

# Contents



**Page 6**  
New tools to raise productivity



**Page 13**  
Cement plants shake off the dust



**Page 24**  
APC suite of products

## **6 Aspects of productivity**

With no more 'easy pickings' in sight, manufacturers are looking for other ways to improve bottom-line performance. Advanced optimization tools offer new solutions.

## **13 New levels of performance for the cement industry**

ABB's enhanced Expert Optimizer provides a powerful tool for monitoring and adapting organizations to changing micro and macro needs.

## **20 A paper mill optimization program builds on ABB automation technology**

How a Swedish paper mill has realized its ambition of mill-wide automation and control room consolidation.

## **24 Optimize<sup>IT</sup> APC suite**

This comprehensive solution package for advanced process control enables industries to meet their quality control goals.

## **30 Map of the future**

Mouse-click navigation of electrical networks will allow ABB's utility customers to operate more efficiently by giving them easy access to all relevant asset information.

## **34 Enterprise solutions for discrete manufacturing**

The ABB Connectivity Solution is used in company factories for near real-time monitoring of processes and as an infrastructure for implementing support functions.

## **39 Real-time production intelligence**

Real-TPI is a dedicated software solution based on ABB's Industrial<sup>IT</sup> architecture that measures and analyzes equipment effectiveness in support of productivity improvement.



**Page 34**  
New enterprise solutions



**Page 50**  
Sea breezes and fresh air



**Page 57**  
Seeing more than meets the eye

## Innovative engineering

- 45 Cool, calm and collected**  
Emergencies on the Grane oil rig are no cause for alarm since ABB installed advanced safety and automation systems in the rig's control room.
- 50 ABB climate control on board Queen Mary 2**  
State-of-the-art heating, ventilation and air-conditioning systems from ABB ensure an unrivaled level of passenger comfort on Cunard's new luxury liner.
- 54 Industrial<sup>IT</sup> streamlines operation of Polish power plant**  
Following a major integration project, the Jaworzno III power plant's six information systems can now be accessed from one operator workstation.

## R&D digest

- 57** Industrial IT meets The Matrix
- 61** Case-based training for accelerating and error proofing the product development process. ABB teams up with Stanford University.
- 63** Power system overviews 'at a glance'

## Tutorial

- 66** Risk management – Part 1: Risk and uncertainty

### New

In this issue you can read Part 1 of a three-part tutorial on risk management. Dealing with risks is an inherent part of business, and the author provides insights with benefits for suppliers and customers alike.

[www.abb.com/abbrevreview](http://www.abb.com/abbrevreview)