

ABB Review 4/2005

Innovation – the DNA of business

Cover Stories

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Looking back to look forward

In 1905, Einstein penned no less than five ground-breaking papers. ABB Review marks this centenary by taking a closer look.

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Fruits of innovation

13 short stories about technologies developed by ABB and used by customers across the globe.

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Best innovations 2005

Savor some of the best ABB innovations of 2005.

Grid flexibility

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Grid flexibility

Rather than build new lines, industry has tended towards the development of new and flexible technologies to increase transmission network capacity. FACTS is one such technology.

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Light and invisible

Why underground HVDC cables are set to banish overhead lines into the history books.

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Convergence in the control room

IT systems are not only becoming more robust, but they have also begun to converge onto a single platform.

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Powerful and stable

EGAT, the Thai electricity authority is reaping the benefits of ABB's Power oscillating monitoring system.

Grid reliability

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High voltage assembly

Higher reliability for switchgears through integration of circuit-breakers, disconnectors and control gear.

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Breaking to the front

How ABB "broke through" to become market leader in vacuum interrupters.

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Ironing out resonance

When ferroresonance strikes, it is often bad news for voltage transformers. ABB's SmartLoad™ helps them weather the storm.

Productivity

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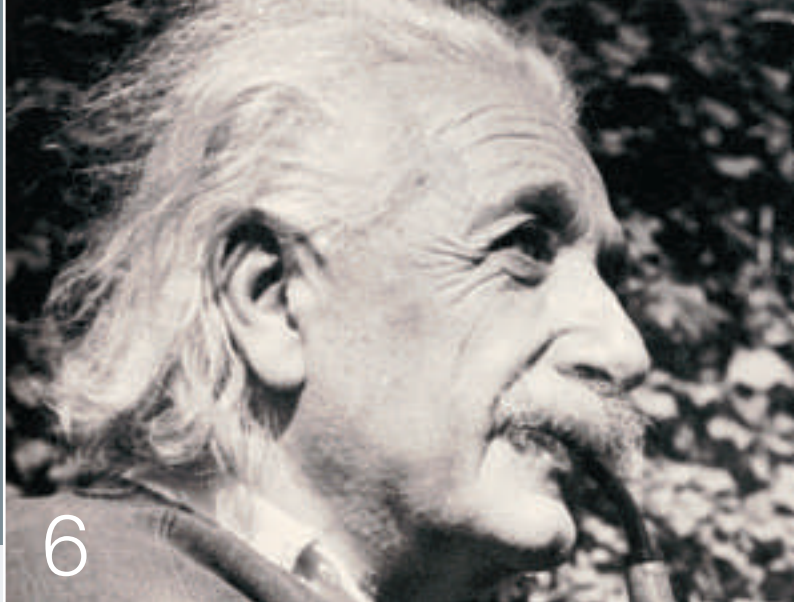
Age is no issue

"Brown field" manufacturing sites in Europe and North America are evolving thanks to ABB's control system evolution strategies.

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The process "copper"

An optimization tool that is set to become every copper plant manager's best friend.



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Control loops: pleasure or plague?

ABB's passive and automatic Control Loop Condition Monitoring (CLCM) is catching the attention of many different industries.

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Stabilizing influence

The control system that takes the vibrations out of galvanization.

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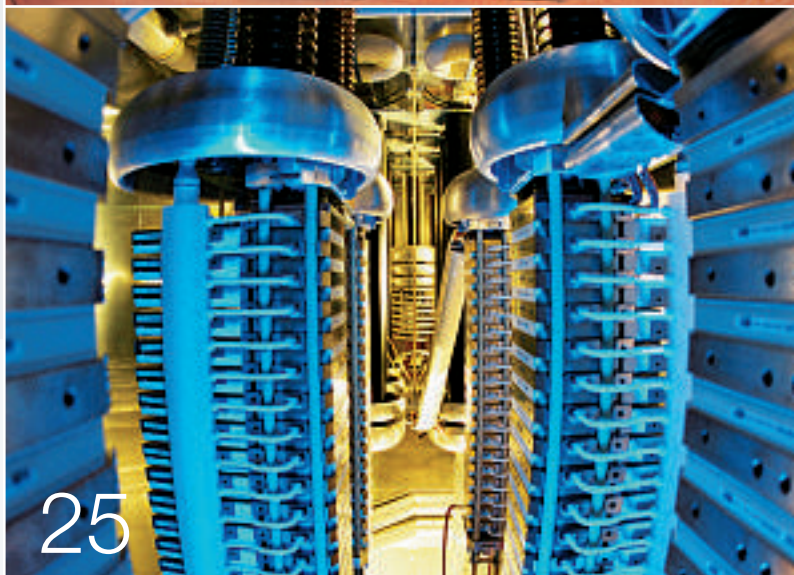
Live(ly) neighbours

The modular motor controller with the built-in anti-ageing strategy.

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Unplugged but connected

Part 2: Wireless sensors and effectors in industrial control.



Tutorial

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Industrial information system security

Part 3: Standards and other forms of guidance are needed to help companies systematically secure their industrial automation systems against electronic attacks.

