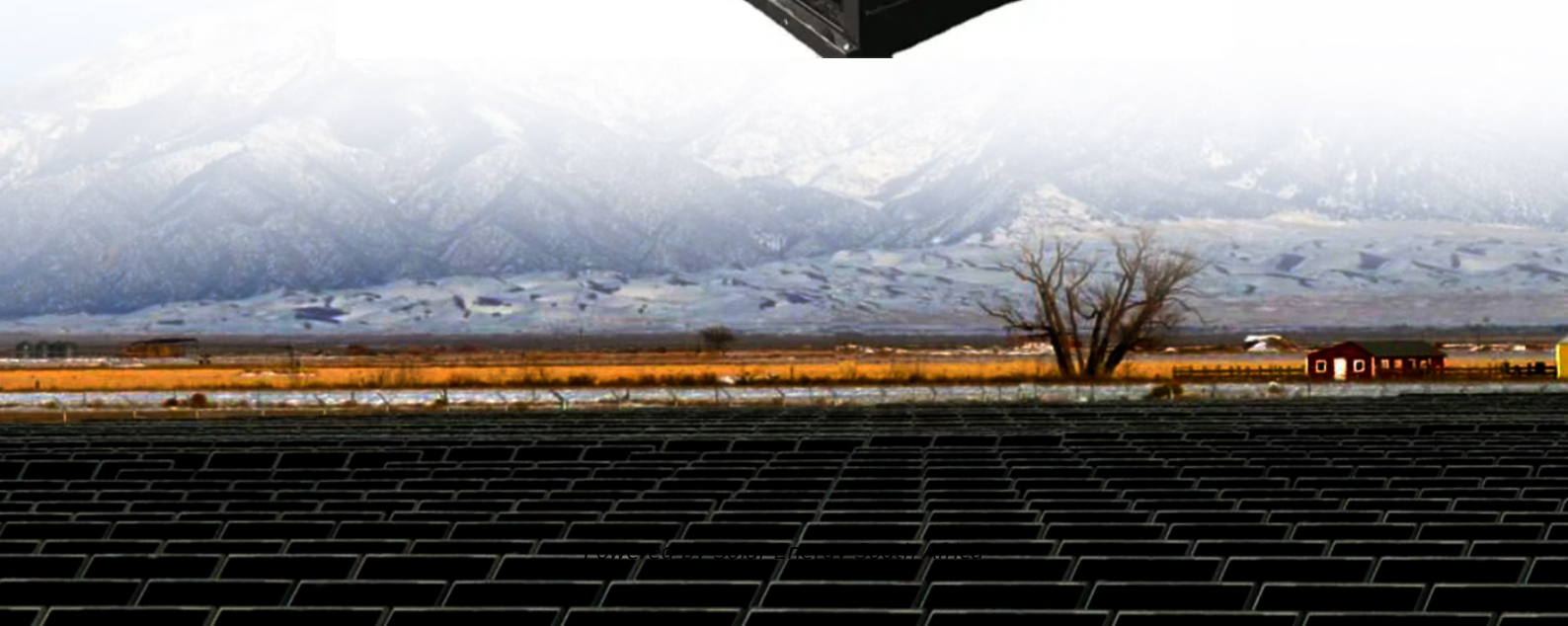


## Solar Energy South Africa

# Wind turbine generator evaluation report sample



## Overview

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What should be included in a wind turbine Assessment Report?

The assessment report for a wind turbine installation should provide turbine and tower recommendations that meet site and owner requirements. It is also recommended to discuss replacing existing natural gas, propane, or fuel oil appliances with electric appliances if the wind turbine can be sized to serve those loads.

What should a small wind site assessment report include?

A small wind site assessment report should include recommendations on suitability of the site, best locations for installation, and appropriate turbine and tower options. In many cases, the report may conclude that the site is not suitable for a wind generator, and in such cases, supporting information should be provided.

Can a site assessor assess a building-integrated wind generator?

For a building-integrated wind generator, a site assessor should avoid conducting an assessment. Given the complications, turbine size, performance, and project economics must relate to the customer's energy needs and expenditures.

Is it necessary to do a wind resource assessment?

When deciding between locations on a property, sites with higher elevations and fewer obstructions are considered superior for wind resource assessment. Not doing a wind resource assessment, as in the Bassetti case, resulted in a successful installation; however, it comes with high levels of uncertainty regarding the turbine's performance at a particular site.

What should be included in a wind turbine specification?

A wind turbine specification should include estimated tree growth for the 20+ year life of the wind system. Although the minimum acceptable height is

mentioned, the report should consider the economics of higher towers to provide more energy. This specification may also include a preliminary financial analysis based on typical installed costs in a site assessment.

Where can I find a report on wind turbines?

This report is available at no cost from the National Renewable Energy Laboratory (NREL) at <https://www.nrel.gov/wind/one-of-the-largest-constraints-to-permitting-large-wind-turbines-can-be-avoiding-interference-with-air-traffic-weather-radar-and-military-operations.html>. One of the largest constraints to permitting large wind turbines can be avoiding interference with air traffic, weather radar, and military operations.

## Wind turbine generator evaluation report sample

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### High Voltage Solar Battery



### the diagram below shows the design for a wind ...

The diagram shows wind turbine work and optimum locations. The wind turbine is a large man-made structure and the machine consists of a generator, a sensor, steel tower, and computer-info from sensor adjustments. In the first ...

### Evaluation of wind turbine power outputs with and ...

This paper analyses importance of including wind direction (WD) as an additional explanatory variable to the wind speed (WS) for evaluating uncertainty in wind turbine (WT) power output (P out) ing available ...



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