

The Fishheart fishway is helping to strengthen the natural cycle of threatened trout in lake Oulujärvi near Leppikoski hydropower plant

Planning application submitted for Toddbrook Reservoir repair; World's longest subsea electricity interconnector commissioned

Could a collaborative agreement on the filling and operation of the Grand Ethiopian Renaissance Dam help build trust between neighbouring countries?

features



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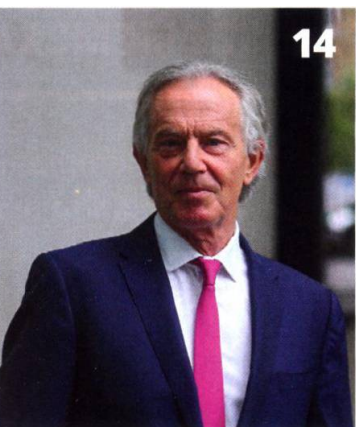
Pumped storage

10 Key to reliable renewables

Decarbonisation of the global energy system is key to tackling climate change. However, without sufficient long duration energy storage to provide reliability for intermittent renewables such as wind and solar power, the success of the clean energy transition could be at risk. As the International Forum on Pumped Storage Hydropower highlights, pumped storage has an increasingly important role to play in the years ahead. Suzanne Pritchard reports

14 Crisis within a crisis

On the opening day of the World Hydropower Congress 2021, the International Hydropower Association brought together two former prime ministers in conversation. Tony Blair and Malcolm Turnbull have both played pivotal roles in putting climate change high on the national and global political agenda. Here they discuss the role pumped storage has to play in the clean energy transition



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16 The pumped storage story continues

In its third report on pumped storage, the National Hydropower Association gives a comprehensive overview of the US industry

Modernisation

18 Modernising Africa's ageing hydropower fleet

The Africa Hydropower Modernisation Programme has been developed to enable and optimise the available hydropower capacity of existing plants and increase power systems flexibility, which is a requirement for the integration of more variable input from wind and solar resources. This in turn is expected to accelerate the transition towards clean, resilient and low-carbon energy systems across the African continent

Environment

20 No time to waste

With the latest report from the Intergovernmental Panel on

Climate Change being described as a reality check, world leaders are being urged to face up to, and act now, on our changing climate. As part of its commitments, the hydropower industry has issued a new manifesto for change which outlines how sustainable hydropower investments can help achieve net zero emissions and limit climate change

22 The heart of the matter

The hydraulic Fishheart fishway is a Finnish innovation enabling fish to migrate past obstacles. European energy company Fortum has recently installed the system at one of its hydropower plants

25 Protection systems

Zuzana Janockova of Telegrafía explains how dam warning systems can help protect human lives

New projects

26 Project updates

IWP&DC takes a look at new project developments globally