### Lessons learned

### **12** Reassess dam safety

Martin Wieland explains the need to evaluate the seismic safety of existing dams.

### 14 Improving flood fights home and abroad

Sharing tools and methods in the fight against floods

### 16 Can hydropower resolve the energy crisis?

Sustainable hydropower critical role in future energy systems

## New innovations

**18** Waves of innovation

Developments in tidal energy

# **72**Tagless technology for fish tracking

Bringing the task of fish tracking into the 21st century with AI technology

## **26** Technology benchmark

Detailing the first horizontal, sixnozzle Pelton turbine

### Environment

### 27 Floodgate replacement at Wirtz Dam

Three-year project underway to remove and replace the 10 floodgates at Wirtz Dam

# 28 A satellite remote sensing perspective on water resources

Satellite study focuses on the Belo Monte Project and the Xingu people of the Amazon.

### 32 Environmental investment

Funding repairs to ageing water delivery systems and dams

# **36**Battling against climate change

Countries make plans and prepare for increasingly extreme weather events in the not-too-distant future

### Asia

### 38 Asian insights

Helping to avoid transboundary river conflicts across the region

### 40 Complete and continuing

Updates on hydropower and dam projects in development

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## Eyes in the sky, and underground

Crane put to work underground, with details on new products recently released to the market

# 46 The positive impact of flexible working

Initial results from a groundbreaking flexible working pilot programme in the construction sector, demonstrate that flexible working has been a key contributor to improving employee satisfaction and achieving a reduction in sickness absence rates