

## **TEHRI PUMPED STORAGE PLANT (1000 MW) (UNDER OPERATION)**

The Tehri Pumped Storage Plant (PSP), India's first 1000 MW Variable Speed Pumped Storage Plant, is designed to generate 1000 MW of peaking power to enhance grid reliability and balance intermittent renewable (Solar & wind) generation during off-peak hours. The project utilizes the reservoirs created by the Tehri Dam and Koteshwar Dam as the upper and lower reservoirs, respectively, facilitating efficient pumped storage operations.

Tehri PSP comprises four reversible units of 250 MW each, housed in an underground machine hall on the left bank of river Bhagirathi. A key technical feature of the project is the substantial head variation of about 90 m between the maximum and minimum operating head of the reversible units. With an Annual Generation capacity of 2441.75 million units (MU) and an approximate round-trip efficiency of 79.41%, the Tehri PSP will efficiently convert off-peak energy to peak energy.

### **COMMISSIONING OF THE PROJECT**

Presently, all four units (Unit I to IV) have been successfully declared commercially operational with effect from w.e.f. 07.06.2025, 10.07.2025, 12.12.2025 & 12.04.2026 respectively. With this, the Tehri PSP stands fully commissioned as of 12.04.2026.

### **Generation details:**

Details of generation and Pumping energy from Tehri Pump storage plant (1000 MW) are as under:

<b>S.No.</b>	<b>Years</b>	<b>Generation (MU)</b>	<b>Pumping (MU)</b>
1	2025-26	1218.60	1323.36
<b>Total</b>		<b>1218.60</b>	<b>1323.36</b>

The details of generation and Pumping energy from Tehri Pump storage plant (1000 MW) for the current F.Y. 2026 - 27 are as under:

<b>S.No.</b>	<b>Quarter/ Month</b>	<b>Generation (MU)</b>	<b>Pumping (MU)</b>
1	Apr'26	106.71	137.45
<b>Total (up to Apr'26)</b>		<b>106.71</b>	<b>137.45</b>

### **TARIFF:**

THDCIL filed a tariff petition no. 816/GT/2025 before Hon'ble CERC for determination of tariff of the first three units of Tehri PSP, for the period from 07.06.2025 to 31.03.2029. The tariff in the above petition is yet to be approved by Hon'ble CERC. The last unit of Tehri PSP has also achieved commercial operation, and preparation of the tariff petition for the same is presently under process.