

Cover Story

An overview of recent activity across the dam industry in Indonesia. Pictured on the front cover is the Jatigede Dam in West Java Province

5 World News

IHA publishes 2021 Hydropower Status Report; Major step towards Klamath river dam removal as FERC approves license transfer

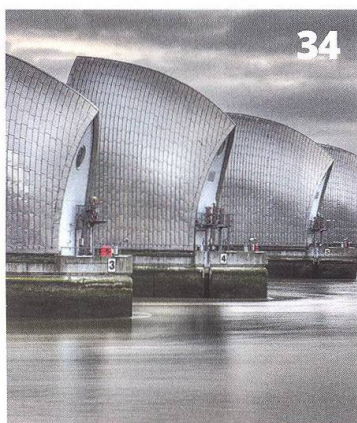
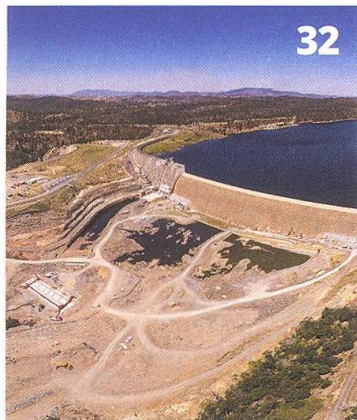
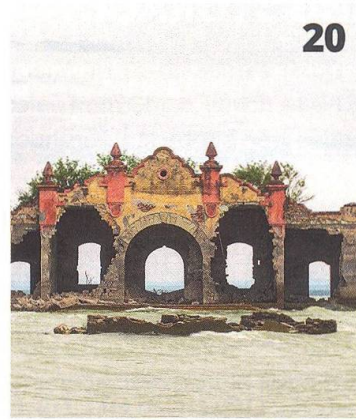
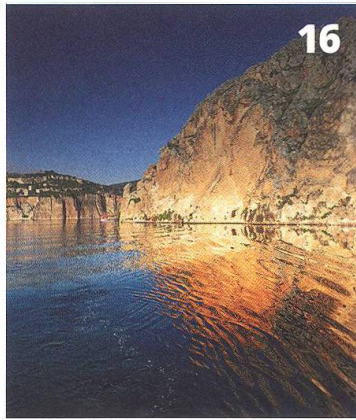
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In response to the Covid-19 pandemic, the International Centre for Hydropower offers an improved portfolio of online training

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MINT & BRIC

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Country overview from the Indonesia National Committee on Large Dams

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MINT & BRIC countries are harnessing their hydropower potential

20 Widespread drought continues in Mexico

Up to 85% of Mexico is currently gripped by what is fast becoming one of the country's worst droughts on record

New technologies and tools

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New debris boom helps protect critical infrastructure, including hydraulic structures, explains Chris Rogers

24 Developing a digital twin for hydropower systems

National laboratories work together to develop a virtual, open-access platform that creates a digital representation of hydroelectric plants

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Details on new product releases from companies within the engineering sector

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Tools to aid dam inspections

30 New laser scanning tool

Providing detailed data for critical condition assessment

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Flood damage has necessitated repairs at Australian dams, while repair work is underway at North American projects

34 Model behaviour

New research has used modelling to help eel conservation, increase fish passage through hydropower facilities, and improve tailings dam design and safety

Environment

36 Fish-friendly measures

Construction is progressing on Lower Austria's longest fish pass

Construction

38 Dimensioning D&B rock excavated tunnels: the Nepal experience

Cesar Alvarado Ancieta summarizes the criteria for selecting the D-shape or modified horseshoe section for 37 hydropower projects in Nepal, ranking in capacity from 15MW up to 900MW, taking care on type of concrete or shotcrete lining, and rock support type, for the design flow and in order to not exceed the flow velocity limits