

List of Connectivity Margin in ISTS Substations available by Mar-27 (all fig. in MW, as on 31-07-2023)

Sr. No.	Pooling Station	RE Potential (MW)	Expected CoD of Pooling Station	Connectivity Granted/ Agreed			Connectivity Under Process			Margin for Connectivity			Effectiveness of GNA
				220kV	400kV	Total (MW)	220kV	400kV	Total (MW)	220kV	400kV	Total (MW)	
Northern Region													
A. Existing RE Pooling Stations													
1	Bhadla Complex	8430	Existing	6875	2050	8925	0	0	0	600	0	600	4755MW: Existing 1470MW: Mar'24 : (Ph-II Part-D) 1600MW: Sep'24 (Ph-II Part-E) 1700MW:Feb'25 onwards (Ph-III)
a	Bhadla	Earlier: 2330 New: 1050	Existing	3580	0	3580	0	0	0	0	0	0	Existing Tr. System
b	Bhadla-II	5050	Existing	3295	2050	5345	0	0	0	600	0	600	1175MW: Existing 1470MW: Mar'24 : (Ph-II Part-D) 1600MW: Sep'24 (Ph-II Part-E) 1700MW: Feb'25 onwards (Ph-III)
2	Fatehgarh Complex	7700	Existing	4460	2200	6660	0	0	0	500	500	1000	5140MW: Existing 720MW: Mar'24 (Ph-II Part-D) 1300MW: Sep'24 (Ph-II Part-E)
a	Fatehgarh	Earlier: 1000 New: 1200	Existing	0	2200	2200	0	0	0	0	0	0	Existing Tr. System
b	Fatehgarh-II	5500	Existing	4460	0	4460	0	0	0	500	500	1000	2940MW: Existing 720MW: Mar'24 (Ph-II-D) 1300MW: Sep'24 (Ph-II-E)
a	Bikaner	1850	Existing	1235	2640	3875	0	0	0	0	350	350	2865MW: Existing 110MW: Mar'24 (Ph-II-G) 1250MW: Aug'25 (Ph-IV Part-I)
	Sub-Total (Existing)	17980	Existing	12570	6890	19460	0	0	0	1100	850	1950	
B. Commissioning between Jul'23 - Dec'23													
a	Bikaner-II	2950	Commissioned	3785	1000	4785	217	0	217	458	0	458	300MW: May'24 (Bhinmal - Zerda) 5160MW: Sep'25 (Ph-IV Part-I)
b	Fatehgarh-III (Section-I)	1900	Sep'23	1980	0	1980	0	0	0	0	0	0	200MW: Sep'23 (Ph-II) 1780MW: Mar'24 (Ph-II)
	Sub-Total (June'23 to Dec'23)	4850		5765	1000	6765	217	0	217	458	0	458	
C. Commissioning between Jan'24 - Jun'24													
	NIL												
D. Commissioning between Jul'24 - Jun'25													
a	Bhadla-III	6500	Feb'25	1950	1000	2950	2140	0	2140	410	1000	1410	3000MW : Feb'25 onwards: cumulative at Ramgarh & Bhadla-III: Raj. (Ph-III) Beyond 3000MW : Jan'27 : Bhadla-III HVDC
	Fatehgarh Complex	8100	Fatehgarh-III (Section-II): Feb'25 Fatehgarh-IV (Section-I): Feb'25	3750	2467	6217	0	0	0	145	1100	1245	Feb'25 onwards (Ph-III)

