

**GOVERNMENT OF INDIA
MINISTRY OF POWER
LOK SABHA
UNSTARRED QUESTION NO.1393
ANSWERED ON 10.02.2022**

SCHEMES FOR POWER GENERATION

†1393. SHRI GOPAL CHINNAYA SHETTY:

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

- (a) whether there has been a significant increase in the generation of thermal power, solar power, nuclear power and hydro power during the last five years;**
- (b) if so, the details thereof;**
- (c) whether there are several development schemes proposed in the said power sectors; and**
- (d) if so, the details of the proposed schemes for power generation, State, source and capacity-wise?**

A N S W E R

THE MINISTER OF POWER AND NEW & RENEWABLE ENERGY

(SHRI R.K. SINGH)

(a) & (b) : Yes, Sir. The details thereof are given at Annexure-I.

(c) & (d) : Yes, Sir. The details of the development schemes and projects are given at Annexure-II.

ANNEXURE-I**ANNEXURE REFERRED TO IN REPLY TO PARTS (a) & (b) OF UNSTARRED
QUESTION NO. 1393 ANSWERED IN THE LOK SABHA ON 10.02.2022**

Details of power generation from fuel sources (Thermal, Nuclear & Renewable including large Hydro) from the year 2016-17 to 2020-21:

FUEL	Generation Million Units (MU)	
	2016-17	2020-21
THERMAL	994230.17	1032513.54
NUCLEAR	37915.87	43029.08
HYDRO (Large)	122377.56	150299.52
IMPORT from BHUTAN	5617.34	8765.50
HYDRO (Small)	7672.66	10258.41
TOTAL (Hydro including Import)	135667.56	169323.43
SOLAR	13499.41	60402.26

Note:

- 1. Gross Generation from fuel sources (Thermal, Nuclear, Hydro & Solar) power stations**
- 2. Large Hydro : Stations of 25 MW & above capacity.**

**ANNEXURE REFERRED TO IN REPLY TO PARTS (c) & (d) OF UNSTARRED
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(i) Thermal :

Presently, 21 Thermal Power Projects with capacity of 26,860 MW are under construction.

The details of under construction thermal power projects are given at Appendix-A.

(ii) Hydro (25 MW & above) :

At present, there are 27 Hydro Electric Projects (above 25 MW capacity) totalling to 11,427.50 MW under construction. The details of these projects are given at Appendix-B.

(iii) Nuclear :

At present, 06 Nuclear Power Projects with a capacity of 8700 MW are under various stages of construction in the country, the details of which are given at Appendix-C. Also, 05 Nuclear Power projects totalling to 7000 MW have been accorded Administrative Approval and Financial Sanction and are expected to be commissioned by 2031, details of which are given at Appendix-D.

(iv) Solar:

Schemes such as Solar Parks, Pradhan Mantri Kisan Urja Suraksha evam Utthaan Mahabhiyan (PM-KUSUM), Solar Rooftop Phase II, 12000 MW CPSU Scheme Phase II, etc, have been implemented by the MNRE, to promote solar energy development in the country.

APPENDIX REFERRED TO IN REPLY TO ANNEXURE-II OF UNSTARRED QUESTION NO. 1393 ANSWERED IN THE LOK SABHA ON 10.02.2022

Details of Under Construction Thermal Power Projects in the country

SL. No.	Project Name	State	Implementing Agency	LOA Date	Unit No	Capacity (MW)
CENTRAL SECTOR						
1	Barh STPP-I	Bihar	NTPC	Mar-05	U-2	660
					U-3	660
2	Nabi Nagar STPP	Bihar	NPGCL (Subsidiary of NTPC)	Jan-13	U-3	660
3	Buxar TPP	Bihar	SJVN	Jun-19	U-1	660
					U-2	660
4	North Karanpura STPP	Jharkhand	NTPC	Feb-14	U-1	660
					U-2	660
					U-3	660
5	Patratu STPP	Jharkhand	PVUNL (JV of NTPC & Jharkhand Bidyut Vitran Nigam Ltd.)	Mar-18	U-1	800
					U-2	800
					U-3	800
6	Rourkela PP-II Expansion	Odisha	NSPCL (JV of NTPC & SAIL)	May-16	U-1	250
7	Ghatampur TPP	Uttar Pradesh	NUPPL (JV of NLC and UPRVUNL)	Aug-16	U-1	660
					U-2	660
					U-3	660
8	Khurja SCTPP	Uttar Pradesh	THDC	Aug-19	U-1	660
					U-2	660
9	Telangana STPP St- I	Telangana	NTPC	Feb-16	U-1	800
					U-2	800
Total Central Sector						12830
STATE SECTOR						
1	Dr. Narla Tata Rao TPS St-V	Andhra Pradesh	APGENCO	Dec-15	U-1	800
2	Sri Damodaram Sanjeevaiah TPP St-II	Andhra Pradesh	APPDCL (JV of APGENCO & ILFS)	Nov-15	U-1	800
3	Jawaharpur STPP	Uttar Pradesh	UPRVUNL	Dec-16	U-1	660
					U-2	660
4	Obra-C STPP	Uttar Pradesh	UPRVUNL	Dec-16	U-1	660
					U-2	660
5	Panki TPS Extn.	Uttar Pradesh	UPRVUNL	Mar-18	U-1	660
6	Ennore SCTPP	Tamil Nadu	TANGEDCO	Sep-14	U-1	660
					U-2	660
7	North Chennai TPP St-III	Tamil Nadu	TANGEDCO	Jan-16	U-1	800
8	Udangudi STPP Stage I	Tamil Nadu	TANGEDCO	Dec-17	U-1	660
					U-2	660
9	Yadadri TPS	Telangana	TSGENCO	Oct-17	U-1	800
					U-2	800
					U-3	800
					U-4	800
					U-5	800
10	Yelahanka CAPP	Karnataka	KPCL	Nov-15	GT+ST	370
11	Bhusawal TPS	Maharashtra	MAHAGENCO	Jan-18	U-6	660
12	Sagardighi Thermal Power Plant Ph-III	West Bengal	WBPDC	Dec-18	U-1	660
Total State Sector						14030
Grand Total						26860

