TouchWind

€300,000

EKOO GRANT AWARDED TO TOUCHWIND

One grant. One big engineering challenge.

How do you fit a 20–35 m rotor into a 20 ft (6.1 m) container?

ROAM • ROtor Architecture for Mobile wind energy

Developing modular rotor architecture for mobile wind energy systems.

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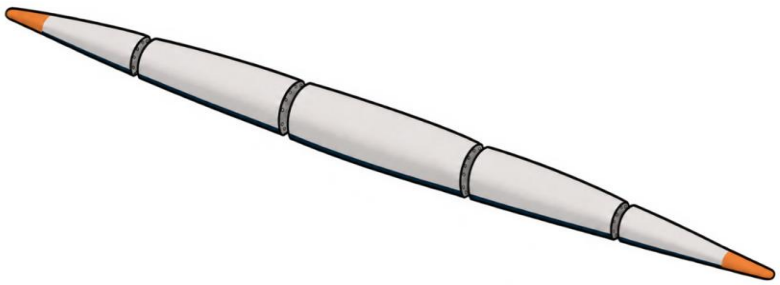
THE CHALLENGE

More swept area.
Same transport envelope.

A larger rotor can increase energy capture, but conventional blades quickly become a logistics problem.

ROAM explores how the rotor can be split, transported, repeatedly assembled and still meet aerodynamic, structural and lifetime requirements.





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THREE PARTNERS. ONE SYSTEM.

From rotor physics to validated design.

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System integration

Use cases • load cases • aeroelastic modelling • turbine integration

eProWind Powered by adios

Blade & structural design

Module interfaces • composites • load transfer • fatigue

TU Delft Delft University of Technology

Experimental validation

Wind tunnel testing • aerodynamics • aeroelasticity • rotor stability

TouchWind

THE ROAD AHEAD

Research today. Deployment tomorrow.

50 kW

First mobile application

200 kW

Scaled mobile system

MW scale

Longer-term TouchWind applications

roam.touchwind.org