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Power electronics

Semiconductors

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Conducting business

One powerhouse is making the core of ABB's power electronics products: the semiconductor plant in Lenzburg.

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Performance-enhancing packaging

IGBT module packaging is about thinking outside the box.

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A tiny dot can change the world

The IGCT is a superlative under semiconductors in terms of power ratings and switching.

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Switching to higher performance

Meet the silicon chip that took more than a chip out of the market, and switched the way we think about power electronics: the IGBT.

Drives

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The workhorse and its jockey

Find out how ABB's drives are keeping many an industrial workhorse ahead in the race for efficiency and productivity.

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A team of drives

The cement industry benefits as several drives team up.

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The compact controller

An exciting development – the PP D104 controller – is just the ticket for traction and excitation applications.

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AC excitation with ANPC

A new switching topology is enabling a higher level of excitation in pump storage plants.

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Clean and invisible

Renewable energies spark a reassessment of old operating methods in grids.

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The railway connection

ABB frequency converters empower railway grids.

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Offshore but online

ABB technology helps society face the wind of change.

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Enabling the power of wind

Wind farms may be going to sea, but thanks to ABB's integration solutions they're not out of their depth.

Diagnosis and safety

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Expedited problem solving

When it's the control system that needs to be controlled, ABB takes a look at software diagnostics.

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Safe landing with pulsed power

Find out how airports got onto ABB's radar screen, and how pulsed power is revolutionizing radar.

Perpetual pioneering

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The winning chips

Take a historic tour through the rapid development of power semiconductors at ABB.

