

PRODUCT SHEET

VIRTUAL MEASURING MASTS GIVE YOU A QUICK ANSWER REGARDING THE BEST LOCATION

A virtual measuring mast helps those designing wind power plants to quickly find the best location and height for optimal production, either on land or at sea, anywhere in Europe.

With our virtual measuring masts you will know quicker, and with a higher degree of certainty, where to conduct your measurements and construct your wind power plant. The results are based on calculations made with a completely new and unique wind model.

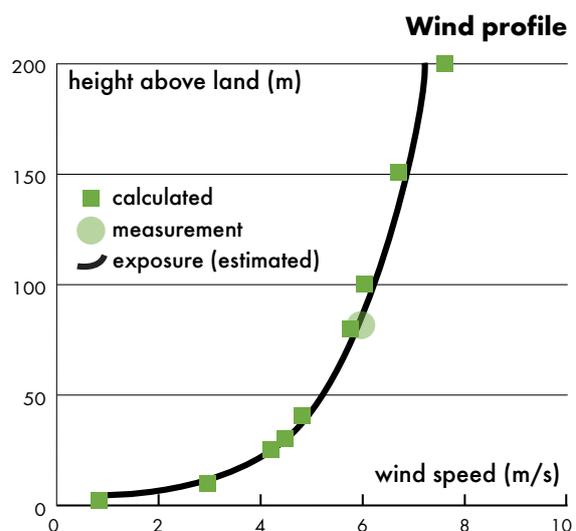
FAST INFORMATION REGARDING YOUR LOCATION

The virtual measuring mast gives you information regarding the speed, direction and energy content of the wind at the specific height that you are interested in. Horizontal resolution is normally 500-1,000 metres, but this can vary. The vertical resolution may also vary, however typical is every couple of metres nearest the ground, with a gradually decreasing distance upwards. The results are presented in the form of a series of time values of optional length. The virtual measuring masts also reduce the need to have several actual measuring masts in larger wind farms.

NEW, UNIQUE WIND MODEL PROVIDES NEW OPTIONS

Our new, unique wind model is based on our own, cutting-edge models for meteorology and climatology. The new model produces position and height-specific data calculated from 15 year-long series of historical model data and location-specific measuring data. The model also takes into account temperature variations due to height, the roughness of the land and the type of terrain, something that has not previously been possible.

This gives a high degree of accuracy where that the calculations agree very well with the actual situation.



The graph shows a wind profile with a high degree of correlation between the measured values and the calculated values at a height of 0-200 m.

Example	Average wind speed (m/s)
Measurements, 80 metres above land	5.9
Calculations, 80 metres above land	5.8

For more information please contact:

Per Råhnängen
 tel +46 31 751 89 40
 e-mail per.rahnangen@smhi.se

Helen Ivars
 tel +46 11 495 82 20
 e-mail helen.ivars@smhi.se