

Bui power authority Ghana

The Bui Dam is a 400-megawatt (540,000 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,[4] and the dam was inaugurated in December of the same year.[5]

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,[6] 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.[17]

The dam's spillway near the right bank consists of five radial gates, each 15 metres (49 ft) wide. The spillway sits at an elevation of 169 metres (554 ft) and has a maximum discharge of 10,450 cubic metres per second (369,000 cu 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.[3]



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