

Cover Story

The importance of performing suitable TBM risk assessments for hydropower projects

5 World News

IEA's Sustainable Recovery Plan puts focus on modernisation; New bill for hydro development in the US

10 Spotlight

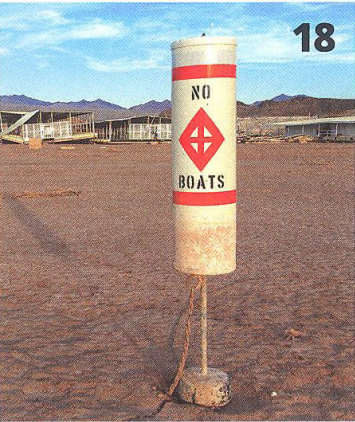
Recent news and developments in the hydropower sector from across Africa, including recent finance deals

46
Classified

50
Contacts

features

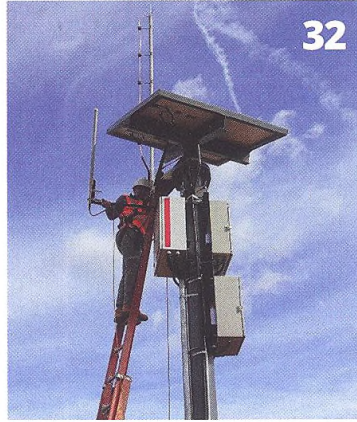
18



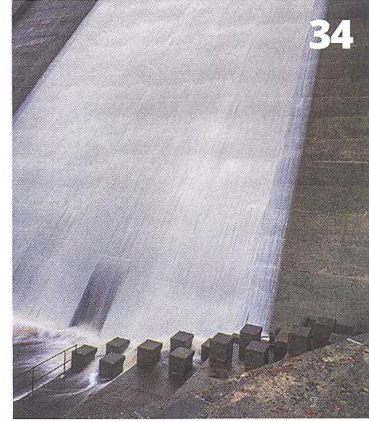
22



32



34



36



Managing risk

14 TBM Risk Assessment

The importance of evaluating TBM design and construction methodology for long and deep hydropower tunnels

18 Brace Yourself: a flood of water lawsuits is coming

Could US courtrooms soon be flooded with lawsuits in an effort to secure scarce water supplies?

22 A risky business

Continued effort is needed to address and manage the risks posed by climate change

Design

24 A first for hydropower

A look at the world's first shaft hydropower plant

26 Water-energy system design

Supporting system planners in regional infrastructure design

Safety

28 Learning the limits of engineering capabilities

Mark Baker gives an insight into his work within dam safety

32 Microseismic technology for tailings dams monitoring

Technology developed to monitor the structural stability of tailings dams

34 Preparing for reservoir emergencies

Government consultation is being carried out in an effort to ensure that all large raised reservoirs in England have emergency contingency plans in place to maintain safety

Training

36 Digital tours

Hydropower operators are offering an alternative to the traditional tours and open days at power projects –they're going virtual

Lessons learned

38 An unhappy history of resettlement

New research suggests that, despite well-intentioned investments, key lessons from historical resettlement projects are not being put into practise.

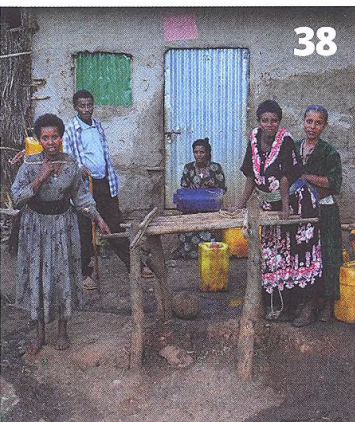
42 Passive acoustic monitoring

International experts have been learning about passive acoustic monitoring (PAM) in high tidal flows. Presentations at a recent workshop gave an insight into the cutting edge of PAM development and discussions focused on what the future priorities and direction should be over the coming years

44 Building resilience when things go wrong

As examples from various industry sectors show, learning from previous successes and failures can help shape future infrastructure resilience and Covid-19 recovery efforts. Suzanne Pritchard reports

38



42