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				220kV	400kV	Total (MW)	220kV	400kV	Total (MW)	220kV	400kV	Total (MW)	
a	Fatehgarh-III (Section-II)	6000	Feb'25	1975	2467	4442	0	0	0	145	1100	1245	Feb'25 onwards- (Ph-III)
b	Fatehgarh-IV (Section-I)	2100	Feb'25	1775	0	1775	0	0	0	0	0	0	Feb'25 onwards (Ph-III)
a	Ramgarh	2900	Feb'25	0	650	650	0	0	0	3100	250	3350	3000MW : Feb'25 onwards: cumulative at Ramgarh & Bhadla-III: Raj. (Ph-III) Beyond 3000MW : Jan'27 : Bhadla-III HVDC
Sub-Total (June'24 to Jun'25)		17500		5700	4117	9817	2140	0	2140	3655	2350	6005	
Sub-Total NR (By Jun'25)		40330		24035	12007	36042	2357	0	2357	5213	3200	8413	
E. Commissioning between Jul-25 to Mar-27													
1	Bikaner-III	4000	Sep'25	300	0	300	1400	2000	3400	300	0	300	Sep'25 (Ph-IV, Part-I)
2	Fatehgarh-IV (Section-II)	5000	Feb'26	630	0	630	2870	1525	4395	0	0	0	Feb'26 (Ph-IV, Part-II) For evacuation of 4400MW power at Fatehgarh-IV, additional Tr. System required.
3	Barmer	4000	Feb'26	0	0	0	700	0	700	1300	2000	3300	Feb'26 (Ph-IV, Part-II)
Sub-Total NR (Beyond Jun'25)		13000	0	930	0	930	4970	3525	8495	1600	2000	3600	
Total (NR)		53330	0	24965	12007	36972	7327	3525	10852	6813	5200	12013	
Southern Region													
A. Existing RE Pooling Stations													
1	NP Kunta	1500	Existing	1500	0	1500	0	0	0	300	0	300	Jul'24
2	Pavagada	3050	Existing	3050	0	3050	100	0	100	200	0	200	2050 MW : Existing Tr. System 1100 MW : Jul'24 : Narendra-Pune
3	Tuticorin-II GIS (erstwhile Tirunelveli (PG))	2500	Existing	2220	0	2220	0	0	0	155	0	155	1380 MW : Existing Tr. System 540 MW : Jun'23 : 4th ICT 300 MW : Jul'24 :5th ICT(Jun'23) & Narendra-Pune
Sub-Total (Existing)		7050		6770	0	6770	100	0	100	655	0	655	
B. Commissioning between Jul'23 - Dec'23													
4	Koppal/ Gadag Complex	5000	Jun'23 to Sep'23	5188	0	5188	0	0	0	0	0	0	1720 MW : Existing Tr. System 3468 MW : Jul'24 : Narendra-Pune
a	Koppal PS	2500	Jun'23	2753	0	2753	0	0	0	0	0	0	1260 MW : Existing Tr. System 1493 MW : Jul'24 : Narendra-Pune 300 MW opted for surrender under GNA.

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				220kV	400kV	Total (MW)	220kV	400kV	Total (MW)	220kV	400kV	Total (MW)	
b	Gadag PS	2500	Sep'23	2435	0	2435	0	0	0	0	0	0	460 MW : Existing Tr. System 1975 MW: Jul'24 : Narendra-Pune
5	Karur PS (Phase-1)	1000	Jul'23	420	0	420	0	0	0	580	0	580	100 MW : Existing Tr. System 320 MW: Jul'24 : Narendra-Pune 50 MW opted for surrender under GNA.
	Sub-Total (June'23 to Dec'23)	6000	-	5608	0	5608	0	0	0	580	0	580	
C. Commissioning between Jan'24 - Jun'24													
	NIL												
D. Commissioning between Jul'24 - Jun'25													
6	Ananthapuram/ Kurnool complex	14000	Nov'24 to Jun'25	0	0	0	445	600	1045	12055	900	12955	Nov'24 to Jun'25 No application
a	Kurnool-III PS	4500	Nov'24	0	0	0	150	0	150	4350	0	4350	Nov'24 No application
	Expansion with only ICTs	4500								4500		4500	• Can be taken up with 18 month schedule on receipt of application
b	Ananthapuram PS	3500	Jun'25 (exptd)	0	0	0	295	600	895	1705	900	2605	Jun'25 No application
	Expansion with only ICTs	1500								1500		1500	• Can be taken up with 18 month schedule on receipt of application
7	Bidar PS	2500	Jun'25 (exptd)	0	0	0	0	0	0	2500	0	2500	Jun'25 No application
a	Bidar Expansion with only ICTs	1000								1000		1000	• Can be taken up with 18 month schedule on receipt of application
8	Karur PS (with transformer augmentation under Phase-II)	1500		0	0	0	0	0	0	1500		1500	• Can be taken up with 18 month schedule on receipt of application
	Sub-Total (June'24 to June'25)	19000		0	0	0	445	600	1045	17055	900	17955	
	Sub-Total SR (by June'25)	32050		12378	0	12378	545	600	1145	18290	900	19190	
E. Commissioning between Jul-25 to Mar-27													
9	Koppal-II/ Gadag-II Complex	14000	2025-26	1315	0	1315	3396	900	4296	3789	2500	6289	2025-26
a	Koppal-II PS	4000	Sept'25 (exptd)	485	0	485	1876	0	1876	639	0	639	Sept'25 (exptd)
b	Gadag-II PS	4000	Sept'25 (exptd)	830	0	830	1520	900	2420	650	0	650	Sept'25 (exptd)

