

Cover Story

Las Cruces dam is one of the six medium-height dams (50-60m) in Panama with the least social impacts and land use change in the region

5 World News

Global Hydropower Day to be held 11 October 2022; Nant de Drance placed into operation; More hydro needed in Africa says report

8 Spotlight

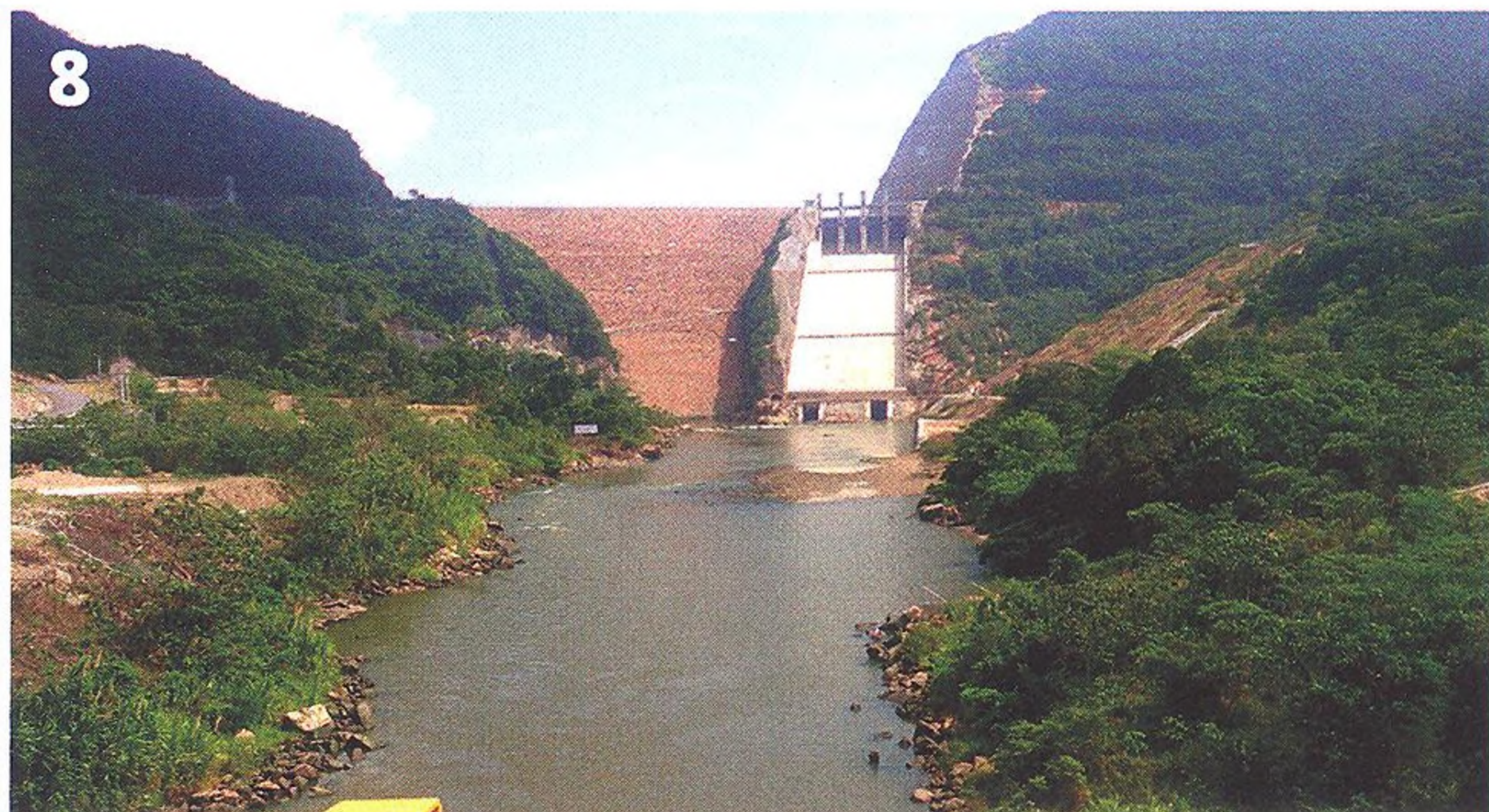
IWP&DC profiles the top five hydroelectric generating countries in South America: Brazil; Venezuela; Colombia; Argentina; and Paraguay

