



Project profile: Yuntdag, Turkey

Project name:	Yuntdag
Owner:	Innores Enerji Üretim Sanayi ve Ticaret A.S.
Contractors:	Innores Enerji Üretim Sanayi ve Ticaret A.S
Power utility:	Teias
Installed capacity:	42,5 MW
Wind turbine type:	N90/2500 kW high-speed
Tower height and type:	80 m, steel tube tower
Number of wind turbines:	17
Wind speed:	8,5 to 9,5 m/s
Site:	The site is located in the West of Turkey, some 18 kilometres South of Bergamo, the ancient city of Pergamon.
Site description:	The turbines stand in a relatively harsh landscape which is only used a little for agricultural purposes and is sparsely populated. The nearest villages are Koyuneli (600 metres as the crow flies) and Yuntdag (2.5 kilometres).
Wind turbine siting:	The turbines were erected on two contour lines running in a North-South direction. There are twelve turbines on the eastern side and five on the western side.
Building period:	November to April 2008
Grid connection:	February 2008
Extent of delivery:	Nordex was responsible for supplying and installing the turbines.
Calculated annual power output:	160,000 MWh
Maintenance:	Nordex Energy GmbH
Warranty period:	5 years

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First of all, Innores took care of the infrastructure. Construction of the access roads to the wind farm started in June 2007. They have a total length of six kilometres and an average width of eleven metres. This was the only way to provide access for the 600-ton caterpillar crane used for installing the turbines.

Apart from the access roads, two by-passes also had to be built: the first with a length of one kilometre around the village of Koyuneli and the second, 700 metres in length, around three tight switchbacks which the trucks with the towers and rotor blades would not have been able to get through. In addition to this, a 25 kilometre high-tension overland line was erected to Aliaga in order to connect the turbines to the grid later.

At the beginning of November 2007, when the foundations for the wind turbines had been completed, the 13-man Nordex team started construction work on the towers. They were erected on two contour lines running in a North-South direction.

There are twelve turbines in a row on the eastern side and five on the western side.

By the time the first four were able to go on grid in mid-February 2008 Nordex had not only handled the complete installation, but had also managed transport of the components weighing a total of 5848 tons – involving eight ship voyages and 170 truckloads from the port of Aliaga to the location in Yuntdag.

The “Yuntdag” project marks Nordex’s successful entry into the Turkish market. 17 turbines from the N90/2500 series give the wind farm an installed capacity of 42.5 MW and the potential to provide more than 75,000 households with electricity.

The project started in May 2007 and one year later the last machine was on grid – on schedule. “In this case we were working together with a highly professional customer”, say Nordex project manager Jan-Ole Grote and Ayhan Gök, full of praise. The customer, Innores, is a subsidiary of Dost Enerji and as such belongs to MV Holding, the leading provider of telecommunication services in Turkey.

