

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 | 30-08-2020

End date | 26-02-2022

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 a key problems of wind energy, through a new type of hardware-software high precision sensor based on combining optical fiber place inside the blades and aeroelastic models.

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

- Understand fatigue componente per componente and deploy banclable life extension programs;
- Inceze turbine's performance up to 4% and cut turbine's OPEX up to a 5%.