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				220kV	400kV	Total (MW)	220kV	400kV	Total (MW)	220kV	400kV	Total (MW)	
c	Davangere	4000	2025-26	0	0	0	0	0	0	1500	1500	3000	2025-26 No application
d	Bijapur	2000	2025-26	0	0	0	0	0	0	1000	1000	2000	2025-26 No application
10	Ananthapuram/Kurnool Complex	8500	Progressively from Jul'25 to 2026-27	0	0	0	0	0	0	4500	4000	8500	Progressively from Jul'25 to 2026-27 No application
a	Ananthapuram PS-II	4000	2026-27	0	0	0	0	0	0	2000	2000	4000	2026-27 No application
b	Kurnool-IV	4500	2026-27	0	0	0	0	0	0	2500	2000	4500	2026-27 No application
11	Tumkur-II	1500	2026-27	0	0	0	0	0	0	1500	0	1500	2026-27 No application
12	Nizamabad Complex	5000	2026-27	0	0	0	0	0	0	5000	0	5000	2026-27 No application
a	Nizamabad-II	2000	2026-27	0	0	0	0	0	0	2000	0	2000	2026-27 No application
b	Medak	1500	2026-27	0	0	0	0	0	0	1500	0	1500	2026-27 No application
c	Rangareddy	1500	2026-27	0	0	0	0	0	0	1500	0	1500	2026-27 No application
	Sub-Total SR (Beyond Jun'25)	29000		1315	0	1315	3396	900	4296	14789	6500	21289	
	Total (SR)	61050		13693	0	13693	3941	1500	5441	33079	7400	40479	

Western Region

A. Existing RE Pooling Stations

1	Bhuj complex	6000	Existing	4115	0	4115	650	0	650	1236	0	1236	Existing Tr. System
a	Bhuj PS	4000	Existing	3066		3066			0	934	0	934	Existing Tr. System
b	Bhuj-II PS	2000	Existing	1049		1049	650		650	302	0	302	Existing Tr. System
2	Radhanesda PS	950	Existing	700		700			0	250	0	250	Existing Tr. System
3	Jam Khambhaliya PS	1500	Existing	416		416	103		103	981	0	981	Existing Tr. System
	Subtotal (Existing)	8450		5231	0	5231	753	0	753	2466	0	2466	

B. Commissioning between Jul'23 - Dec'23

4	Kallam PS	1000	Oct-23 (1GW)	1000	0	1000	0	0	0	0	0	0	1GW: Oct-23
5	Pachora PS	1500	Nov23-1.5GW	1000		1000	398		398	0	0	0	1.5GW: Nov-23
	Subtotal (Jun-23 to Dec-23)	2500		2000	0	2000	398	0	398	0	0	0	

