Technology

Wind-turbine for buildings

Client

Description

Small Vertical Axis Wind Turbine (VAWT) optimised to maximise energy yield under changing wind speed thanks to an aerodynamic design, to be used in urban environments as a roof-top mounted system.

Objectives

- To analyse the costs to set up the production of small VAWT, considering the installation of WINDUR prototype on urban building roof to determine its market price, also estimating it for low-volume production series,
- To develop a final exploitation plan to provide detailed information to member SMEs to guide them in the adoption of the novel solutions and to assist them in securing extra funding from partners, investors and local authorities for the time-to-market phase.

Activities

- Market uptake:
  - Cost-benefits analysis,
  - Exploitation plan.

Challenges

- Input data complex to collect
- Technical knowledge required
- Legal & legislation barriers
- Methodological approach

Added values

- Return on Investment (ROI) expected in less than 15 years,
- CAPEX / OPEX analysis,
- Commercial strategy.

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