

List of Connectivity Margin in ISTS Substations available

(all fig. in MW, as on 30-06-2024)

Sr. No.	Pooling Station	State	RE Potential (MW)			Expected CoD of Pooling Station	Connectivity Granted/ Agreed			Connectivity Under Process			Margin for Connectivity			Additional Margin for Connectivity requiring ICT Augmentation / additional Tr. System			Effectiveness of GNA for Capacity mentioned under "Margin for Connectivity"
			RE Potential (MW) [A]	BESS (MW) [B]	S/s Evacuation Capacity (RE Potential - BESS [A-B])		220kV	400kV	Total (MW)	220kV	400kV	Total (MW)	220kV	400kV	Total (MW)	220kV	400kV	Total (MW)	
Northern Region																			
A. Existing RE Pooling Stations																			
1	Bhadla Complex	Rajasthan	8430	0	8430	Existing	7475	2000	9475	0	0	0	0	50	50	0	0	0	4705MW: Existing 50MW: Jul'24 (Bhinmal Bypass) 3070MW: Dec'24 : (Ph-II Part-D/E) 1700MW:Mar'25 onwards (Ph-III) (upto Jul'26)
a	Bhadla	Rajasthan	3380	0	3380	Existing	3580	0	3580	0	0	0	0	0	0	0	0	0	3530MW: Existing 50MW: Bhinmal Bypass (Jul'24)
b	Bhadla-II	Rajasthan	5050	0	5050	Existing	3895	2000	5895	0	0	0	0	50	50	0	0	0	1175MW: Existing 3070MW: Dec'24 : (Ph-II Part-D/E) 1700MW: Mar'25 onwards (Ph-III) (upto Jul'26)
2	Fatehgarh-Barmer Complex	Rajasthan	9600	0	9600	Existing	6940	3050	9990	0	0	0	0	0	0	150	0	150	5340MW: Existing 4300MW: Dec'24 (Ph-II Part-D/E) (upto Jul'26)
a	Fatehgarh	Rajasthan	2200	0	2200	Existing	0	2200	2200	0	0	0	0	0	0	0	0	0	Existing Tr. System
b	Fatehgarh-II	Rajasthan	5500	0	5500	Existing	4460	850	5310	0	0	0	0	0	0	150	0	150	2940MW: Existing 2520MW: Sep'24 (Ph-II-D/E) (upto Jul'26) Connectivity can only be accommodated upto 5460MW @ Fatehgarh-II PS. 150MW margin [at 220kV or 400kV] (out of 5460MW) can only be available with augmentation of 765/400kV, 1500MVA ICT (7th) at Fatehgarh-II PS (under NCT approval)
c	Fatehgarh-III (Section-I)	Rajasthan	1900	0	1900	Existing	2480	0	2480	0	0	0	0	0	0	0	0	0	200MW: Existing 1780MW: Dec'24(Ph-II) Including 2x250MW BESS granted at Fatehgarh-III (Section-I)
3	Bikaner Complex	Rajasthan	3850	0	3850	Existing	2235	3940	6175	0	50	50	0	0	0	0	0	0	2865MW: Existing 780MW: Sep'24 (Ph-II-G) 580MW: Dec'25 (upto Jun'26) (Ph-IV Part-I & II)
a	Bikaner	Rajasthan	1850	0	1850	Existing	1235	2940	4175	0	50	50	0	0	0	0	0	0	2865MW: Existing 780MW: Sep'24 (Ph-II-G) 580MW: Dec'25 (upto Jun'26) (Ph-IV Part-I & II)
b	Bikaner-II	Rajasthan	2000	0	2000	2x500MVA, 400/220kV ICT at Bikaner-II PS: Existing	1000	1000	2000	0	0	0	0	0	0	0	0	0	2000MW: Sep'24 (Ph-II Part-G)
	Sub-Total (Existing)		21880	0	21880		16650	8990	25640	0	50	50	0	50	50	150	0	150	
B. Commissioning between Jul'24 - Jun'25																			
1	(Bhadla Complex) Bhadla-III*	Rajasthan	2500	0	2500	Mar'25 (3x500MVA, 400/220kV ICT & 2x1500MVA, 765/400kV ICT)	1500	1000	2500	0	0	0	0	0	0	0	0	0	3700MW : Mar'25 onwards (Upto Jul'26): cumulative at Ramgarh & Bhadla-III: Raj. (Ph-III) Beyond 3700MW : Bhadla HVDC (Jul'28 Pole-1 & Jan'29 Pole-2)
2	Fatehgarh-Barmer Complex	Rajasthan	7333	0	7333		4095	3550	7645	0	0	0	50	0	50	0	0	0	Feb'25 onwards (Ph-III) (Upto Jul'26)
a	Fatehgarh-III (Section-II)	Rajasthan	5233	0	5233	Feb'25	2070	3550	5620	0	0	0	50	0	50	0	0	0	Feb'25 onwards- (Ph-III) (Upto Jun'26)
b	Fatehgarh-IV (Section-I)	Rajasthan	2100	0	2100	Feb'25	2025	0	2025	0	0	0	0	0	0	0	0	0	Feb'25 onwards (Ph-III) (Upto Jul'26)
3	(Bikaner Complex) Bikaner-II**	Rajasthan	5000	3000	2000	2x500MVA, 400/220kV ICTs: Existing 5x500MVA, 400/220kV ICT: Dec'24 1x500MVA, 400/220kV ICT: Jan'25	2785	0	2785	0	0	0	675	0	675	0	0	0	827MW: Dec'24 (Bikaner-II Additional 400/220kV ICTs) 2633MW: Dec'25 (Upto Jun'26) (Ph-IV Part-I) **Regarding 675MW, CTU has filed review petition before Hon'ble Commission to review the order in Petition No. 114/MP/2023. This capacity is reserved till outcome of the same.
4	(Ramgarh Complex) Ramgarh	Rajasthan	4000	0	4000	Mar'25	600	650	1250	600	2250	2850	0	0	0	0	0	0	650MW-2900MW : Bhadla HVDC (Jul'28 Pole-1 & Jan'29 Pole-2) Transmission system for evacuation of power (beyond 2.9GW and upto 4 GW) HVDC sys. is under planning (Exp Comm. up to Mar'30).
	Sub-Total (Jul'24 to Jun'25)		18833	3000	15833		8980	5200	14180	600	2250	2850	725	0	725	0	0	0	
	Sub-Total NR (By Jun'25)		40713	3000	37713		25630	14190	39820	600	2300	2900	725	50	775	150	0	150	

