

Cover Story

Kühtai 2 project expands Austria's energy, utilizing advanced Volvo construction equipment for challenging terrain work

5 World News

Global Alliance for Pumped Storage launched at COP29 to boost energy security EIB approves €300 million loan for Salto de Chira project

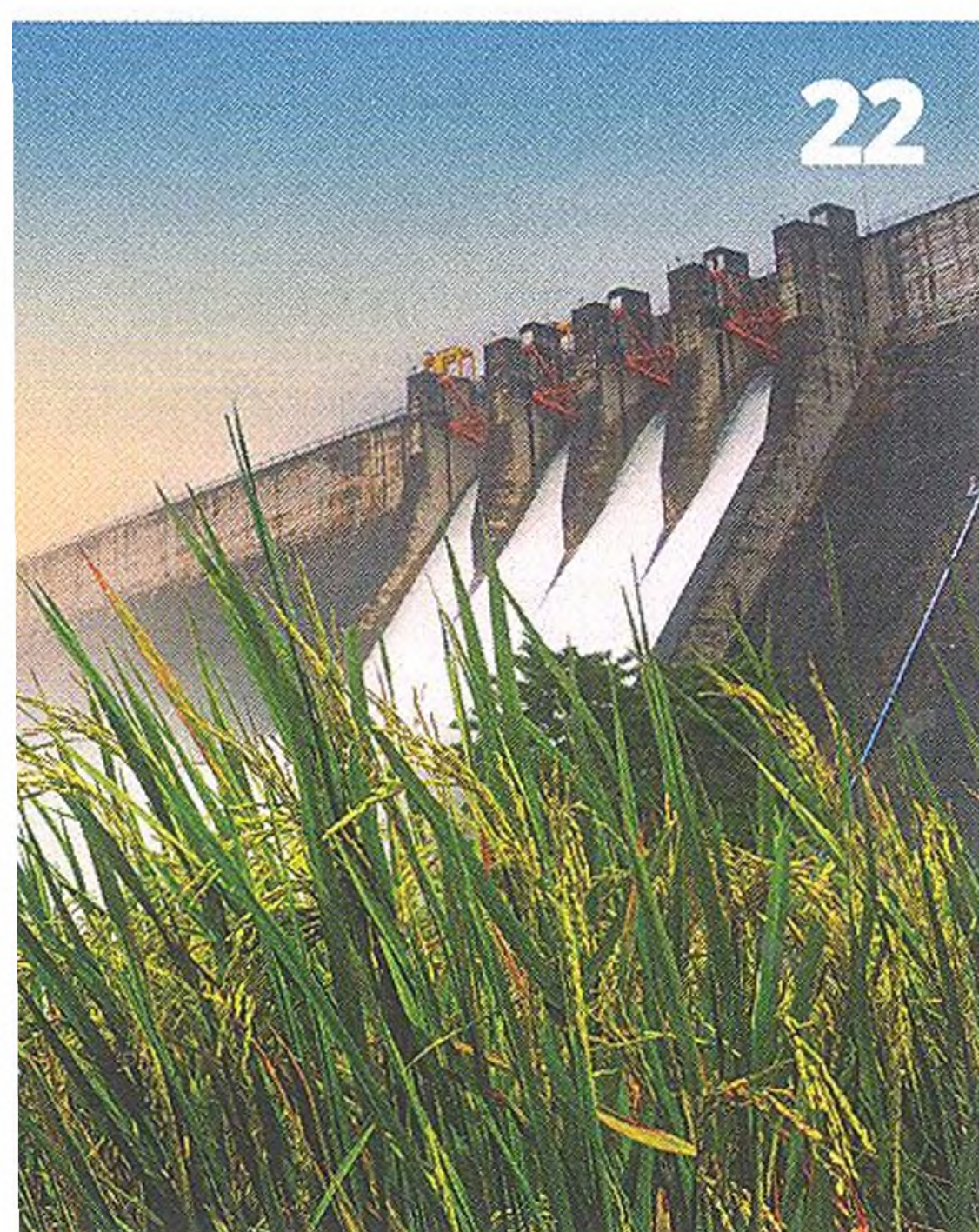
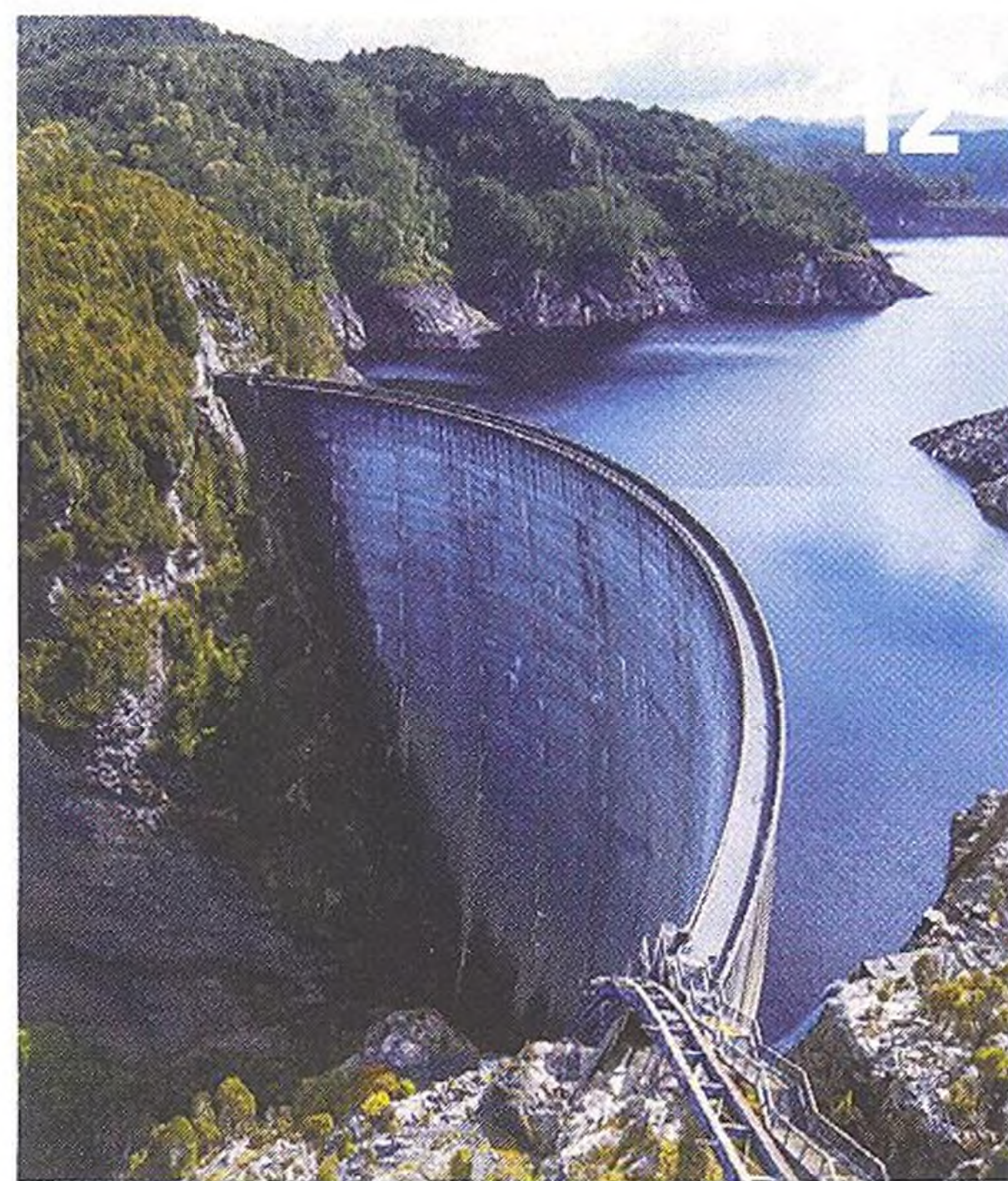
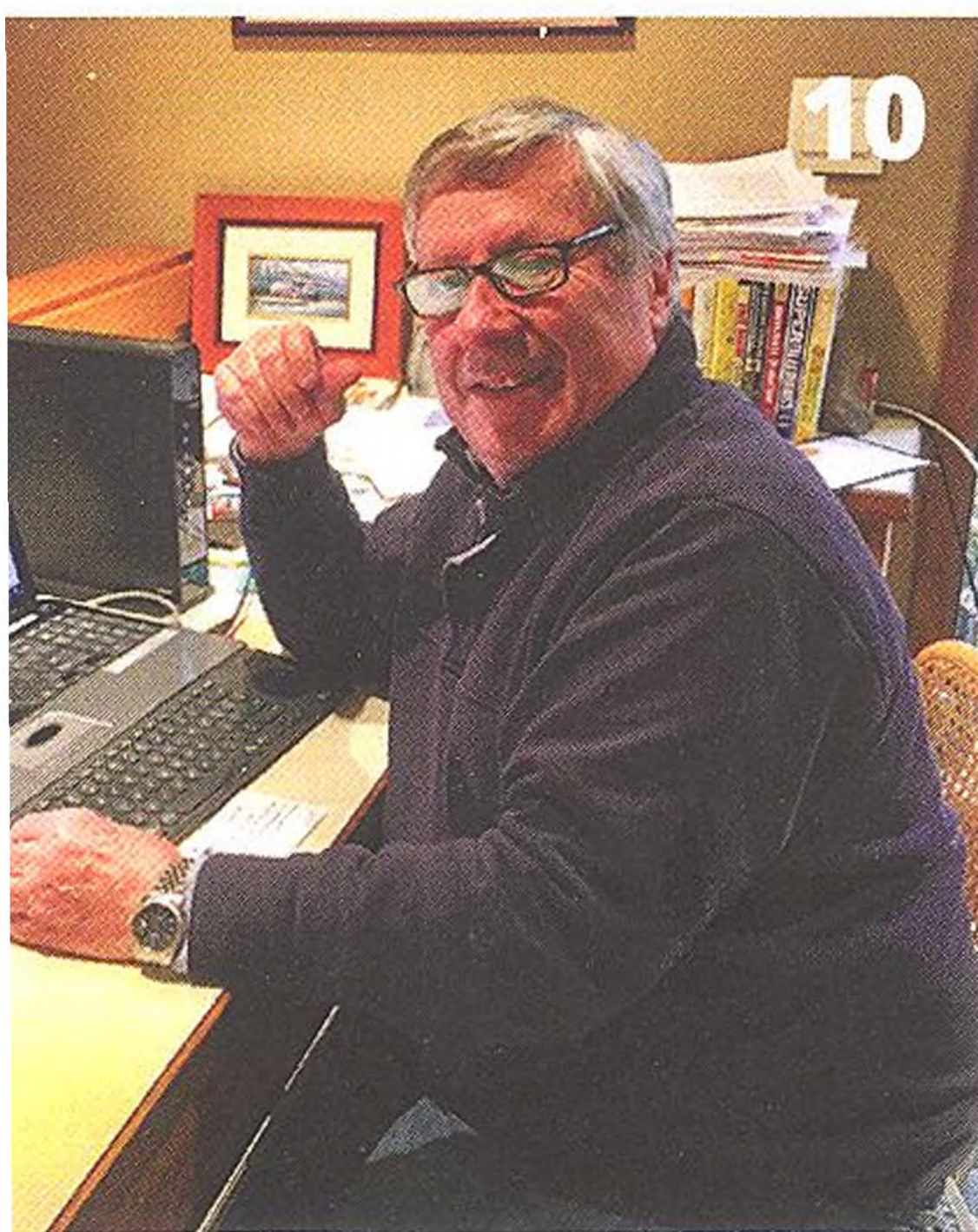
10 Spotlight

