Cover Story

The Hydropower Extending Power System Flexibility (XFLEX HYDRO) project aims to demonstrate the flexibility of hydropower technologies

5 World News

Draft deal agreed between Egypt, Ethiopia and Sudan for the Grand Ethiopian Renaissance Dam; Repair work starts at Toddbrook reservoir

10 Spotlight

Martin Wieland, Chairman of the ICOLD Committee on Seismic Aspects of Dam Design, reflects on past achievements and future issues

40 Classified

50 Contacts

features











Inspection

14Upon closer inspection

Insight into recent dam and reservoir inspections

18Expert verdict delivered on tailings failure

A look at the expert panel's technical report on Brumadinho tailings dam failure in Brazil

Environment

22Revisiting the debate on large dams

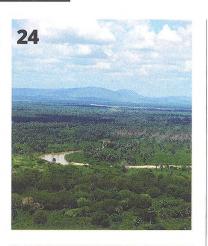
As 20 years pass, what are the legacies of the World Commission on Dams?

24 African assessment

Assessing environmental and socially sustainable considerations in hydro projects

26Conversion improves environmental credentials

Reducing maintenance in Spanish hydro plants



Analysis & design

28 Innovative and resilient

Project aims to demonstrate how flexible hydropower technologies can deliver a secure power system

32Can climate change Canadian potential?

The impact of climate change on Canadian hydropower

Technology & tools

33Rapid parts for rotating equipment

Digitalization helps improve lead times for equipment

34Big Tex gets to work at Mill Creek

The largest hard rock TBM ever starts to bore in the US



36 Streamlining dam inspections

Details on the Fulcrum mobile dam inspection app, designed to help dam operators save time and resources

Wave & tidal power

38 Can Britannia rule the waves?

Organisations in the UK are working to help secure revenue support and pave a more accessible route for the country's wave & tidal power industry to the energy market

41From wheat farming to wave farming

Bombora Wave Power is set to commission its mWave wave energy converter in 2020.

44Novel approach to wave energy generation

Wave Swell Energy is developing its Oscillating Water Column technology in Tasmania, Australia