




# Project Profile:
# Uetze, Germany

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| Project name: | Uetze |
| Owner: | SachsenFonds |
| Contractors: | ./. |
| Power utility: | EON Netz GmbH |
| Installed capacity: | 31,5 MW. |
| Wind turbine type: | S70/1500 kW |
| Tower height and type: | 65 and 85 m. tubular tower. |
| Number of wind turbines: | 21 |
| Wind speed: | 6 m/s |
| Site: | The site is located approx. 30 km north-east of Hannover in Lower-Saxony, Germany. |
| Site description: | Agricultural landscape |
| Wind turbine siting: | The turbines at Uetze north are installed in three lines, at Uetze south in two lines |
| Building Period: | June - November 2002, including substation |
| Grid connection: | November 2002 |
| Extent of delivery: | Turnkey project |
| Maintenance: | Nordex Energy GmbH |
| Warranty period: | 5 years, technical management by Nordex for 10 years |

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At the end of 2002, Nordex installed the Uetze wind farm, located 30 km north-east of Hannover for the customer SachsenFonds, a subsidiary of Landesbank Sachsen Girozentrale,

The wind farm Uetze consists of Uetze north and Uetze south. It comprises in total 21 x S70/1500 kW turbines. The average wind speed at this site is around 6 m/s. In order to harness this potential, Nordex supplied the turbines with a tower height of 65 and 85 metres, the maximum permitted at this location.

In this project Nordex was responsible for the delivery and installation of the turbines as well as for the construction of the access routes, the work of the foundations and the electrical works.

As part of the turnkey package, Nordex also set up a completely new wind park substation in Uetze. The substation is especially designed for the link-up of the wind park network to the high-voltage grid of the utility Eon Netz GmbH. Designed as an outdoor plant, the substation converts the alternating voltage of 20 kV to 110 kV.

In this connection, Nordex conducted all the negotiations needed with the power supply company, starting early before the grid connection had been approved. Further, Nordex was responsible for the installation and connection of the medium-voltage system, including buildings as well as the installation and connection of distribution transformers, the switchboard plant and protection technology and - last but not least - also for the commissioning up to grid switch-on together with Eon Netz GmbH.

Today, Nordex is also responsible for the long-term technical management and maintenance of the wind farm.

During the operating phase, Renerco Renewable Energy Concepts AG has been overseeing the two wind farms Uetze and Reinsfeld / Hinzert-Pölert (9 x S70) on behalf of SachsenFonds pursuant to the terms of a technical controlling agreement. Today, it is involved in the operating processes and handles technical controlling of each wind farm on behalf of the fund company and the banks. It is familiar with the technical condition of each individual turbine. Nordex assigned a separate technical manager to each wind farm and works closely with him.

“All three wind farms complied with the contractual availability guarantee of 97% in 2003. The Uetze wind farm with its 21 S70 turbines achieved a greater yield than that indicated by the wind index data. Nordex is able to respond very quickly to any requests for service particularly in the case of the Reinsfeld / Hinzert-Pölert wind farm, as there is a service station in the immediate vicinity. In addition, it is characterized by its willingness to assist and the fact that extensive information on technical details is provided at short notice. There are close and open ties with Nordex. Activities agreed upon are implemented quickly and actively. Generally speaking, Nordex works as both a producer and an operator as well and as efficiently as can be expected for other large companies in this sector.” (Renerco-statement Taken from Windkraftjournal 3/2004)

The S70 is one of Nordex’ top sellers in Germany. The concept behind the S70/1500 kW, created in 1997 on the basis of pitch technology, follows upon the successful solutions incorporated in the 600-750 kW turbines and transfers these to the requirements of the megawatt class. The extensive strategically long-planned development and prototype phase (since 1998) ensures high reliability in series production. With a nominal output of 1.5 megawatt the turbine is specially designed for locations with weaker average wind speeds.

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