



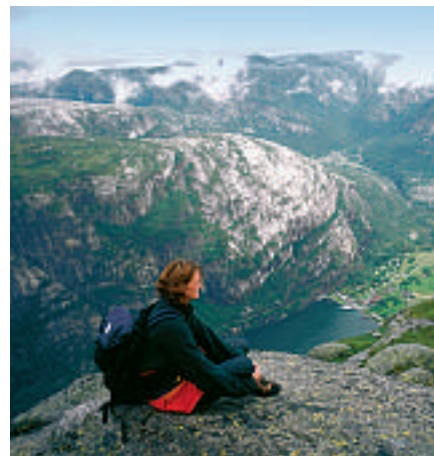
Page 12

It's getting uncomfortably warm up here



Page 20

Looking forward to a bright future



Page 34

Driving efficiency

## 6 Power to reduce poverty

Having access to electricity is deemed an essential ingredient in the global fight against poverty. Companies like ABB are working to bring light to those without.

## 12 Cool solutions for a feverish planet

The need to reduce CO<sub>2</sub> emissions is imperative. WWF's Powerswitch! initiative was created to challenge the energy sector to make the change from coal to clean power.

## 17 Energy efficiency is the business of ABB

In it's fight to reduce CO<sub>2</sub> emissions ABB has produced a portfolio of products and solutions over the years for the power, industrial and transportation sectors.

## 20 Power to the people in Southern Tanzania

Providing power in a sustainable way to rural parts of the developing world requires creative business and technical solutions. ABB is taking on part of this challenge through its 'Access to Electricity' initiative.

## 25 HVDC Light®

One victim of increasing energy demands is our landscape. ABB's HVDC Light® technology is an underground solution to an overground problem.

## 30 Wind: intermittent, Power: continuous

Renewable energies like wind and sun, though unpredictable, are important sustainable power supply sources in the future. But many challenges to conventional generation and transmission must be overcome.

## 34 Driving towards a better future

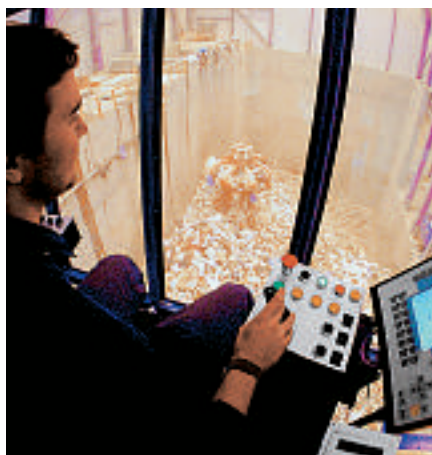
Reduced energy consumption and increased productivity are some of the customer benefits gained from applying drives technology. But that's only part of the story.

## 39 P<sup>3</sup>: Pulp Production Planning

ABB's pulp and paper online production optimizer is a very powerful tool for production planning and decision support in complex environments.



**Page 50**  
Safety in numbers



**Page 54**  
Waste not, want not



**Page 64**  
Drinking and driving in Bangkok

In this issue you can read the final part 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.

- 44 Industrial<sup>IT</sup> for cold rolling mills**  
With increasing product quality demands, ABB's next generation cold rolling mill automation system sets the standard for automation in the metals industry.
- 50 The protecting barrier**  
A storm surge barrier with 62 movable gates protects a part of Holland against the often wild North Sea. ABB's complex gate control system plays an important role.
- 54 Waste to energy**  
A high-tech modern waste to energy plant requires an advanced IT system and that is why one Swedish company choose ABB's Industrial<sup>IT</sup> technology.
- 58 Generating efficiency**  
ABB's modern supervision and control technology for hydropower plants is not only used for new plants but also for modernizing existing installations.
- 61 Leak manager**  
Some water distribution networks, struggle with losses of up to 70%. ABB's leakage management software helps identify leaks and so protects users, resources and the environment.
- 64 Water to tap**  
Supplying water to a city of 11 million inhabitants is no easy task. The Metropolitan Water Works Authority in Bangkok turned to ABB when it needed to update a 25-year old pumping station.
- 67 Vessel Internal Electrostatic Coalescer (VIEC)**  
Separating oil and water can be difficult and time-consuming. ABB's VIEC efficiently and significantly reduces the troublesome emulsion layer in the first stage separator.
- 71 Tutorial: Risk management – Part III: Risk analysis in practice.**

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