

STATUS OF LARGE HYDRO ELECTRIC POTENTIAL DEVELOPMENT

(In terms of Installed capacity - Above 25 MW)

As on 31.12.2021

Region/ State	Identified Capacity as per Reassessment Study (1978-87)	Capacity In Operation		Capacity Under Active Construction		Capacity on which Construction is held up		Capacity yet to be taken up under construction	
	Above 25 MW (MW)	(MW)	%	(MW)	(%)	(MW)	(%)	(MW)	%
NORTHERN									
Jammu & Kashmir	11567	3360.0	29.05	2511.5	21.71	48	0.41	5647.5	48.82
Ladakh	2046	89.0	4.35	0.0	0.00	0	0.00	1957.0	95.65
Himachal Pradesh	18470	10065.0	54.49	2146.0	11.62	44	0.24	6215.0	33.65
Punjab	971	1096.3	100	206.0	21.22	0	0.00	0.0	0.00
Haryana#	64	0.0	0	0.0	0.00	0	0.00	0.0	0.00
Rajasthan##	483	411.0	85.09	0.0	0.00	0	0.00	0.0	0.00
Uttarakhand	17998	3855.4	21.42	1144.0	6.36	247	1.37	12751.7	70.85
Uttar Pradesh*	664	501.6	75.54	0.0	0.00	0	0.00	162.4	24.46
Sub Total (NR)	52263	19378.3	37.08	6007.5	11.49	339.0	0.65	26538.3	50.78
WESTERN									
Madhya Pradesh	1970	2235.0	100	0.0	0.00	400	20.30	0.0	0.00
Chhattisgarh	2202	120.0	5.45	0.0	0.00	0	0.00	2082.0	94.55
Gujarat###	590	550.0	100	0.0	0.00	0	0.00	0.0	0.00
Maharashtra	3314	2647.0	79.87	0.0	0.00	0	0.00	667.0	20.13
Goa	55	0.0	0.00	0.0	0.00	0	0.00	55.0	100.00
Sub total (WR)	8131	5552.0	68.28	0.0	0.00	400.0	4.92	2179.0	26.80
SOUTHERN									
Andhra Pradesh	3261	1610.0	49.37	960.0	29.44	0	0.00	691.0	21.19
Telangana	1099	800.0	72.79	0.0	0.00	0	0.00	299.0	27.21
Karnataka	6459	3689.2	57.12	0.0	0.00	0	0.00	2769.8	42.88
Kerala	3378	1856.5	54.96	100.0	2.96	0	0.00	1421.5	42.08
Tamil Nadu	1693	1778.2	100	0.0	0.00	0	0.00	0.0	0.00
Sub Total (SR)	15890	9733.9	61.26	1060.0	6.67	0.0	0.00	5096.1	32.07
EASTERN									
Jharkhand	582	210.0	36.08	0.0	0.00	0	0.00	372.0	63.92
Bihar####	40	0.0	0.00	0.0	0.00	0	0.00	0.0	0.00
Odisha	2981	2142.3	71.86	0.0	0.00	0	0.00	838.8	28.14
West Bengal	2829	441.2	15.60	120.0	4.24	0	0.00	2267.8	80.16
Sikkim	4248	2282.0	53.72	620.0	14.60	417	9.82	929.0	21.87
Sub Total (ER)	10680	5075.5	47.52	740.0	6.93	417.0	3.90	4447.6	41.64
NORTH EASTERN									
Meghalaya	2298	322.0	14.01	0.0	0.00	0	0.00	1976.0	85.99
Tripura	0	0.0	0.00	0.0	0.00	0	0.00	0.0	0.00
Manipur	1761	105.0	5.96	0.0	0.00	0	0.00	1656.0	94.04
Assam	650	350.0	53.85	120.0	18.46	0	0.00	180.0	27.69
Nagaland	1452	75.0	5.17	0.0	0.00	0	0.00	1377.0	94.83
Arunachal Pradesh	50064	1115.0	2.23	2000.0	3.99	0	0.00	46949.0	93.78
Mizoram	2131	60.0	2.82	0.0	0.00	0	0.00	2071.0	97.18
Sub Total (NER)	58356	2027.0	3.47	2120.0	3.63	0.0	0.00	54209.0	92.89
ALL INDIA	145320	41766.6	28.74	9927.5	6.83	1156.0	0.80	92469.9	63.63

Note:- 1. Does not include pumped storage Projects

2. In some states the total of the capacity developed and balance capacity is different from the potential assessed . This is due to change in capacity of the Projects, addition/ deletion of the Projects and merger of two Projects into one etc.

* Eastern Yamuna Canal project (35 MW) has been developed in 2 stages each having Installed Capacity below 25 MW

Western Yamuna Canal project (64 MW) has been developed in 4 stages each having Installed Capacity below 25 MW

Two Projects namely Mahi Bajaj Sagar I & II were identified for I.C. of 97 MW has been developed with I.C. of 140 MW. Gandhi Sagar (115 MW) Project was identified in Rajasthan but has been developed in Madhya Pradesh with same capacity.