C. Commissioning between Jan'24 - Jun'24

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				220kV	400kV	Total (MW)	220kV	400kV	Total (MW)	220kV	400kV	Total (MW)		
6	Khavda I PS (Sec-I)	3000	Jan'24		3000	3000			0	0	0	0	Ph-1: 3GW - Jan'24 (KPS1) / Jan'25 (KPS2)	
7	Kallam PS	2250	May-24 (1GW)	922	66	988	30	142	172	0	1042	1042	2.25GW: Jun-25 (exptd)	
8	Neemuch PS	1000	Feb'24	500		500			0	500	0	500	Feb'24	
9	Solapur S/s	2000	Mar'24		258	258		415	415		1327	1327	Mar-24: Under Scope of applicant (ReNew)	
	Subtotal (Dec-23 to Jun-24)	8250		1422	3324	4746	30	557	587	500	2369	2869		
D. Commissioning between Jul'24 - Jun'25														
10	Khavda complex	10500	KPS1 (Sec-II): Jan-25 KPS2 (Sec-I & II): Jan-25 KPS3 (Sec-I): Jan-25	0	10500	10500	0	0	0	0	0	0	0	•Ph-2: 5GW- Mar'25 •Ph-3: 7GW- Sep'25 (Under bidding - 24 months from SPV transfer)
a	Khavda I PS (Sec II)	4500	Sec-I: Jan'24 Sec-II: Jan'25		4500	4500			0	0	0	0		
b	Khavda II PS (Sec-I & II)	3000	Sec-I & II: Jan'25		3000	3000			0	0	0	0	•Ph-2: 5GW- Mar'25 •Ph-3: 7GW- Sep'25 (Under bidding - 24 months from SPV transfer)	
c	Khavda III PS (Sec-I)	3000	Jan'25		3000	3000			0	0	0	0		
11	Chhatarpur PS	1500	Dec-24 (exptd)	0		0			0	1500	0	1500	Jun-25: Under Advance stage of Bidding No application	
12	Parli (New) S/s	700	Jun'25 (exptd)		277	277		73	73		350	350	Jun'25	
	Subtotal (Jun-24 to Jun-25)	12700		0	10777	10777	0	73	73	1500	350	1850		
	Sub-Total (WR) by Jun'25	31900		8653	14101	22754	1181	630	1811	4466	2719	7185		
E. Commissioning between Jul-25 to Mar-27														
13	Khavda complex	16500	KPS1 (Sec-I): Dec-25 KPS2 (Sec-I & II): Dec-25 KPS2 (Sec-I): Mar'27 KPS3 (Sec-I & II): Dec-25 KPS3 (Sec-II): Mar'27	0	5705	5705	0	5495	5495	0	5300	5300	•Ph-1: 3GW - Jan'24. However, 2GW at KPS2 using Ph-I system would also require KPS2 S/s (Jan'25) •Ph-2: 5GW- Mar'25 •Ph-3: 7GW- Sep'25 (Under bidding - 24 months from SPV transfer) •Ph-4: 7GW & Ph-V: 8GW approved in 14th NCT meeting with implementation time-lines of 24 & 48(Bipole-I) / 54(Biple-II) months respectively.	
a	Khavda I PS (Sec-I)	1500	Sec-I ICT: Dec'25		1500	1500			0	0	0	0	Total transformation capacity at Khavda complex (considering N-1 on each section):	

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				220kV	400kV	Total (MW)	220kV	400kV	Total (MW)	220kV	400kV	Total (MW)	
b	Khavda II PS (Sec-I & II)	7500	Sec-I & II ICTs : Dec'25 Sec-I ICT: Mar'27		755	755		5495	5495	0	1250	1250	KPS1 - Sec-I: 4.5GW ; Sec-2: 4.5GW Total KPS1: 9GW KPS2 - Sec-I: 6GW ; Sec-2: 4.5GW Total KPS2: 10.5GW KPS3 - Sec-I: 4.5GW ; Sec-2: 4.5GW Total KPS3: 9GW Total (KPS1, KPS2 & KPS3): 28.5GW Balance 1.5GW transformation capacity at KPS3 would be taken up matching with progress of RE generation.
c	Khavda III PS (Sec-I & II)	7500	Sec-I & II ICTs : Dec'25 Sec-II ICT: Mar'27		3450	3450			0	0	4050	4050	
14	Solapur PS (1.5GW)	1500	Sep-25 (exptd)	260		260	600		600	640	0	640	Sep-25 (exptd) : Under Bidding
15	Pachora PS	1000	Sep-25 (exptd)			0	150		150	850	0	850	1GW: Sep-25 (exptd) : Under Bidding
16	Mandsaur PS	2000	Dec-25 (exptd)	0		0			0	2000	0	2000	Dec-25 : Under approval
17	Dhule PS	2000	Aug-25 (exptd)	0		0	50		50	1950	0	1950	Sep-25 : Under Bidding
	Subtotal WR (Beyond Jun'25)	23000		260	5705	5965	800	5495	6295	5440	5300	10740	
	Total (WR)	54900		8913	19806	28719	1981	6125	8106	9906	8019	17925	
North Eastern Region													
A. Commissioning between Jul-25 to Mar-27													
18	Bokajan	1000	Dec-25 (exptd)	0	1000	1000	0	0	0	0	0	0	Dec-25 : Under approval
	Subtotal NER (Beyond Jun'25)	1000		0	1000	1000	0	0	0	0	0	0	
Total (All India)		169280		47571	32813	80384	13249	11150	24399	49798	20619	70417	
By Jun'25		104280		45066	26108	71174	4083	1230	5313	27969	6819	34788	
Commissioning between Jul-25 to Mar-27		66000		2505	6705	9210	9166	9920	19086	21829	13800	35629	