Pumped hydro storage sarajevo

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Norwegian energy giant Statkraft announced in September 2023 that it is evaluating the possibility of expanding the hydropower fleet on the Devoll river cascade, by adding a new PSH facility. The expected capacity of the plant will be around 1,200MW. The reservoir will exploit the natural flat morphology of the upper part of the valley, located around 8km east of the existing Moglic? Dam. The feasibility study phase is expected to end in 2024. The implementation phase could start as soon as 2025, with the plant reaching commercial operations by 2030

The 2,070MW La?ca hydropower station in Angola, constructed by ANDRITZ, is now fully operational, contributing to the country's energy supply and socioeconomic development, with plans for a green hydrogen project in partnership with German companies. Angola is also embarking on ambitious hydropower projects like the 2,172MW Caculo-Cabaca hydropower station in collaboration with China. It is also aiming to connect to the Southern African Power Pool to enhance regional power integration and meet growing demand.

Argentina"s 750MW R?o Grande de C?rdoba plant, the largest PSH project in South America, is set for a major upgrade. Currently operating at only 50% efficiency due to ageing infrastructure, a US$100 million investment aims to modernise the facility, restoring its full operational potential. The 1,310MW hydropower development of the Santa Cruz River has reached 50% of construction progress.

The complex will include the 950MW Presidente N?stor Kirchner plant equipped with five Francis turbines, and the 360MW Governor Jorge Cepernic plant, featuring three Kaplan turbines. Together, they are expected to generate up to 5TWh annually. This large-scale investment, nearing US$5 billion, is 70% financed by the China Gezhouba Group Company Limited, in partnership with Argentine firms. It will supply electricity to over a million homes in the country.

Australia continues to promote clean energy and to phase out coal capacity, with energy storage playing a critical role in its push towards a renewable energy future in the country. The Queensland Premier has allocated another A$13m in the state budget to accelerate key technical studies to enable a final investment decision to advance the 1 GW/24 GWh Borumba PSH project near Gympie in the state"s south-east.

Queensland"s mid-coast is set to provide 5 GW of storage - enough to supply half of Queensland"s entire energy needs. Stage one of the Pioneer-Burdekin pumped hydro project, said to be part of the largest pumped hydro energy storage scheme in the world (according to Queensland"s premier), was announced in September 2022 and is estimated to be completed in 2032, with the final stage operational by 2035.

President Ilham Aliyev outlined in October 2023 that Azerbaijan is seeking to expand its hydropower capacity from 170MW to 500MW within two to three years. He said this progress will represent "another important contribution to the green energy transition

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As of August 2023, the 1,020MW Punatsangchhu-II hydropower project was 95% complete. In February 2024, the successful reservoir filling was marked with a ceremony to coincide with the King"s birthday. The project is aiming to commission its generating units by the end of 2024. Meanwhile, the 118MW Nikachhu dam was commissioned in November 2023. Electricity was exported to India in late January 2024.

Similarly, progress on the Miguillas hydropower complex is underway, consisting of two systems: Umapalca (86MW) and Palillada (119MW). The former has achieved 62% construction completion, while the latter is at 23%. The commissioning of these plants is anticipated for October 2025 and December 2026 respectively

In 2023, hydropower contributed to 67% of Brazil"s total electricity generation. Throughout the year, the country connected numerous small-scale hydropower projects to the grid, adding a total of 118MW in installed capacity, bringing the total number of operating projects in the country to 1,330. Additionally, 34 projects totalling 438MW are in advanced construction stages, while 70 projects totalling 1,249MW received licensing approval and began construction.

With these developments, over 60% of Brazil's estimated 172GW hydropower potential has already been developed. In addition to new projects, the hydropower sector is actively engaged in modernisation initiatives. In June, turbine No. 3 at the 1,551MW Jupi? plant, operated by CTG Brasil, underwent successful upgrades. Following this, in August, ENGIE Brasil Energia has contracted ANDRITZ for the renovation of the 424MW Jaguara plant.

Hydroneo East Africa's call for tenders for the Mpanda hydroelectric power station in Burundi marks a significant step, with plans to supply 10% of the country's electricity through a public-private partnership (PPP) with REGIDESO. This initiative is part of Burundi's broader efforts to bolster renewable energy capacity, also evidenced by upcoming projects like the regional Rusumo Falls plant and the Dama and Siku hydroelectric stations, supported by the International Finance Corporation (IFC).