



Press Release

18% energy production increase with ATS hybrid tower

In Grevenbroich, ATS has installed one of the largest wind energy systems with hybrid tower in the world. The lower section of the innovative tower consists of narrow concrete pre-fabricated parts, the upper section of conventional steel components. With its hub height of 133 meters, the system has an overall height of 180 meters. The ATS tower achieves great hub heights and therefore higher energy yield.

Grevenbroich, 20.11.2009

ATS wind tower in Grevenbroich produces 18% more energy

Since April 2009 the Siemens 2.3MW turbine with the 133m high ATS hybrid tower is in production and delivering renewable energy on the testfield of Windtest Grevenbroich in Germany. The results for the first half year confirm the expectation that the turbine produces 18% more energy than a comparable turbine at 100m hub height. For steel towers, 100m hub height is normally the limit, because a larger height requires a tower diameter of more than the 4.3m, which cannot be transported anymore because of bridge passage.

The benefit became already obvious during the first weeks of production, because on days with less wind this turbine was the only one producing energy while other turbines on the testfield were standing still. Wind measurements from the first half year, executed by a wind measurement mast of 85m in combination with a SODAR system is measuring the wind speed from 0 to 200m height during the measurement campaign.

The wind turbine is performing well and has produced more than 2000 MWh so far, which is a good result for a summer period. The concrete tower is stable as a rock, functioning as it should, showing no problems at all. Windtest has started the measurement campaign, measuring the material stresses in the concrete and post-tensioning cables and the dynamic behaviour of the whole tower. The campaign will run till beginning 2010. The first results are expected soon.

For more information see www.ats.eu

Project Overview:

Development and operating company: ATS Projekt Grevenbroich GmbH

Hub height:
133 meters

Total height:
180 meters

Tower design:
76.5 meters concrete (ATS) and 55 meters steel (Siemens)

Nacelle and rotor:
Siemens SWP 2.3 Megawatt, 93 meters rotor diameter

Location: Grevenbroich wind power test field, near Cologne, Germany

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The tower is constructed and operated by ATS Projekt Grevenbroich GmbH, in which juwi Netzwerk GmbH & Co. KG, Mecal Projects GmbH, Hurks subsidiary HB Bau GmbH and Siemens Project Ventures (SPV) have equal shares.

With annual sales of some EUR 650 million, the **juwi group** ranks among Germany's leading renewable energy companies. With a staff of about 550, juwi is involved in the entire service value creation chain in the segments of photovoltaics, wind energy and bioenergy. So far, juwi has realized more than 320 wind turbines with a total capacity of more than 500 MW. In the solar segment, about 1000 PV installations with a total capacity of more than 250,000 kilowatts of capacity were realized.

Siemens Project Ventures GmbH (SPV) is a subsidiary of Siemens Financial Services. Together with renowned partners, SPV invests equity capital in the development of infrastructure projects worldwide, predominantly in the energy, transportation and telecommunications sectors. SPV has already been involved in the development of eleven international power generation projects representing a total capacity of more than 7,000 megawatts, as well as three telecommunications projects, one airport, and a particle therapy center, with a cumulative project volume amounting to USD 7 billion.

Mecal is an independent engineering company specializing in applied mechanics with industrial products in order to achieve a technological advantage for their customers. Mecal has a track record of more than 17 years experience in wind turbine technology. Founded in 1989, Mecal has grown into an organization with 100 employees in the Netherlands, the U.S., and in Japan.

Hurks Groep is one of the largest general contractors in the Netherlands. The company is leading as a builder of high-tech pre-cast concrete constructions, is reputedly innovative, and operates internationally. Hurks is a financially strong partner, with annual sales of Euro 350 million. It is the holding of 15 companies, with a total of 1,000 employees.