

DURABLE - Maintenance drones and robots to enhance renewable energy systems in the Atlantic Area

Lead Partner: Ecole Supérieure des Technologies Industrielles Avancées (FR)

Total budget: EUR 3.878.735 | ERDF: 2.909.051

Duration: Jan 2019 – Dec 2021

Summary

DURABLE will accelerate the deployment of renewable energies in the Atlantic Area through the validation and demonstration of previous developed aerospace technologies applied in robotics for operation and maintenance activities in wind and solar energy systems.

Aerospace and robotic technologies together with composites and additive manufacturing will be interweaved to produce full innovative solutions for a more efficient energy production. The use of support robots on solar panels and windmill engines will boost these clean energies in the area.

The supporting robots will be adapted to perform tasks of inspection/surveillance and reparation reducing the high costs of these activities favouring regional renewable energy production conditions.

The project will create an innovative institutional and technical cooperation network that will reduce the operation and maintenance costs in the renewable energy production, merging key technological and institutional actors from these critical sectors.

Partnership

- > Fundación Andaluza para el Desarrollo Aeroespacial – Centro Avanzado de Tecnologías Aeroespaciales (ES)
- > Lortek S. Coop. (ES)
- > Instituto Superior Técnico (PT)
- > Cluster Vasco de Energía (ES)
- > Corporación Tecnológica de Andalucía (ES)
- > Alerion Technologies S.L. (ES)
- > Dublin City University (IE)
- > Universidad de Sevilla (ES)
- > Electricite de France (FR)
- > EDF EN Services (FR)
- > University of the West of England, Bristol (UK)

Associated partners:

- > Abengoa Energía (ES)
- > Cluster Drones AETOS (FR)
- > Sociedad para la Transformación Competitiva – Eraldaketa Lehiakorerrako Sozietatea, S.A. (SPRI) (ES)
- > Agencia de Innovación y Desarrollo de Andalucía (ES)