Two Projects namely Ukai Dam and Sardar Sarovar were identified for an I.C. of 590 MW. However as per actual, the I.C. is 550 MW.

Identified project namely East Gandak Canal has been developed with installed capacity below 25 MW

3. In addition to above 8 PSS (4745.6 MW) are under operation, 2 PSS (1500 MW) are under active construction, 1 PSS (80 MW) on which construction is held up and 1 PSS (1000 MW) is Concurred by CEA , 1 PSS (1200 MW) is under examination in CEA, 17 PSS (16770 MW) are under S&I, 1 PSS of I.C. 660 MW is under Held up and 14 PSS (8855 MW) are under PFR/PIR/DPR list.

STATUS OF LARGE HYDRO ELECTRIC POTENTIAL UNDER DEVELOPMENT

(In terms of Installed capacity - Above 25 MW)

As on 31.12.2021

Region/ State	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		H.E. Projects stuck due to Inter-state issues/ Other Issues		H.E. Projects dropped due to Basin studies/ Other reasons		Capacity yet to be allotted by the State for development*	
	(MW)	%	(MW)	%	(MW)	%	(MW)	%	(MW)	%	(MW)	(%)	(MW)	(%)	(MW)	(%)
NORTHERN																
Jammu & Kashmir	3419	29.56	0	0.00	390	3.37	500	4.32	370	3.20	0	0.00	1030	8.90	1332	11.52
Ladakh	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	1866	91.20
Himachal Pradesh	819	4.43	500	2.71	400	2.17	2129	11.53	1690	9.15	0	0.00	889	4.81	1707	9.24
Punjab	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	50	5.15	0	0.00	0	0.00
Haryana	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00
Rajasthan	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00
Uttarakhand	815	4.53	0	0.00	789	4.38	514	2.86	2402	13.35	150	0.83	2012	11.18	3394	18.86
Uttar Pradesh	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	90	13.55	0	0.00	0	0.00
Sub Total (NR)	5053	9.67	500	0.96	1579	3.02	3143	6.01	4462	8.54	290	0.55	3931	7.52	8299	15.88
WESTERN																
Madhya Pradesh	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	140	7.11	100	5.08	191	9.70
Chhattisgarh	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	60	2.72	2109	95.78
Gujarat	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00
Maharashtra	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	1932	58.30
Goa	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	55	100.00
Sub total (WR)	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	140	1.72	160	1.97	4287	52.72
SOUTHERN																
Andhra Pradesh	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	975	29.90	0	0.00	192	5.89
Telangana	0	0.00	0	0.00	320	29.12	0	0.00	0	0.00	0	0.00	0	0.00	250	22.75
Karnataka	0	0.00	0	0.00	665	10.30	0	0.00	0	0.00	400	6.19	200	3.10	2848	44.09
Kerala	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	520	15.39	163	4.83	1004	29.72
Tamil Nadu	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	690	40.76	0	0.00	132	7.80
Sub Total (SR)	0	0.00	0	0.00	985	6.20	0	0.00	0	0.00	2585	16.27	363	2.28	4426	27.85
EASTERN																
Jharkhand	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	710	121.99	307	52.75
Bihar	0	0.00	130.1	325.25	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00
Odisha	0	0.00	0	0.00	0	0.00	0	0.00	128	4.29	320	10.73	0	0.00	1096	36.77
West Bengal	0	0.00	0	0.00	0	0.00	0	0.00	71	2.51	0	0.00	0	0.00	103	3.64
Sikkim	520	12.24	0	0.00	0	0.00	0	0.00	92	2.17	0	0.00	96	2.26	1914	45.06
Sub Total (ER)	520	4.87	130.1	1.22	0	0.00	0	0.00	291	2.72	320	3.00	806	7.55	3420	32.02
NORTH EASTERN																
Meghalaya	85	3.70	0	0.00	0	0.00	210	9.14	620	26.98	270	11.75	210	9.14	1312	57.09
Tripura	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00
Manipur	66	3.75	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	1500	85.18	936	53.15
Assam	0	0.00	0	0.00	60	9.23	0	0.00	0	0.00	0	0.00	0	0.00	185	28.46
Nagaland	186	12.81	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	1272	87.60
Arunachal Pradesh	15858	31.68	0	0.00	5323	10.63	1400	2.80	8696	17.37	1940	3.88	4778	9.54	16311.5	32.58
Mizoram	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	460	21.59	2076	97.42
Sub Total (NER)	16195	27.75	0	0.00	5383	9.22	1610	2.76	9316	15.96	2210	3.79	6948	11.91	22092.5	37.86
ALL INDIA	21768	14.98	630.1	0.43	7947	5.47	4753	3.27	14069	9.68	5545	3.82	12208	8.40	42524.5	29.26

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* The capacity yet to be taken up for development is different from arithmetic calculation from the potential accessed due to change in capacity of the Projects, addition/deletion of the Projects and merger of two Projects into one etc.