

# Raggovidda Wind Farm

## Engineering and construction



Ready for production | Photo: Bjarne Riesto

Raggovidda Wind Farm, stage 1, was completed in September 2014. The Wind Farm is located in Berlevåg Municipality, Finnmark. The Wind Farm consists of 15 Siemens wind turbines, class IEC IA, with a total of 45 MW installed capacity. Multiconsult has been responsible for planning, engineering, tender process, contract management, grid and the preparation of the MTA plan.

During the construction phase has Multiconsult had the project management, technical responsibility for all disciplines, construction management and the preparation and monitoring of environmental, transportation, and construction plan (MTA). The Wind Farm was completed without injuries and within budget and time.

### PROJECT

Raggovidda Wind Farm

### PROJECT TYPE

Detail Engineering, project management and implementation

### LOCATION

Berlevåg municipality, Finnmark

### CLIENT

Varanger Kraft Vind AS

### TIME PERIOD

2010-2014

### KEY NUMBERS

45 MW installed capacity

## SCOPE OF WORK

Construction work began in summer 2013 with the construction of roads, hard stands and transformer station. It was chosen to build an indoor transformer for protection against snow and safe maintenance through the winter. In May/June 2014 were the wind turbines transported from Båtsfjord quay to Raggovidda. During eight weeks were all the 15 turbines erected. About 20 km of road were built and about 24 km of underground cable laid in the road shoulder. In addition, a 2.5 km of 132 kV transmission line from the wind farm to the regional grid was built. The turbine foundations is of the rock anchor type (Rock adapter). The project consisted of seven builder controlled collateral contracts. Multiconsult experience from previous wind power developments were important for a successful coordination between the various diciplines. Focus on HSE/SHA and close monitoring of the individual contracts contributed to a successful project. The wind farm was completed, without injury absence, within budget and on time.

## OUR SERVICES

- Engineering and consulting
- Tender
- Contract management
- Wind resource
- Production optimisation
- Noise and shadow calculations
- Environmental transport and construction (MTA)
- Construction management/HSE

## DISCIPLINES

- Project management
- Construction
- Environment
- Geotechnical
- Electrical
- Transmission
- Wind Turbine
- HSE
- Communication



Turbine installation | Photo: Bjarne Riesto



Top: Rotor lifting | Photo: Multiconsult  
Bottom: Foundation | Photo: Multiconsult

05\_082\_23112016