

## NON HOMOGENOUS BLADES

Design method for a flexible blade with a fix geometric shape

### APPLICATIONS

- Wind Power
- Hydrokinetic power

### DEVELOPMENT PHASE

Lab prototype

### INTELLECTUAL PROPERTY

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Blades ■ Wind ■ Hydrokinetic ■ Power windmill ■  
Flexible ■ Conversion rate

### PRESENTATION

The innovation tackles a method for designing wind turbine blades. The aim of the technology is to adapt the different materials used for the blades, especially taking into account their Young modulus and volumic mass so as to extend the optimal working regime of the turbine blade.

In addition to theoretical calculations, first experiments have shown an increase of around 35% in wind conversion rates, and the ability to be functional in a wider variety of wind speeds.



### COMPETITIVE ADVANTAGES

- Large operative range
- Low energy for manufacturing
- Easy to set-up