

Press Release

Never out of breath - **Onshore – Wind turbines with optimized temperature control**

Korb, Germany 2011-04-27

Metallux-Power resistors in wire technology make sure that wind energy parks are never out of breath. Before a re-start, after an operational shut down, the especially designed Metallux AG resistors are responsible for optimal temperature control of the power electronics by Converteam for the onshore-wind turbines.

Be it as charging- or discharging resistors, brake resistors in drive systems, protection resistors, grounding resistors, circuit or heating resistors – safe and reliable resistors are required in many industrial sectors – same applies for renewable energies, as shown for example by Converteam. Converteam is a major system supplier within the wind – industry and a preferred partner of wind parks, developers of these, as well as operators. The company offers a comprehensive range of inverters-, generators-, and power quality-, SCADA- and power supply solutions. Converteam is also a pioneer in the area of electro technical systems for wind energy plants and wind parks as well as a global supplier for wind inverters. As onshore wind turbines operate under extreme climatic conditions, measures need to be taken to ensure a consistently trouble free operation. A complex system of temperature sensors controls at all times the actual operating conditions and ensures that all electronic components are operating at temperatures $\leq 0^{\circ}\text{C}$. During non-operational periods the aggregates can cool down to well below freezing point.

Before restart of the plant, the specially designed Metallux AG resistors take care to ensure an optimal temperature of the IGBT-module. Also during operation – depending on power demand – conditions can occur, which might necessitate again a heat input. Deployed are Metallux – power- resistors in wire technology, preferably resistors from the PWR-S series. These top – quality materials, coupled with protection grade IP 55, guarantee not only safe operation but also fulfill the high expectation of a long life cycle.

The Metallux AG product range power resistors comprises innovative designs in thick – film technologies, resistors on steel substrates with varied geometric shapes and a vast spectrum of wire-wound power resistors. A wide basic range of cemented wire wound tube resistors and numerous versions in aluminum housings as well as special adapted designs are part of the vast product range of Metallux AG.

Press Release

Never out of breath - Onshore – Wind turbines with optimized temperature control

Autor:**Metallux AG****Egbert Forker**

Tel. +49 (0)7151/939 35-0

Fax +49 (0)7151/939 35-3

egbert.forker@metallux.de

About Metallux:

Metallux AG is a high performance manufacturer of electronic components produced in thick film technology.

The German company boasts a vast variety of services and offers next to their standard program of pressure, linear and rotative as well as membrane sensors, high voltage and brake resistors, also customspecific solutions including customised potentiometers and joysticks.

A strong customer orientation coupled with ideas and solutions makes for satisfied customers. Innovative products, a multitude of granted patents, long standing experience - numerous customers in the automotive industry, electrostatic-, medical- and industrial-electronic industries depend already for 25 years on the Swabian company Metallux, a pioneer in its field.

www.metallux.de**Contact PR:**

Metallux AG

Anja Puttkammer

Tel. +49(0)7151/93935-23

Fax. +49(0)7151/93935-3

anja.puttkammer@metallux.de