AWESOME is a Marie Curie Innovative Training Network (ITN) for early stage researchers (ESR) funded by the European Commission under the H2020 Programme, the EU framework programme for research and innovation.

AWESOME network aims to educate eleven young researchers in the wind power operation and maintenance (O&M) field by constructing a sustainable training network gathering the whole innovation value chain. The main EU actors in the field of wind O&M have worked together, under the umbrella of the European Wind Energy Academy (EAWE), in order to design a training program coping with the principal R&D challenges related to wind O&M while tackling the shortage of highly-skilled professionals on this area that has been foreseen by the European Commission, the wind energy industrial sector and the academia.

**OBJECTIVES**

The main goal of AWESOME is to shape a critical mass of new expertise with the fundamental skills required to power the scientific and technological challenges of Wind Energy O&M in order to achieve the following specific objectives:

1. To develop better O&M planning methodologies of wind farms for maximizing its revenue
2. To optimize the maintenance of wind turbines by prognosis of component failures
3. To develop new and better cost-effective strategies for Wind Energy O&M

These main goals have been divided into 11 specific objectives (projects), which have been assigned to the fellows, for them to focus their R&D project, PhD Thesis and professional career.

Each fellow will be exposed to three different research environments from both, academic and industrial spheres.

**THE CHALLENGES**

**INDUSTRIAL SECTOR**

- Wind energy sector: 10% of annual increase in the last 10 years, mainly offshore
- Aging of existing onshore parks
- O&M costs might have an average share of 20%-25% of total levelised cost per kWh produced

**ACADEMIC SECTOR**

- Networks of universities and other relevant higher education institutions
- Programs to be developed linked to the current EAWE status
- High education programmes, Masters and PhD levels

**PARTNER ORGANIZATIONS**

**BENEFICIARIES**

**TRAINING ACTIVITIES**

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