US energy transition faces fragmented policies, complex regulations, and state conflicts, slowing carbon-free goals writes Stephen O Simmons

40
Classified

42
Contacts

features



Australasia

12 Insights from ANCOLD Chair

Angus Swindon provides insight into his current role and previous experience.

14 Facing up to the change

The impact of climate change in Australia and New Zealand

Design

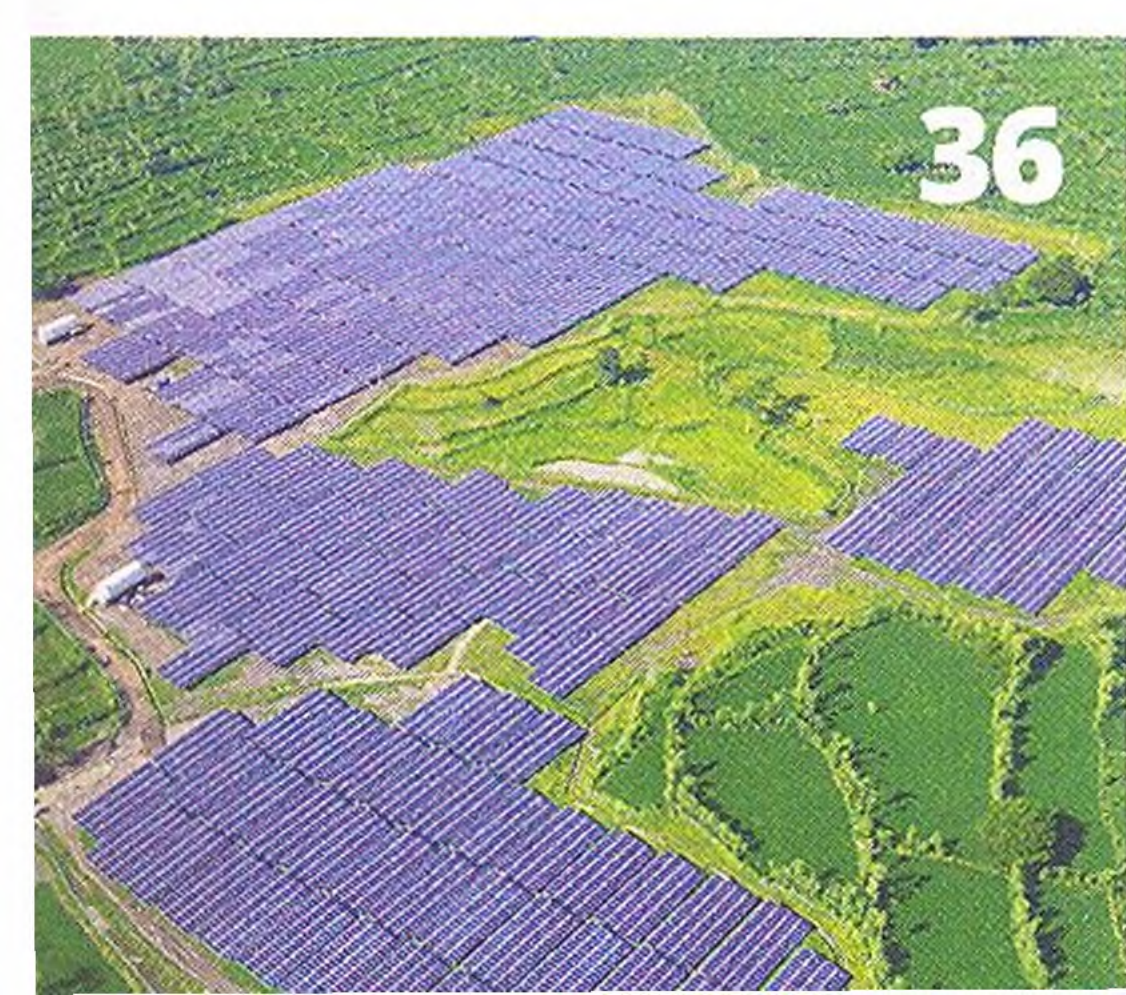
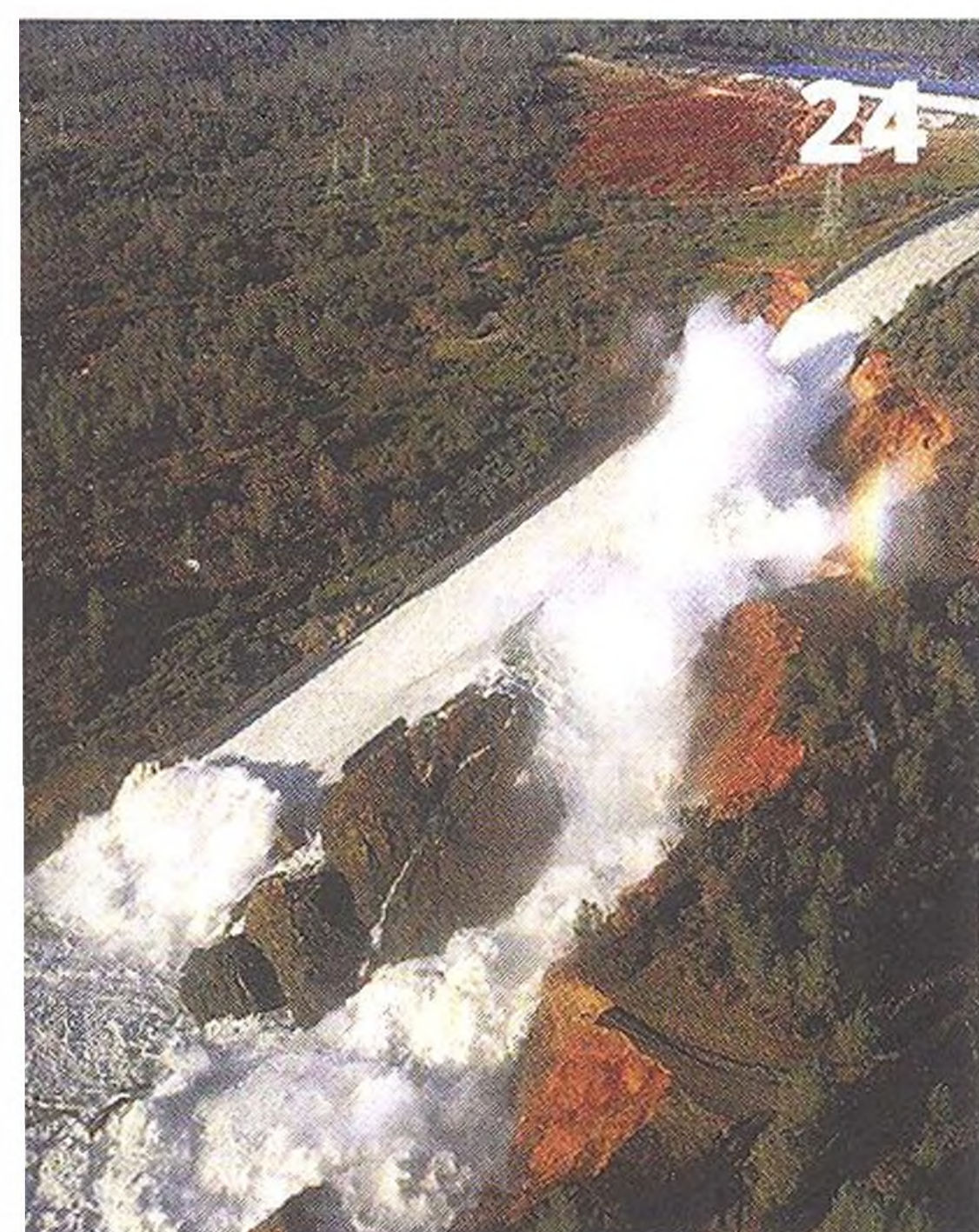
18 Climate redesign

