

# Transformers in transformation

# 6 A world in transformation

ABB is the world's largest transformer manufacturer and service provider

# 11 A legacy of transformation

ABB is a leader in voltage and power breakthroughs

# Transformer applications

# 17 UHVDC

Meeting the needs of the most demanding power transmission applications

## 22 Responding to a changing world

ABB launches new dry-type transformer products

## 29 The quiet life

ABB's ultralow-noise power transformers

#### 33 Power below the waves

Transformers at depths of 3 km

# 37 Shrinking the core

Power electronic transformers break new ground in transformation and transportation

#### 41 Balance of power

Variable shunt reactors for network stability control

### 45 Workhorses of industry

Industrial transformers in a DC environment

# Trends in transformation

## 53 Smart transformer

Transformers will have to do a lot more than just convert voltages

# 58 Composing with components

Innovative and high quality transformer components and services for diverse needs

## 64 Sustainable and available

Enhancing performance and reducing environmental impact of existing transformer fleets

### 69 Green-R-Trafo™

Safety makes a green transformation

# 71 Changing trends

New technologies for the evolving grid