

**GOVERNMENT OF INDIA
MINISTRY OF POWER
LOK SABHA
UNSTARRED QUESTION NO.1550
ANSWERED ON 15.12.2022**

HYDROELECTRIC POWER PRODUCTION

1550. SHRI INDRA HANG SUBBA:

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

- (a) the details of hydroelectric power production in each State of the country during the last five years, State/UT and year-wise;**
- (b) the quantum of surplus electricity generated in the country; and**
- (c) the policy interventions done by the Government during the last five years to improve electricity production from clean sources?**

A N S W E R

THE MINISTER OF POWER AND NEW & RENEWABLE ENERGY

(SHRI R.K. SINGH)

- (a) : State/UT-wise details of hydroelectric power production in the country during the last five years and the current year are given at Annexure.**
- (b) : Generation is based on the demand of power. The actual generation from hydro projects during the years 2017-18, 2018-19, 2019-20, 2020-21 and 2021-22 was 89.28%, 103.76% 113.76%, 107.08% and 101.39% of the target.**
- (c) : The following measures have been taken to promote renewable energy in the country:**
 - Declaration of a Renewable Purchase Obligation (RPO) trajectory up to the year 2029-30.**
 - Waiver of Inter State Transmission System (ISTS) charges for solar, wind and hydro projects.**

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- **Setting up of Ultra Mega Renewable Energy to provide land and transmission to RE developers on a plug and play basis.**
- **Schemes such as Pradhan Mantri Kisan Urja Suraksha evam Utthaan Mahabhiyan (PM-KUSUM), Solar Rooftop Phase II, 12000 MW CPSU Scheme Phase II.**
- **Laying of new transmission lines and creating sub-stations capacity under the Green Energy Corridor Scheme for evacuation of renewable power.**
- **Notification of standards for deployment of solar photovoltaic system/devices.**
- **Setting up of Project Development Cell for attracting and facilitating investments.**
- **Permitting of Foreign Direct Investment (FDI) under the automatic route.**
- **Standard Bidding Guidelines for tariff based competitive bidding process for procurement of power from Grid Connected Solar PV and Wind.**
- **Government has issued orders that power shall be dispatched against Letter of Credit (LC) or advance payment to ensure timely payment by distribution licensees to RE generators.**
- **Notification of Promoting Renewable Energy through Green Energy Open Access Rules 2022.**
- **Launch of Green Term Ahead Market (GTAM) and Green Day Ahead Market (GDAM) to facilitate sale of Renewable Energy through exchanges.**
- **Declaration of Large Hydro Power (LHPs) (> 25 MW projects) as Renewable Energy sources.**
- **Provision of budgetary support for Flood Moderation and enabling Infrastructure, i.e. roads/bridges of Hydro Electric Projects (HEPs).**

ANNEXURE

ANNEXURE REFERRED TO IN REPLY TO PART (a) OF UNSTARRED QUESTION NO.1550 ANSWERED IN THE LOK SABHA ON 15.12.2022

STATE-WISE GENERATION OF H.E.STATIONS (>25 MW) IN THE COUNTRY DURING LAST FIVE YEARS AND THE CURRENT YEAR 2022-23 (TENTATIVE AS ON 30.11.2022)							
NAME OF STATE/UT	INSTALLED CAPACITY AS ON 30.11.2022 (MW)	Generation (Million Units)					
		2017-18	2018-19	2019-20	2020-2021	2021-22	2022-23 (tentative as on 30.11.2022)
		ACTUAL	ACTUAL	ACTUAL	ACTUAL	ACTUAL	ACTUAL
Himachal Pradesh	10263	38783	35908.57	40834.88	37473.47	36459.64	32732
Jammu & Kashmir	3360	14793.01	16387.07	18094	17002.68	17074.02	14102
Ladakh	89	144.55	154.51	270.28	376.21	405.98	343
Punjab	1096.3	4724.3	4335.4	5123	4747.03	3709.73	3065
Rajasthan	411	819.53	698.4	606	469.63	481.84	508
Uttar Pradesh	501.6	1486.69	1176.36	1073	1572.35	1402.68	588
Uttarakhand	3975.35	13983.61	13741.1	14555	13592	14332.13	12330
Chhatisgarh	120	178.07	243.08	237	419.19	404.13	196
Gujarat	1990	1551.92	1042.81	5415	4233.36	2621.51	4919
Madhya Pradesh	2235	2586.81	3396.67	6282	6477	4686.72	5471
Maharashtra	3047	4861.12	5076.86	5881	5548.46	6007.38	4036
Andhra Pradesh	1610	2268.8	2272.94	3013	3280.12	3113.83	2920
Karnataka	3689.2	7142.62	12187.69	14014.27	12587.35	13936.46	8925
Kerala	1864.15	5199.26	7320.21	5454.04	6628.39	9317.44	6094
Tamil Nadu	2178.2	2919.6	5281.59	4765.24	5212.71	5212.07	4237
Telangana	2405.6	1491.98	1744.61	4507.04	3645.38	5626.63	5367
Jharkhand	210	332.32	180.98	150.96	223.09	547.96	280
Odisha	2154.55	6022.99	6777.45	6728.77	6859.97	5230.63	4247
Sikkim	2282	8887.99	9022.07	11027.36	10879.5	11493.9	10468
West Bengal	1341.2	2278.45	2919.81	2916.38	3212.28	3189.84	2636
Arunachal Pradesh	1115	1416.74	1399.01	1786.46	3451.34	4161.28	4054
Assam	350	1918.58	1694.36	1291.68	270.87	676.24	409
Nagaland	75	274.39	231.47	180.85	203.86	100.55	158
Manipur	105	837.74	602.61	366.59	621.62	455.48	426
Meghalaya	322	1140.26	929.53	1018.29	1151.99	841.82	852
Mizoram	60	78.37	168.44	177.02	158.85	137.44	155
Total	46850.15	126122.7	134893.61	155769.12	150299.52	151627.33	129515.87
