

# STATUS OF LARGE HYDRO ELECTRIC POTENTIAL DEVELOPMENT

( In terms of Installed capacity - Above 25 MW)

As on 31.1.2023

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)	%
<b>NORTHERN</b>									
Jammu & Kashmir	11567	3360.0	29.05	3051.5	26.38	48	0.41	5107.5	44.16
Ladakh	2046	89.0	4.35	0.0	0.00	0	0.00	1957.0	95.65
Himachal Pradesh	18470	10263.0	55.57	2446.0	13.24	44	0.24	5717.0	30.95
Punjab	971	1096.30	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	3975.35	22.09	1024.0	5.69	247	1.37	12751.7	70.85
Uttar Pradesh*	664	501.60	75.54	0.0	0.00	0	0.00	162.4	24.46
<b>Sub Total (NR)</b>	<b>52263</b>	<b>19696.25</b>	<b>37.69</b>	<b>6728</b>	<b>13</b>	<b>339.0</b>	<b>0.65</b>	<b>25500.3</b>	<b>48.79</b>
<b>WESTERN</b>									
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
<b>Sub total (WR)</b>	<b>8131</b>	<b>5552.0</b>	<b>68.28</b>	<b>0.0</b>	<b>0.00</b>	<b>400.0</b>	<b>4.92</b>	<b>2179.0</b>	<b>26.80</b>
<b>SOUTHERN</b>									
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	3689.20	57.12	0.0	0.00	0	0.00	2769.8	42.88
Kerala	3378	1864.15	55.19	140.0	4.14	0	0.00	1373.9	40.67
Tamil Nadu	1693	1778.20	100	0.0	0.00	0	0.00	0.0	0.00
<b>Sub Total (SR)</b>	<b>15890</b>	<b>9741.55</b>	<b>61.31</b>	<b>1100.0</b>	<b>6.92</b>	<b>0.0</b>	<b>0.00</b>	<b>5048.5</b>	<b>31.77</b>
<b>EASTERN</b>									
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	2154.55	72.28	0.0	0.00	0	0.00	826.5	27.72
West Bengal	2829	441.20	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
<b>Sub Total (ER)</b>	<b>10680</b>	<b>5087.75</b>	<b>47.64</b>	<b>740.0</b>	<b>6.93</b>	<b>417.0</b>	<b>3.90</b>	<b>4435.3</b>	<b>41.53</b>
<b>NORTH EASTERN</b>									
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
<b>Sub Total (NER)</b>	<b>58356</b>	<b>2027.0</b>	<b>3.47</b>	<b>2120.0</b>	<b>3.63</b>	<b>0.0</b>	<b>0.00</b>	<b>54209.0</b>	<b>92.89</b>
<b>ALL INDIA</b>	<b>145320</b>	<b>42104.55</b>	<b>28.97</b>	<b>10687.5</b>	<b>7.35</b>	<b>1156.0</b>	<b>0.80</b>	<b>91372.0</b>	<b>62.88</b>

Note:- 1. Does not include pumped storage Projects

\* 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

2. In addition to above 8 PSS (4745.6 MW) are under operation, 3 PSS (2700 MW) are under active construction, 1 PSS (80 MW) on which construction is held up, 1 PSS (1000 MW) is Concurred by CEA, 17 PSS (19960 MW) are under S&I, 1 PSS (1350 MW) is Under Examination & 5 PSS (5320 MW) are under S&I Held Up

**STATUS OF LARGE HYDRO ELECTRIC POTENTIAL UNDER DEVELOPMENT**

( In terms of Installed capacity - Above 25 MW)

