

STATUS OF HYDRO ELECTRIC POTENTIAL DEVELOPMENT

(In terms of Installed capacity - Above 25 MW)

As on 31.12.2020

Region/ State	Identified Capacity as per reassessment study		Capacity In Operation		Capacity Under Construction		Capacity In Operation + Under Construction		Capacity yet to be taken up under construction	
	Total (MW)	Above 25 MW (MW)	(MW)	%	(MW)	(%)	(MW)	(%)	(MW)	%
NORTHERN										
Jammu & Kashmir	11839	11567	3360.0	29.05	2559.5	22.13	5919.5	51.18	5647.5	48.82
Ladakh	2377	2046	89.0	4.35	0.0	0.00	89.0	4.35	1957.0	95.65
Himachal Pradesh	18750	18470	9809.0	53.11	2335.0	12.64	12144.0	65.75	6326.0	34.25
Punjab	971	971	1096.3	100	206.0	21.22	1302.3	100.00	0.0	0.00
Haryana#	64	64	0.0	0	0.0	0.00	0.0	0.00	0.0	0.00
Rajasthan##	496	483	411.0	85.09	0.0	0.00	411.0	100.00	0.0	0.00
Uttarakhand	18175	17998	3855.4	21.42	1391.0	7.73	5246.4	29.15	12751.7	70.85
Uttar Pradesh*	723	664	501.6	75.54	0.0	0.00	501.6	75.54	162.4	24.46
Sub Total (NR)	53395	52263	19122.3	36.59	6491.5	12.42	25613.8	49.01	26649.3	50.99
WESTERN										
Madhya Pradesh	2243	1970	2235.0	100	400.0	20.30	2635.0	100.00	0.0	0.00
Chhattisgarh	2242	2202	120.0	5.45	0.0	0.00	120.0	5.45	2082.0	94.55
Gujarat###	619	590	550.0	100	0.0	0.00	550.0	100.00	0.0	0.00
Maharashtra	3769	3314	2647.0	79.87	0.0	0.00	2647.0	79.87	667.0	20.13
Goa	55	55	0.0	0.00	0.0	0.00	0.0	0.00	55.0	100.00
Sub total (WR)	8928	8131	5552.0	68.28	400.0	4.92	5952.0	73.20	2179.0	26.80
SOUTHERN										
Andhra Pradesh	2366	2341	1610.0	68.77	960.0	41.01	2570.0	100.00	0.0	0.00
Telangana	2058	2019	800.0	39.62	0.0	0.00	800.0	39.62	1219.0	60.38
Karnataka	6602	6459	3644.2	56.42	0.0	0.00	3644.2	56.42	2814.8	43.58
Kerala	3514	3378	1856.5	54.96	100.0	2.96	1956.5	57.92	1421.5	42.08
Tamilnadu	1918	1693	1778.2	100	0.0	0.00	1778.2	100.00	0.0	0.00
Sub Total (SR)	16458	15890	9688.9	60.97	1060.0	6.67	10748.9	67.65	5141.1	32.35
EASTERN										
Jharkhand	753	582	170.0	29.21	0.0	0.00	170.0	29.21	412.0	70.79
Bihar####	70	40	0.0	0.00	0.0	0.00	0.0	0.00	0.0	0.00
Odisha	2999	2981	2142.3	71.86	0.0	0.00	2142.3	71.86	838.8	28.14
West Bengal	2841	2829	441.2	15.60	120.0	4.24	561.2	19.84	2267.8	80.16
Sikkim	4286	4248	2169.0	51.06	1133.0	26.67	3302.0	77.73	946.0	22.27
Sub Total (ER)	10949	10680	4922.5	46.09	1253.0	11.73	6175.5	57.82	4504.6	42.18
NORTH EASTERN										
Meghalaya	2394	2298	322.0	14.01	0.0	0.00	322.0	14.01	1976.0	85.99
Tripura	15	0	0.0	0.00	0.0	0.00	0.0	0.00	0.0	0.00
Manipur	1784	1761	105.0	5.96	0.0	0.00	105.0	5.96	1656.0	94.04
Assam	680	650	350.0	53.85	0.0	0.00	350.0	53.85	300.0	46.15
Nagaland	1574	1452	75.0	5.17	0.0	0.00	75.0	5.17	1377.0	94.83
Arunachal Pd	50328	50064	815.0	1.63	2300.0	4.59	3115.0	6.22	46949.0	93.78
Mizoram	2196	2131	60.0	2.82	0.0	0.00	60.0	2.82	2071.0	97.18
Sub Total (NER)	58971	58356	1727.0	2.96	2300.0	3.94	4027.0	6.90	54329.0	93.10
ALL INDIA	148701	145320	41012.6	28.22	11504.5	7.92	52517.1	36.14	92802.9	63.86

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 9 PSS (4785.6 MW) are under operation, 3 PSS (1580 MW) are under construction and 1 PSS (1000 MW) is Concurred by CEA , 1 PSS (1200 MW) is under examination in CEA, 8 PSS (7530 MW) are under S&I and 1 PSS of I.C. 660 MW is under Heldup list.

STATUS OF HYDRO ELECTRIC POTENTIAL UNDER DEVELOPMENT

(In terms of Installed capacity - Above 25 MW)

As on 31.12.2020

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	390	3.37	0	0.00	0	0.00	370	3.20	0	0.00	1030	8.90	1472	12.73
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	120	0.65	1073	5.81	867	4.69	1815	9.83	1690	9.15	126	0.68	689	3.73	1652	8.94
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	450	2.50	489	2.72	482	2.68	2402	13.35	0	0.00	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)	4354	8.33	1913	3.66	1356	2.59	2297	4.40	4462	8.54	266	0.51	3731	7.14	8384	16.04
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	41.65	0	0.00	192	8.20
Telangana	0	0.00	0	0.00	320	15.85	0	0.00	0	0.00	0	0.00	0	0.00	250	12.38
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
Tamilnadu	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	0	0.00	0	0.00	130	325.00	0	0.00	0	0.00	0	0.00	0	0.00
Odisha	0	0.00	0	0.00	0	0.00	128	4.29	0	0.00	320	10.73	0	0.00	1096	36.77
West Bengal	0	0.00	0	0.00	0	0.00	0	0.00	81	2.86	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	0	0.00	0	0.00	258	2.42	173	1.62	320	3.00	806	7.55	3420	32.02
NORTH EASTERN																
Meghalaya	270	11.75	85	3.70	0	0.00	210	9.14	620	26.98	0	0.00	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	120	18.46	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	15978	31.92	0	0.00	6403	12.79	2957	5.91	7611	15.20	2600	5.19	3998	7.99	14999	29.96
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)	16620	28.48	85	0.15	6463	11.08	3167	5.43	8231	14.10	2600	4.46	6168	10.57	20780	35.61
ALL INDIA	21494	14.79	1998	1.37	8804	6.06	5722	3.94	12866	8.85	5911	4.07	11228	7.73	41297	28.42

Note:- 1. Does not include pumped storage Projects

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3. In addition to above 9 PSS (4785.6 MW) are under operation, 3 PSS (1580 MW) are under construction and 1 PSS (1000 MW) is Concurred by CEA , 1 PSS (1200 MW) is under examination in CEA, 8 PSS (7530 MW) are under S&I and 1 PSS of I.C. 660 MW is under Heldup list.

* The numbers and 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.