

# ABB Review 2/2009

## Green for growth

### Global outlook

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#### Global energy challenges

An interview with MIT professor Ernest Moniz sheds light on the world energy crisis.

### Sustainable processes

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#### For a better environment

Power transmission and distribution products have real recycling potential.

**17**

#### Optimal trade-offs

Expert Optimizer is helping process control industries tackle continuously changing and complex market conditions.

**23**

#### Greening the gate model

Making a product green should be about opening gates rather than overcoming hurdles.

**25**

#### A worthwhile investment

Variable-speed drives play a starring role in the battle against harmful emissions and soaring energy costs.

### Sustainability and energy

**29**

#### The attraction of simplicity

Permanent magnets in motors present attractive savings in complexity, space and energy.

**35**

#### BORDLINE® M

An auxiliary converter for trains couples innovative switching concepts with high energy efficiency.

**42**

#### A turn for the better

ABB turbochargers have caused a revolution in modern engine design.

**47**

#### Practicing what we preach

ABB robots are building ABB products.

**50**

#### Every bit counts

Bit by bit, efficiency gains are being made through improved software.

## Sustainable results

**55**

### Intelligent in-house service

Everyone's a winner thanks to the i-bus KNX® building control system.

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### Metamorphosis

ABB has found the IDEAL way to manage change.

**64**

### Reliability analysis

Data and reliability modeling software are proving the value of improvements.

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