As on 31.1.2023

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)	(%)
<b>NORTHERN</b>																
Jammu & Kashmir	2879	24.89	240	2.07	390	3.37	696	6.02	370	3.20	0	0.00	1030	8.90	897	7.75
Ladakh	0	0.00	0	0.00	0	0.00	95	4.64	0	0.00	0	0.00	0	0.00	1866	91.20
Himachal Pradesh	937	5.07	0	0.00	400	2.17	1135	6.15	2950	15.97	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	434	2.41	2366	13.15	150	0.83	2307	12.82	2563	14.24
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
<b>Sub Total (NR)</b>	<b>4631</b>	<b>8.86</b>	<b>240</b>	<b>0.46</b>	<b>1579</b>	<b>3.02</b>	<b>2360</b>	<b>4.52</b>	<b>5686</b>	<b>10.88</b>	<b>290</b>	<b>0.55</b>	<b>4226</b>	<b>8.09</b>	<b>7033</b>	<b>13.46</b>
<b>WESTERN</b>																
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	627	28.47	1124	51.04
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	1865	56.28
Goa	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	55	100.00	0	0.00
<b>Sub total (WR)</b>	<b>0</b>	<b>0.00</b>	<b>0</b>	<b>0.00</b>	<b>0</b>	<b>0.00</b>	<b>0</b>	<b>0.00</b>	<b>0</b>	<b>0.00</b>	<b>140</b>	<b>1.72</b>	<b>782</b>	<b>9.62</b>	<b>3180</b>	<b>39.11</b>
<b>SOUTHERN</b>																
Andhra Pradesh	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	975	29.90	95	2.91	97	2.97
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	1870	28.95	1178	18.24
Kerala	0	0.00	0	0.00	0	0.00	800	23.68	0	0.00	520	15.39	644	19.06	338	10.01
Tamil Nadu	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	690	40.76	33	1.95	65	3.84
<b>Sub Total (SR)</b>	<b>0</b>	<b>0.00</b>	<b>0</b>	<b>0.00</b>	<b>985</b>	<b>6.20</b>	<b>800</b>	<b>5.03</b>	<b>0</b>	<b>0.00</b>	<b>2585</b>	<b>16.27</b>	<b>2642</b>	<b>16.63</b>	<b>1928</b>	<b>12.13</b>
<b>EASTERN</b>																
Jharkhand	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	710	121.99	147	25.26
Bihar	0	0.00	0	0.00	130.1	100.00	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	287	9.63	881	29.55
West Bengal	0	0.00	0	0.00	0	0.00	90	3.18	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
<b>Sub Total (ER)</b>	<b>520</b>	<b>4.87</b>	<b>0</b>	<b>0.00</b>	<b>130.1</b>	<b>1.22</b>	<b>90</b>	<b>0.84</b>	<b>291</b>	<b>2.72</b>	<b>320</b>	<b>3.00</b>	<b>1093</b>	<b>10.23</b>	<b>3045</b>	<b>28.51</b>
<b>NORTH EASTERN</b>																
Meghalaya	85	3.70	0	0.00	0	0.00	210	9.14	620	26.98	270	11.75	210	9.14	1247	54.26
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	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	1566	88.93	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	12600	25.17	8276	16.53	1940	3.88	4778	9.54	6411.5	12.81
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
<b>Sub Total (NER)</b>	<b>16129</b>	<b>27.64</b>	<b>0</b>	<b>0.00</b>	<b>5383</b>	<b>9.22</b>	<b>12810</b>	<b>21.95</b>	<b>8896</b>	<b>15.24</b>	<b>2210</b>	<b>3.79</b>	<b>7014</b>	<b>12.02</b>	<b>12127.5</b>	<b>20.78</b>
<b>ALL INDIA</b>	<b>21280</b>	<b>14.64</b>	<b>240</b>	<b>0.17</b>	<b>8077.1</b>	<b>5.56</b>	<b>16060</b>	<b>11.05</b>	<b>14873</b>	<b>10.23</b>	<b>5545</b>	<b>3.82</b>	<b>15757</b>	<b>10.84</b>	<b>27313.5</b>	<b>18.80</b>

Note:- 1. Does not include pumped storage Projects

2. In addition to above 8 PSS ( 4745.6 MW) are under operation, 3 PSS (2700 MW) are under active construction, 1 PSS (80 MW) on which construction is held up ,1 PSS (1000 MW) is Concurred by CEA, 17 PSS (19960 MW) are under S&I , 1PSS (1350 MW) is Under Examination & 5 PSS (5320MW) are under S&I Held Up

\* 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.