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List of Hydro Electric Projects (above 25 MW) under construction					
Sl. No.	Name of Scheme (Executing Agency)	Sector	District	I.C (No. X MW.)	Cap. Under Execution(MW)
Andhra Pradesh					
1	Polavaram (APGENCO/ Irrigation Dept., AP)	State	East & West Godavari	12x80	960.00
	Sub-total: Andhra Pradesh				960.00
Arunachal Pradesh					
2	Subansiri Lower (NHPC)	Central	Lower Subansiri	8x250	2000.00
	Sub-total: Arunachal Pradesh				2000.00
Assam					
3	Lower Kopli (APGCL)	State	Dima Hasao & Karbi Anglong	2x55+2x2.5+1x5	120.00
	Sub-total: Assam				120.00
Himachal Pradesh					
4	Parbati St. II (NHPC)	Central	Kullu	4x200	800.00
5	Luhri-I (SJVN)	Central	Kullu/Shimla	2x80+2x25	210.00
6	Dhulasidh (SJVN)	Central	Hamirpur/ Kangra	2x33	66.00
7	Uhl-III (BVPCL)	State	Mandi	3x33.33	100.00
8	Shongtong Karcham (HPPCL)	State	Kinnaur	3x150	450.00
9	Bajoli Holi (GMR)	Private	Chamba	3x60	180.00
10	Tidong-I (Statkraft IPL)	Private	Kinnaur	100.00	100.00
11	Kutehr (JSW Energy Ltd)	Private	Chamba	3x80	240.00
	Sub-total: Himachal Pradesh				2146.00
Jammu & Kashmir					
12	PakalDul (CVPPL)	Central	Kishtwar	4x250	1000.00
13	Parnai (JKSPDC)	State	Poonch	3x12.5	37.50
14	Kiru (CVPPL)	Central	Kishtwar	4x156	624.00
15	Ratle (RHEPPL / NHPC)	Central	Kishtwar	4x205 + 1x30	850.00
	Sub-total: Jammu & Kashmir				2551.50
Kerala					
16	Pallivasal (KSEB)	State	Idukki	2x30	60.00
17	Thottiyar (KSEB)	State	Idukki	1x30+1x10	40.00
	Sub-total: Kerala				100.00
Punjab					
18	Shahpurkandi (PSPCL/ Irrigation Deptt., Pb.)	State	Gurdaspur	3x33+3x33+1x8	206.00
	Sub-total: Punjab				206.00
Sikkim					
19	Teesta St. VI NHPC	Central	South Sikkim	4x125	500.00
20	Rangit-IV (NHPC)	Central	West Sikkim	3x40	120.00
	Sub-total: Sikkim				620.00
Tamil Nadu					
21	Kundah Pumped Storage Phase-I,II&III)	State	Nilgiris	4x125	500.00
	Sub-total: Tamil Nadu				500.00
Uttarakhand					
22	Vishnugad Pipalkoti (THDC)	Central	Chamoli	4x111	444.00
23	Naitwar Mori (SJVN)	Central	Uttarkashi	2x30	60.00
24	Tapovan Vishnugad (NTPC)	Central	Chamoli	4x130	520.00
25	Vyasi (UJVNL)	State	Dehradun	2x60	120.00
26	Tehri PSS (THDC)	Central	Tehri Garhwal	4x250	1000.00
	Sub-total: Uttarakhand				2144.00
West Bengal					
27	Rammam-III (NTPC)	Central	Darjeeling	3x40	120.00
	Sub-total: West Bengal				120.00
	Total:				11427.50

APPENDIX-C

APPENDIX REFERRED TO IN REPLY TO ANNEXURE-II OF UNSTARRED QUESTION NO. 1393 ANSWERED IN THE LOK SABHA ON 10.02.2022

List of under construction Nuclear Power Project at various stages of construction in the country

Sl. No.	Generator	Installed Capacity (MW)	State
1	PFBR NEW Unit 1	500	Tamil Nadu
2	KAKRAPARA A.P.S. Unit 3-4	1400	Gujarat
3	RAJASTHAN A.P.S. Unit 7-8	1400	Rajasthan
4	KUDANKULAM Unit 3,4	2000	Tamil Nadu
5	GORAKHPUR Unit 1-2	1400	Haryana
6	KUDANKULAM Unit 5-6	2000	Tamil Nadu
	TOTAL	8700 MW	

APPENDIX-D**APPENDIX REFERRED TO IN REPLY TO ANNEXURE-II OF UNSTARRED QUESTION
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Sl. No.	Generator	Installed Capacity (MW)	State
1	Kaiga 5&6	1400	Karnataka
2	Gorakhpur GHAVP 3 & 4	1400	Haryana
3	Chutka 1 & 2	1400	Madhya Pradesh
4	Mahi Banswara 1 & 2	1400	Rajasthan
5	Mahi Banswara 3 & 4	1400	Rajasthan
	TOTAL	7000	
