

# Wind Turbine Information Sheet (2)

## What is a kilowatt (kW)?

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The power from your wind turbine is measured in kilowatts. This is harder to understand because it is invisible.

A kilowatt is 1,000 watts (w). To understand what this means, think of an ordinary electric light bulb.

## **What is a megawatt (mW)?**

One megawatt equals 1,000,000 watts. This is enough energy to power 10,000 light bulbs at the same time.



Wind Turbines vary in design, size and the amount of electricity they produce. **Your school turbine shown in the picture generates 2.5 kilowatts (kW).**

There are much smaller turbines that can be used to provide power for a house.

Wind Turbines can be much bigger than the school turbine. The one shown in the picture is 45m high with a 52m diameter rotor.

This turbine produces 1 megawatts (mW) of electricity. This is **400** times more power than the school turbine!

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The light bulbs you have in your house are usually 60w for table lamps and 100w for more powerful ceiling lights.

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Measures like millimetres and meters are easy to understand, because you can see them

It is also easy to understand measures like grams and kilograms, because you can feel them

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**One kilowatt is enough energy to power ten, 100 watt  
bulbs.**

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This large wind turbine generates 1 megawatt, so it can power 10,000 light bulbs. That is 4 bulbs for every house in Seaton

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This is a picture of a Rolls-Royce Industrial Trent jet engine. It produces 58 megawatts.

**58 mW is equal to:**

58 large wind turbines

**or**

Approximately 21,000 school wind turbines