



Numerical weather forecasts supporting the Renewable Energy Sector (RES) in Poland

Joanna Wiczorek¹, Bogdan Bochenek¹, Jakub Jurasz², **Adam Jaczewski**¹, Marta Gruszczynska¹, Mariusz Figurski¹, Andrzej Mazur¹, and Tomasz Strzyzewski¹

¹ Institute of Meteorology and Water Management - National Research Institute

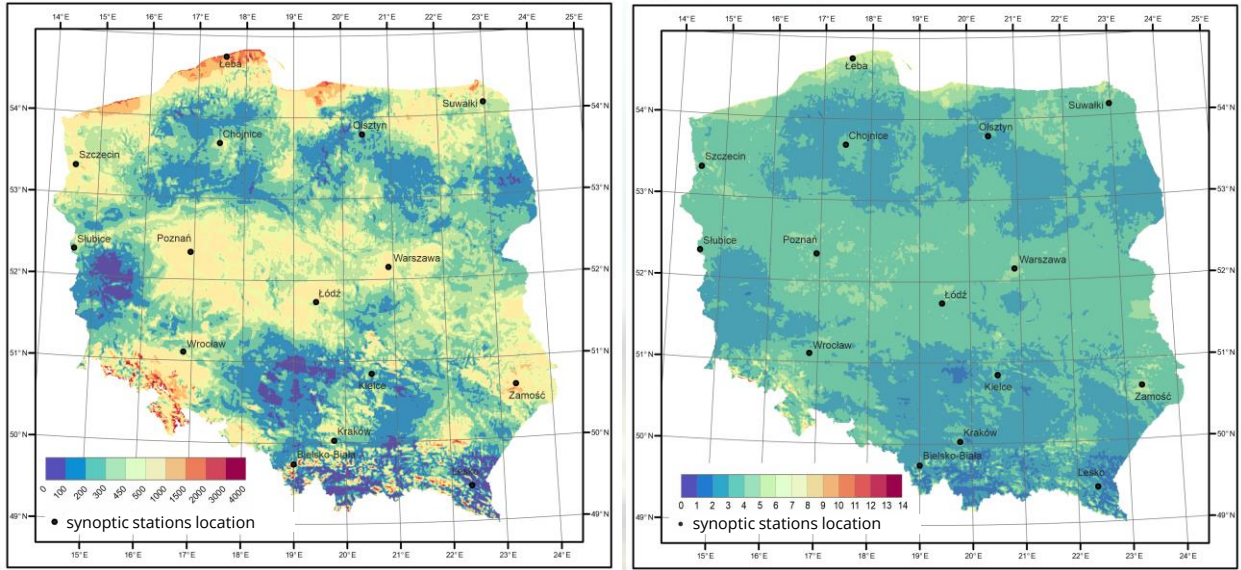
² Wrocław University of Science and Technology



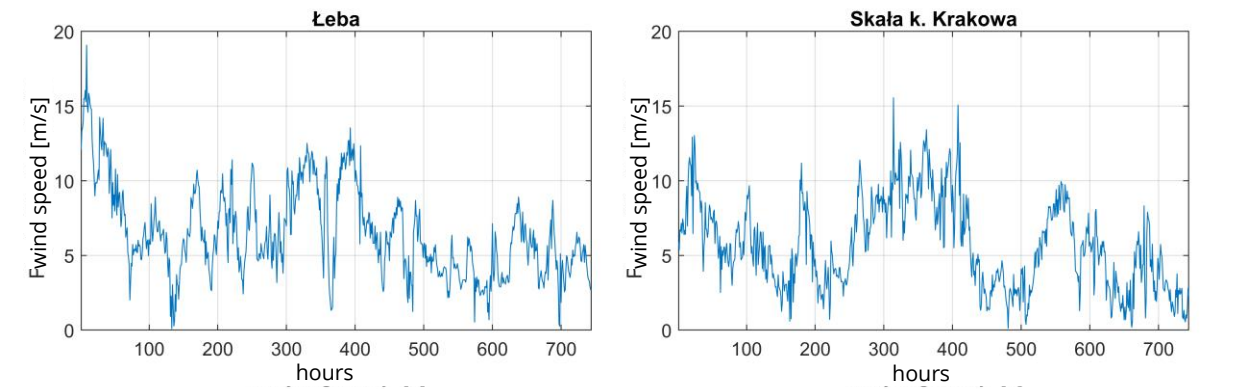
METEO
IMGW-PIB
meteo.imgw.pl

Modern digital Atlas of Small-scale Wind Power for Poland (AMEW-PL)

Average annual total useful wind energy (left) and wind speed (right) at 10 m a. g. l. based on INCA-PL2 reanalyses for 2019.

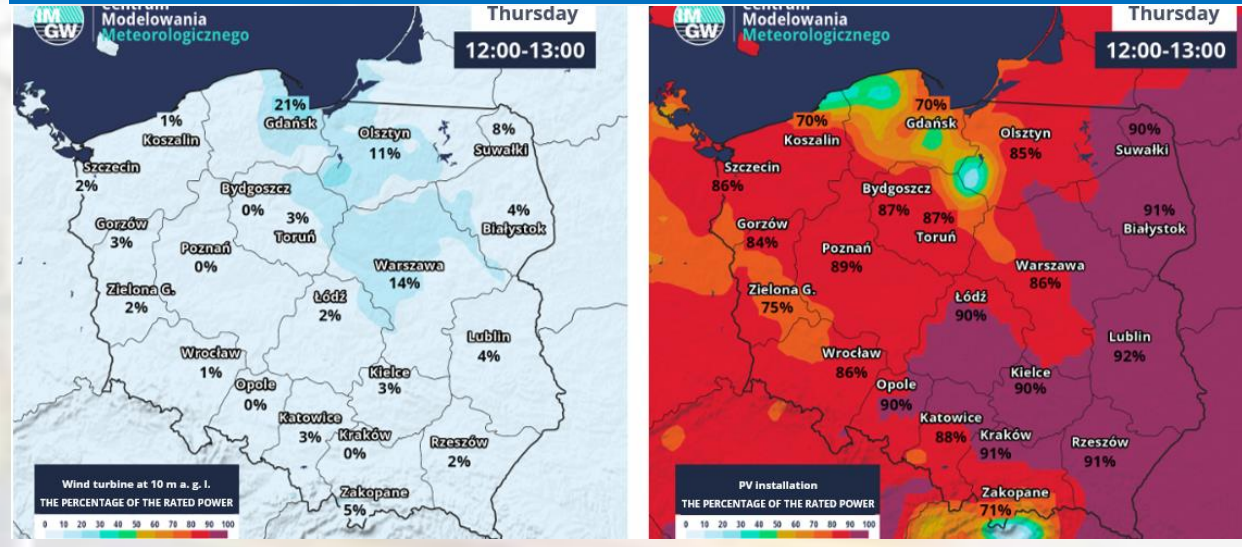


Average wind speed at 10 m a. g. l. in open area in January 2019 at two example locations



Forecast service for the Renewable Energy sector

Example maps of capacity factor for 8.2 kW wind turbine installed at 10 m a. g. l. (on the left) and PV module of southern exposure, and 30° tilt (on the right).



An example series of forecasted values of the rated power for an 8.2 kW wind turbine installed at 10 m a. g. l. (on the left) and a PV module with southern exposure and 30° tilt (on the right).

