
AI & machine learning

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Harnessing AI to transform hydropower

Janice Goodenough, CEO of HYDROGRID, offers valuable insights into the transformative role of AI and machine learning in hydropower management.

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Bridging the gap

As the climate crisis intensifies, AI-based water forecasting and modelling will play a defining role in mitigating risks, optimising water resource management, and enhancing resilience. Laura Read, Head of Product Strategy at Upstream Tech, explains how AI is building resilience for hydropower

Construction equipment

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Terrain transport solutions

Cable crane systems can help to overcome many construction challenges in often inaccessible places. The LCS Cable Crane Company gives an insight into some of the projects it has carried out in recent years

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Early breakthrough in Nepal

Successful project completion at the Sunkoshi Marin Diversion Multipurpose Project leads the way for TBM technology in Nepal

Refurbishment

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Grand remediation

BAUER has been carrying out work in the Dominion Republic and Nepal

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Lessons and opportunities

Lessons from weir remediation and opportunities for micro hydro projects

Fish passage

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Addressing impacts

Declining fish populations due to the impact of dams have been put under the spotlight

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Inspired from a young age

Gia Schneider, co-founder and Chief Commercial Officer at Natel Energy, discusses her career in renewable energy, the innovative solutions her company offers for sustainable hydropower, and her vision for the future of the industry

Energy storage

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Offering a guiding hand

A new industry collaborated guide gives recommendations for delivering the energy storage solution the world needs - pumped storage.. To be in with a chance of meeting net zero goals by 2050, policymakers and the industry are being urged to act upon them

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Salt dome storage

Cavern Energy Storage is pioneering underground pumped storage hydroelectric technology in the Gulf Coast by utilizing natural salt domes. This innovative approach could provide the region with 50GW of long-duration energy storage, leveraging a resource lying beneath our feet

Young professionals

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Empowering the next generation

Members of the industry share their views on the importance of encouraging young professionals within the sector

Large dams

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Quantifying impacts

Research into large dams has recently focused on the extent of local energy benefits for communities surrounding hydro projects, as well as their impact on the aquatic food web

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Spotlight on large dams

IWP&DC put the spotlight on some of the largest and most significant dam projects completed globally in recent years. Many of these dams are located in developing countries and are aimed at increasing hydroelectric power generation capacity to meet growing energy demands