

List of Connectivity Margin in ISTS Substations available by Mar-27 (all fig. in MW, as on 30-06-2023)

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	400	0	0	600	0	600	4755MW: Existing 1470MW: Mar'24 : (Ph-II Part-D) 1600MW: Sep'24 (Ph-II Part-E) 1700MW: Jan'25 (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	400	0	0	600	0	600	1175MW: Existing 1470MW: Mar'24 : (Ph-II Part-D) 1600MW: Sep'24 (Ph-II Part-E) 1700MW: Jan'25 (Ph-III)
	Fatehgarh Complex	7700	Existing	4460	2700	7160	0	0	0	0	0	0	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	500	4960	0	0	0	0	0	0	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	950	950	2100MW: Existing 765MW: Jul'23 (Ph-II -F) 110MW: Mar'24 (Ph-II-G) 1850MW: Aug'25 (Ph-IV Part-I)
	Sub-Total (Existing)	17980	Existing	12570	7390	19960	400	0	0	600	950	1550	
B. Commissioning between Jul'23 - Dec'23													
a	Bikaner-II	2950	Jun'23	3785	1000	4785	217	0	217	458	0	458	300MW: Jul'23 (Ph-II -F) 5160MW: Aug'25 (Ph-IV Part-I)
b	Fatehgarh-III (Section-I)	1900	Sep'23	1980	0	1980	10	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	227	0	217	458	0	458	
C. Commissioning between Jan'24 - Jun'24													
	NIL												
D. Commissioning between Jul'24 - Jun'25													
a	Bhadla-III	6500	Jan'25	1950	1000	2950	1840	0	1840	710	1000	1710	3000MW : Jan'25: cumulative at Ramgarh & Bhadla-III: Raj, (Ph-III) Beyond 3000MW : Jan'27 : Bhadla-III HVDC
	Fatehgarh Complex	8100	Fatehgarh-III (Section-II): Jan'25 Fatehgarh-IV (Section-I): Jan'25	3750	2600	6350	0	800	800	335	100	435	7585MW: Jan'25 (Ph-III)
a	Fatehgarh-III (Section-II)	6000	Jan'25	1725	2600	4325	0	800	800	300	100	400	Jan'25 - (Ph-III)
b	Fatehgarh-IV (Section-I)	2100	Jan'25	2025	0	2025	0	0	0	35	0	35	Jan'25 (Ph-III)
a	Ramgarh	2900	Jan'25	0	650	650	0	0	0	3100	250	3350	3000MW : Jan'25: cumulative at Ramgarh & Bhadla-III: Raj, (Ph-III) Beyond 3000MW : Jan'27 : Bhadla-III HVDC

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)	
	Sub-Total (June'24 to Jun'25)	17500		5700	4250	9950	1840	800	2640	4145	1350	5495	
	Sub-Total NR (By Jun'25)	40330		24035	12640	36675	2467	800	2857	5203	2300	7503	
E. Commissioning between Jul-25 to Mar-27													
1	Bikaner-III	4000	Aug'25	300	0	300	900	1000	1900	1800	0	1800	Aug'25 (Ph-IV, Part-I)
2	Fatehgarh-IV (Section-II)	5000	Dec'25	1530	0	1530	1970	1500	3470	0	0	0	Dec'25 (Ph-IV, Part-II)
3	Barmer	4000	Dec'25	0	0	0	145	0	425	3575	0	3575	Dec'25 (Ph-IV, Part-II)
	Sub-Total NR (Beyond Jun'25)	13000	0	1830	0	1830	3015	2500	5795	5375	0	5375	
	Total (NR)	53330	0	25865	12640	38505	5482	3300	8652	10578	2300	12878	
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	0	0	0	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	455	0	455	
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.
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
	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	0	0	0	12500	1500	14000	Nov'24 to Jun'25 No application
a	Kurnool-III PS	4500	Nov'24	0	0	0	0	0	0	4500	0	4500	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	0	0	0	2000	1500	3500	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	0	0	0	17500	1500	19000	
	Sub-Total SR (by June'25)	32050		12378	0	12378	100	0	100	18535	1500	20035	

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)	
E. Commissioning between Jul-25 to Mar-27													
9	Koppal-II/ Gadag-II Complex	14000	2025-26	1315	0	1315	3089	900	3989	4096	2500	6596	2025-26
a	Koppal-II PS	4000	Sept'25 (exptd)	485	0	485	1619	0	1619	896	0	896	Sept'25 (exptd)
b	Gadag-II PS	4000	Sept'25 (exptd)	830	0	830	1470	900	2370	700	0	700	Sept'25 (exptd)
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	3089	900	3989	15096	6500	21596	
	Total (SR)	61050		13693	0	13693	3189	900	4089	33631	8000	41631	
Western Region													
A. Existing RE Pooling Stations													
1	Bhuj complex	6000	Existing	4115	0	4115	450	0	450	1436	0	1436	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	450		450	502	0	502	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	553	0	553	2666	0	2666	
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													
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

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)		
9	Solapur S/s	2000	Mar'24		258	258		342	342		1400	1400	Mar-24: Under Scope of applicant (ReNew)	
	Subtotal (Dec-23 to Jun-24)	8250		1422	3324	4746	30	484	514	500	2442	2942		
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		•Ph-2: 5GW- Mar'25 •Ph-3: 7GW- Sep'25 (Under bidding - 24 months from SPV transfer)
b	Khavda II PS (Sec-I & II)	3000	Sec-I & II: Jan'25		3000	3000			0	0	0	0		
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	981	557	1538	4666	2792	7458		
E. Commissioning between Jul-25 to Mar-27														
13	Khavda complex	16500	KPS1 (Sec-I): Dec-25 KPS2 (Sec-I & II): Dec-25 KPS3 (Sec-I & II): Mar'27 KPS3 (Sec-I): Dec-25 KPS3 (Sec-II): Mar'27	0	5705	5705	0	3720	3720	0	7075	7075	0	•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(Bipole-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): 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.	
b	Khavda II PS (Sec-I & II)	7500	Sec-I & II ICTs : Dec'25 Sec-I ICT: Mar'27		755	755		3720	3720	0	3025	3025		
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	3720	4520	5440	7075	12515		
	Total (WR)	54900		8913	19806	28719	1781	4277	6058	10106	9867	19973		
North Eastern Region														
A. Commissioning between Jul-25 to Mar-27														

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)	
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		48471	33446	81917	10452	8477	18799	54315	20167	74482	
	By Jun'25	104280		45066	26741	71807	3548	1357	4495	28404	6592	34996	
	Commissioning between Jul-25 to Mar-27	66000		3405	6705	10110	6904	7120	14304	25911	13575	39486	