# ABB Special Report Dancing with the Dragon

## ABB in China

## 5

Flying with the dragon ABB embraces a century of cooperation with China.

### 9

Power and productivity

There are exciting times ahead as China gears up for tomorrow.

## Powering the economy

#### 16

A wind of change for energy production The grid is getting ready to go greener and cleaner.

#### 21

Saving energy the efficient way Smart thinking means less waste.

#### 28

Congestion relief ABB is enlightening cities by bringing on FACTS.

#### 33

Breaking news Ultra-high-voltage switchgear makes its breakthrough in China.

#### 38

Small footprint, high performance Air-insulated switchgear learns to do more with less.

#### 43

Performing at a higher level Heat-pipe cooling for circuit breakers goes from pipe dream to reality.

## Productivity

### 47

Chemistry matters ABB's production goes green.

### 50

Integrated but separate ABB's 800xA High Integrity is making control systems safer.

#### 55

Hand in hand ABB's advanced control systems aren't daunted by complexity.

### 59

Projections of productivity Ergonomics in the control room is putting people in control.

#### 64

Hard working but not exhausted From grime to green: Turbochargers are revolutionizing diesel engines.

#### 67

Concrete energy savings Cement producers are casting aside inefficiency.

## 73

#### Networking

ABB's Energy Management System is facilitating emissions trading and optimization – not just on paper.

## 77

#### Parallel pumping

Improvements flow into parallel pumping thanks to IPC technology.



## Robotics

#### 82

With a human touch ABB's robots add to the shine as they learn to polish.

#### 86

Virtual engineering I Offline programming puts robots ahead of the learning curve.

#### 90

Virtual engineering II Optimized cell layouts help robots work smarter and faster.

### 93

A picture or a thousand words? Robot programmers are seeing the signs in cell engineering.

#### 96

Hot-spot robotics

ABB's robotics solutions are spot on in automotive spot welding.

