

Wind Turbine-Maintenance Course Turkey

Goal: Development of a maintenance course for the qualification of maintenance personnel of wind turbines and a subsequent transfer of the concept into the permanent operation.

Program: ADA – Economic Partnership
Project Start: 01. February 2020
Project Duration: 36 Months
Project End: 31. January 2023

Total Budget: € 1,000,000.00
Financial Support: € 500,000.00 (50 %)

Lead Partner: Sekem Energy GmbH, Hitzendorf

Project Partner Turkey:

- Yaşar University, Izmir
- BDT, Istanbul
- Bolakar, Ankara

Project Partner Austria:

- Sekem Energy GmbH, Hitzendorf
- ReEn, Leoben

Parties Involved in Austria:

- Vocational Training Institute Burgenland, Oberwart

Project Summary:

In the medium term, the planned wind turbine maintenance course is intended to offer comprehensive and integrated course of wind power specialists, taking into account international standards (e.g. GWO). The course programme is to comprise three levels. At the beginning there is detailed information about the course offering, which provides a comprehensive overview and serves the wind turbine operators or potential participants primarily as a decision-making aid when it comes to determining whether the entire training or only individual modules are required. The second step is a multi-stage course program, which aims to build professional skills and to work efficiently.

In a third stage, the project offers a certification programme which serves to deepen and confirm the acquired knowledge. Since the course programme is designed to be demand-oriented and

market-oriented, both the structure and the exact contents of the further courses will be defined in the course of the project. As a basis for this will serve:

1. a needs assessment among wind turbine operators, installation and maintenance companies → Output: Expectations of knowledge and skills of maintenance staff
2. a potential analysis → Output: Knowledge that the trainees bring with them

In the pilot phase of the project, the trainer training is implemented at the location of the ARGE partner Yaşar University. Premises are provided by the university. For the practical parts of the pilot course (e.g. GWO Basic Safety Training) a cooperation with providers of already existing advanced training offers is aimed at.

After completion of the economic partnership, the project will be continued in permanent operation at the location of the ARGE partner Yaşar University by the ARGE partners Sekem Energy GmbH, Yaşar University, BDT Ltd, ReEn Consulting and Bolakar Energji Ltd. The participating Vocational Training Institute Burgenland is only to be available in the permanent operation in an advisory and supporting capacity.

In the long term, it is planned to develop further courses in the field of renewable energies (e.g. photovoltaics, biomass use, geothermal energy, etc.) or in the field of maintenance (e.g. railways) and safety or quality management with the ARGE partner Yaşar University. The project is intended as the core of a maintenance academy. The concept of the project is to be transferred to other regions in Turkey or other countries (e.g. Egypt) after region- or country-specific adjustments.

Project Specific Goals:

- Development of qualification offers that are oriented to the needs of the economy in the wind energy sector
- Increasing the qualification of employed and unemployed people
- Introduction of new curricula and development of new occupational profiles in the field of relevant technologies
- Certification of personnel in the wind energy sector on the basis of internationally valid regulations (ISO 17024)
- Increase of quality and safety standards in the wind energy sector in Turkey
- Job creation, in particular in the maintenance and security sectors
- Introduction of modern methods of knowledge transfer with special emphasis on the acquisition of practical knowledge

Target Group:

- Skilled workers and representatives from companies (wind turbine operators, spare parts suppliers, assembly companies, service companies, etc.)
- Persons from the fields of maintenance, assembly, quality or environmental management, health protection and occupational safety
- Jobseekers who are referred to the association by the regional labour market service to take part in the courses
- Students, provided they are suitable from their educational background and wish to acquire the practical knowledge

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