

Project | E! 114201

Incentive System | Eurostars

Project Designation | Gigan-2 – “3 in 1 sensor of blade deflections, loads, and wind conditions for high-performance wind turbines”

Beneficiary Entity | STME – Sistemas de Monitorização de Estruturas, Lda.

Start Date | 01-10-2020

End Date | 31-03-2023

Total Eligible Cost | 221.885,28 EUR

European Union Financial Incentive | FEDER – 170.583,38 EUR

Goals and Expected Results

Gigan-2 aims to overcome key problems of wind energy, through a new type of hardware-software high precision sensor based on fiber optics and placed inside wind blades.

The project's result will be a prototype, patented, certified and ready to pre-market, that allows more accurate and wider information than current solutions at a lower cost, which is capable of:

- Understanding fatigue component per component and deploying bankable life extension programs;
- Increasing turbine's performance up to 4%, cutting turbine's OPEX up to 5%.

