PÖYRY PROJECT SUMMARY

Windpark Casimcea, 100 MW
Romania / Europe

Client

VERBUND Renewable Power GmbH
Europaplatz 2
1150 Wien
Austria

Project

The wind farm is located in Romania, Dobrogea region and is one of the largest parks in that region.

Services

- Technical advice, review of design for 400/110/30kV substations, technical project and permits, tender specification.
- Leading of the tendering procedure for the 400/110/30kV electrical substations
- Supporting of client´s project management team
- Local site supervision for overall wind park, including grid connection with high voltage cable connection and substation systems
- Technical advice in civil, geology, electrical engineering

Execution Period

2009 – 2011 Design
2010 - 2012 Realization

Project Description

The wind farm consists of 43 pcs. wind turbines type Enercon E-82, hub height of 108m and a rotor diameter of 82m. The total power installed for the first stage is around 100 MW. A total capacity of around 250-300 MW is expected.

The wind park is split in two main clusters, which are connected by 2 electrical substations 110/30kV. The produced energy will be transmitted via 110kV high voltage cable connection, with max length of 18 km, to the connection point of the 110kV substation Rahman.

By means of 400/110kV power transformer, the energy will be injected in the new 400kV substation, and transmitted into the transmission grid of Transelectrica. Total capacity of 750 MVA.

Besides that, all part of access and site roads, crane pad and hard standing areas, foundation including pile works need to erected by several supplier.