

**GOVERNMENT OF INDIA
MINISTRY OF POWER
LOK SABHA
UNSTARRED QUESTION NO.848
ANSWERED ON 07.12.2023**

GENERATION OF HYDROPOWER

†848. SHRI MANSUKHBHAI DHANJIBHAI VASAVA:

**Will the Minister of POWER
be pleased to state:**

- (a) whether the required amount of hydropower is not being generated despite immense potential of the same in the country;
- (b) if so, the details of currently explored and exploited hydropower generation potential in the country, State/UT-wise; and
- (c) the details of the steps being taken by the Government to increase the generation of hydropower?

A N S W E R

THE MINISTER OF POWER AND NEW & RENEWABLE ENERGY

(SHRI R.K. SINGH)

(a) : The generation from hydro electric projects in the country against the target set by the Central Electricity Authority during the last 3 years and the current year is as under:

Year	Target Generation (in Billion Units)	Actual Generation (in Billion Units)	Achievement against Target
2020-21	140.4	150.3	+7.1%
2021-22	149.5	151.6	+1.4%
2022-23	150.7	162.1	+7.6%
2023-24 (till Oct 2023)	114.2	102.3	-10.4%

Thus, the hydropower generation has consistently exceeded the targets. During the current year, it is less mainly due to floods during July 2023 in Himachal Pradesh and Uttarakhand and devastating floods in Sikkim during October 2023, which affected generation as planned.

(b) : As per the reassessment study carried out by the Central Electricity Authority during the period 2017-2023, the exploitable hydro power potential in the country is about 1,33,410 MW, out of which 42,105 MW has been harnessed.

The State/ UT-wise hydro power potential and its status of development in the country is attached at Annexure.

(c): The Government of India has taken various policy measures to increase the generation from hydro power. These measures would not only help in development of the upcoming hydro power projects but also improve the generation. Some of the measures taken are as under:

- i. Declaration of large hydro power projects (of more than 25 MW capacity) as renewable energy source**
- ii. Notification of Hydro Purchase Obligations (HPO)**
- iii. Waiver of Inter State Transmission System (ISTS) charges for Hydro Power Projects and Pumped Storage projects (PSPs)**
- iv. Tariff rationalization measures for bringing down the tariff during the initial years**
- v. Budgetary support for flood moderation component of hydro power projects**
- vi. Budgetary support for construction of enabling infrastructure, i.e. roads/bridges**
- vii. Empanelment of Independent Engineer(s) and Conciliation Committee of Independent Experts for expeditions resolution of contractual disputes in hydro power projects**
- viii. Issuance of guidelines on 10.04.2023 to promote Pumped Storage Projects**

**ANNEXURE REFERRED TO IN REPLY TO PART (b) OF UNSTARRED QUESTION
NO. 848 ANSWERED IN THE LOK SABHA ON 07.12.2023**

STATUS OF LARGE HYDRO ELECTRIC POTENTIAL DEVELOPMENT

(In terms of Installed capacity - Above 25 MW)

Region/ State	Exploitable Identified Capacity as per Reassessment Study	Capacity In Operation	Capacity Under Active Construction	Capacity on which Construction is held up	H.E. Projects concurred by CEA and yet to be taken up for construction	H.E. Projects under Examination in CEA	H.E. Projects returned to project authorities	H.E. Projects under Survey & Investigation	H.E. Projects allotted for dev on which S&I is held up/ yet to be taken up
	(MW)	(MW)	(MW)	(MW)	(MW)	(MW)	(MW)	(MW)	(MW)
NORTHERN									
Jammu & Kashmir	12265	3360	3052	48	3119	0	390	1060	370
Ladakh	707	89	0	0	0	0	0	95	0
Himachal Pradesh	18305	10263	2446	44	937	0	400	1144	2700
Punjab	1301	1096	206	0	0	0	0	0	0
Haryana	0	0	0	0	0	0	0	0	0
Rajasthan	411	411	0	0	0	0	0	0	0
Uttarakhand	13481	3975	1324	247	815	0	939	732	628
Uttar Pradesh	502	502	0	0	0	0	0	0	0
Sub Total (NR)	46971	19696	7028	339	4871	0	1729	3031	3698
WESTERN									
Madhya Pradesh	2819	2235	0	400	0	0	0	0	0
Chhattisgarh	1311	120	0	0	0	0	0	0	0
Gujarat	550	550	0	0	0	0	0	0	0
Maharashtra	3144	2647	0	0	0	0	0	0	0
Goa	0	0	0	0	0	0	0	0	0
Sub total (WR)	7824	5552	0	400	0	0	0	0	0
SOUTHERN									
Andhra Pradesh	2596	1610	1190	0	0	0	0	0	0
Telangana	1302	800	0	0	0	0	320	0	0
Karnataka	4414	3689	0	0	0	0	665	0	0
Kerala	2473	1864	140	0	0	0	0	800	0
Tamil Nadu	1785	1778	0	0	0	0	0	0	0
Sub Total (SR)	12570	9742	1330	0	0	0	985	800	0
EASTERN									
Jharkhand	300	210	0	0	0	0	0	0	0
Bihar	130	0	0	0	0	0	130	0	0
Odisha	2825	2155	0	0	0	0	0	0	0
West Bengal	809	441	120	0	0	0	0	90	0
Sikkim	6051	2282	620	417	520	0	0	0	0
Sub Total (ER)	10115	5088	740	417	520	0	130	90	0
NORTH EASTERN									
Meghalaya	2026	322	0	0	85	0	0	270	170
Tripura	0	0	0	0	0	0	0	0	0
Manipur	615	105	0	0	0	0	0	0	0
Assam	643	350	120	0	0	0	60	0	0
Nagaland	325	75	0	0	186	0	0	0	0
Arunachal Pradesh	50394	1115	4880	0	13798	0	5323	14599	1520
Mizoram	1927	60	0	0	0	0	0	0	0
Sub Total (NER)	55930	2027	5000	0	14069	0	5383	14869	1690
ALL INDIA	133410	42105	14098	1156	19460	0	8227	18790	5388
