



# Bui power authority Ghana

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The Bui Dam is a 400-megawatt (540,000&#160;hp) hydroelectric project in Ghana. It is built on the Black Volta river at the Bui Gorge, at the southern end of Bui National Park. The project was a collaboration between the government of Ghana and Sino Hydro, a Chinese state-owned construction company. Construction on the main dam began in December 2009. Its first generator was commissioned on 3 May 2013,&#91;4&#93; and the dam was inaugurated in December of the same year.&#91;5&#93;

Bui is the second largest hydroelectric generating plant in the country after the Akosombo Dam. The reservoir flooded about 20% of the Bui National Park and impacted the habitats for the rare black hippopotamus as well as a large number of wildlife species. It required the resettlement of 1,216 people,&#91;6&#93; and affected the lives and livelihoods of many more.

To boost the Bui dam's overall electricity generation without affecting the water reservoir, a 50-megawatt (MW) solar power plant was built on land 3km from the dam. The solar plant was commissioned in November 2020.&#91;17&#93;

The dam's spillway near the right bank consists of five radial gates, each 15 metres (49&#160;ft) wide. The spillway sits at an elevation of 169 metres (554&#160;ft) and has a maximum discharge of 10,450 cubic metres per second (369,000&#160;cu&#160;ft/s) which correlates to a 1-in-10,000 year flood. The dam's outlet works consist of a single outlet on the right bank converted from one of the diversion tunnels.&#91;3&#93;



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