

Wangchhu Hydroelectric Project

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Wangchhu Hydroelectric Project Latest News

Hindustan Construction Company (HCC) recently secured a contract worth Rs 127 crore from Wangchhu Hydroelectric Power (WHPL), Bhutan, for construction works related to the Wangchhu Hydroelectric Project.

About Wangchhu Hydroelectric Project

- It is a **570 MW run-of-river** hydropower project being built on the **Wangchu River**/basin in Chukha District, **Bhutan**.
 - The Wangchu River (also called **Raidāk River in India**) is a significant **tributary of the Brahmaputra** River.
- It is being **developed by Wangchhu Hydroelectric Power Limited (WHPL)**, a **joint venture** company formed by **India's Adani Power Limited (APL)** and **Bhutan's state-owned Druk Green Power Corporation Ltd (DGPC)**.
- **DGPC** holds a controlling **51% stake** in the venture, with Adani Power owning the remaining 49%.
- The project, valued at Rs 6,000 crore, will follow a **Build, Own, Operate, Transfer (BOOT) model**.

- Under the BOOT framework, **Adani Power will construct, operate, and manage** the project for a **fixed period before transferring ownership to the Bhutanese government**.
- It is the first initiative under a Memorandum of Understanding (MoU) signed in May 2025 between Adani Power and DGPC to jointly develop 5,000 MW of hydropower capacity in Bhutan.
- The facility will function as a peaking run-of-river plant, helping Bhutan manage seasonal fluctuations in hydropower generation.
- The facility will feature four turbines, each rated at 142.5 MW, producing roughly 2,478.93 GWh annually.
- It is designed to **meet Bhutan's peak winter electricity demand** while **exporting surplus power to India during the summer months**.

Source: BS

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