Designing flood control infrastructure with a focus on climate-resilience

Multi-purpose projects

22 Full of purpose

The value of converting single purpose reservoirs into multi-use ones is being investigated in the US. There is also major potential for storage-fed irrigation at hydroelectric dams



Inspection tools & technologies

24 How AI enhances inspections

As energy demand rises, AI improves hydropower and dam inspection by enhancing efficiency, safety, sustainability, and predictive maintenance

26 Drones transform plant inspections

In Sweden, a hydro station is being mapped by drones

28 Revolutionizing disaster response

During hurricanes Helene and Milton, Satelytics used AI and satellite imagery to assist Duke Energy in rapid disaster response. Founded by Sean Donegan, Satelytics provides proactive solutions across industries, from detecting infrastructure issues to supporting sustainability. Their technology helps ensure efficiency and minimizing environmental impact

Construction

32 Machines help fuel green power

The Kühtai 2 project in Austria expands TIWAG's Sellrain-Silz power plants, adding a third reservoir and pumped storage facility. Utilizing advanced Volvo machinery, it exemplifies sustainable construction and strategic partnerships in high-altitude conditions

Refurbishment

35 Expert team powers turbine overhaul

Collaboration, experience and expertise were at the heart of the Unit 1 turbine generator overhaul at Maentwrog hydroelectric power station in North Wales

Floating solar

36 Going with the flow

The potential of floating solar projects is being studied worldwide