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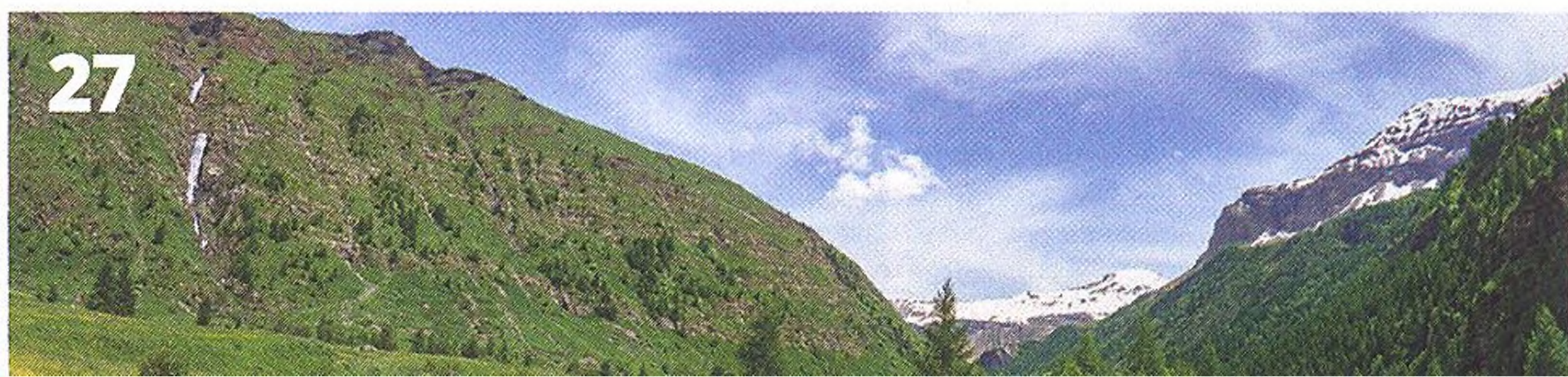
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Central and South America

10 Panama Power

Panama continues to rely heavily on hydropower for its energy needs. Last year it provided 71 per cent of the country's electricity generation. According to the 2022 Hydropower Status Report from the International Hydropower Association, Panama is ranked fifth out of 18 countries across North and Central America for its total installed hydropower capacity of 1754MW. Here, Ambrosio Ramos, Secretary General of the Panamanian Committee of Dams, gives more details about the country's hydropower dam development.

Projects

12 Flood frequency estimation at Todd Brook

Colin Clark provides details on a flood frequency estimation of Todd Brook UK following the Whaley Bridge incident in July 2019

Dam safety

22 Measuring up

Edelvays Spassov from Kinometrics gives an overview of the company's dam seismic monitoring activities.

24 Know your risk and know your role

The importance of reviewing incident responses, promoting greater awareness, and concerns about dam safety in the Ukraine, are all featured here in IWP&DC's industry inspection.

Innovation

27 Hydro powers innovation

Innovative developments in electric vehicle charging and battery energy storage are one step closer to reality thanks to hydropower.

28 eDNA transforms reporting on nature

Developments in environmental DNA technology are helping to transform complex natural systems into a new data layer for the hydro industry

Water resources

30 Developing Dongtaizi

The Dongtaizi Reservoir is a crucial water conservancy project being developed in China. Bentley's OpenRoads Designer and OpenBuildings played an important role in the reservoir's design