

Lower Subansiri Hydroelectric Project

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Lower Subansiri Hydroelectric Project Latest News

India's largest hydroelectric project, the 2000-MW Subansiri Lower Hydroelectric Project, has begun its commissioning phase.

About Lower Subansiri Hydroelectric Project

- It is a **2000 MW run-of-the-river hydro project** being constructed on the **Subansiri River**, a **tributary of the Brahmaputra**.
- It is located at Gerukamukh on the **Arunachal Pradesh-Assam border**.
- It will be the **single largest hydroelectric plant in India** when completed.
- The project is being developed by the state-run **National Hydro Power Corporation (NHPC)**.
- The **construction** of the project has been **underway since 2005**.
- The **project cost** was met through **70% equity and 30% debt financing** by the provision of a term loan. The **central government is providing budgetary support** as part of the equity component.

Lower Subansiri Hydroelectric Project Features

- It consists of a **concrete gravity dam**, which will be 116 m high from the riverbed level and 130 m from the foundation.
- The length of the dam will be 284 m. The gross storage capacity of the reservoir will be 1.37 km³.
- The powerhouse will comprise **eight Francis-type turbines** capable of generating **250 MW of electricity each**.
- It will also have eight horseshoe-shaped headrace tunnels, eight horseshoe-shaped surge tunnels , and eight circular penstocks.
- A tailrace channel (35 m long and 206 m wide) will take the water discharged by the turbines back to the river.

Source: TOI

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