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(all fig. in MW, as on 30-06-2024)

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			RE Potential (MW) [A]	BESS (MW) [B]	S/s Evacuation Capacity (RE Potential - BESS [A-B])		220kV	400kV	Total (MW)	220kV	400kV	Total (MW)	220kV	400kV	Total (MW)	220kV	400kV	Total (MW)	
C. Commissioning between Jul-25 to Dec-25																			
1	(Bhadla Complex) Bhadla-III	Rajasthan	1000	0	1000	Dec'25 (2x500MVA, 400/220kV ICT & 2x1500MVA, 765/400kV ICT)	1000	0	1000	0	0	0	0	0	0	0	0	0	3700MW : Mar'25 onwards (Upto Jun'26): cumulative at Ramgarh & Bhadla-III: Raj. (PH-III) Beyond 3700MW : Bhadla HVDC (Jul'28 Pole-1 & Jan'29 Pole-2)
2	(Bikaner Complex) Bikaner-III	Rajasthan	7000	3000	4000	Dec'25	2267	2400	4667	0	0	0	0	0	0	0	0	0	4000MW: Dec'25 (Ph-IV, Part-I) (Upto Jun'26) 667MW: with Bikaner-IV tr. System having tentative schedule Oct'26
	Sub-Total (Jul'25 to Dec'25)		8000	3000	5000		3267	2400	5667	0	0	0	0	0	0	0	0	0	
D. Commissioning between Jan-26 to Mar-30																			
1	(Fatehgarh-Barmer Complex) Fatehgarh-IV (Section-II)	Rajasthan	9000	4000	5000	Jul'26	3430	1550	4980	0	0	0	0	0	0	0	0	0	Hybrid RE Potential : 9GW (Wind+Solar) along with BESS (4 GW), S/s Evacuation Capacity: 5GW For 4000MW (out of 5000MW): Jun'26 (Ph-IV, Part-II). For evacuation of balance 980MW, additional Tr. System approved recently (sch.Dec'26 onwards).
2	(Fatehgarh-Barmer Complex) Barmer-I**	Rajasthan	5500	1500	4000	Jul'26	3950	0	3950	0	0	0	50	0	50	0	0	0	Hybrid RE Potential: 5.5GW (Wind+Solar) along with BESS (1.5 GW), S/s Evacuation Capacity: 4GW. About 1.5GW: Jul'26 (Ph-IV, Part-II) For evacuation of >1.5GW (upto 4GW) power at Barmer-I, additional Tr. System recently approved (sch.Dec'26 onwards). For application of >4GW, connectivity will be provided at Barmer-II PS for which system is under planning (sch.upto Dec'29).
3	(Fatehgarh-Barmer Complex) Barmer-II	Rajasthan	6000	0	6000	Jun'29 to Dec'29 (HVDC)	1210	0	1210	2030	2317	4347	0	0	0	390	0	390	HVDC Corridor is under planning for total 6 GW capacity (Expected Sch.Pole-1:Jun'29, Pole-2: Dec'29). Barmer-II S/s capacity (5 GW or 6 GW) shall depend on HVDC technology (LCC:6 GW; VSC:5/6 GW)
4	(Fatehgarh-Barmer Complex) Barmer-III	Rajasthan	6000	0	6000	Sep'29 to Mar'30 (HVDC)	0	0	0	1695	0	1695	0	0	0	2305	2000	4305	HVDC Corridor is being planned for total 6 GW capacity (Expected Sch. Up to Mar'30). Barmer-III S/s capacity (5 GW or 6 GW) shall depend on HVDC technology (LCC:6 GW; VSC:5/6 GW)
5	(Bikaner Complex) Bikaner-IV	Rajasthan	6000	0	6000	Sep'26	3150	2850	6000	0	0	0	0	0	0	0	0	0	Comprehensive Transmission scheme for Bikaner-IV PS (6GW) is under bidding (exp. Sch. -Oct'26). For application of >6GW, connectivity will be provided at Bikaner-V PS for which system is under planning (sch.upto Dec'29).
6	(Bikaner Complex) Bikaner-V	Rajasthan	4000	0	4000	Jun'29 to Dec'29 (HVDC)	786	0	786	1000	1000	2000	0	0	0	1214	0	1214	HVDC Corridor is being planned for total 6 GW capacity (combinedly for Bhadla-IV & Bikaner-V, margins to be allocated based on application priority for both complexes together). **Transmission system is under planning (6GW HVDC) (Expected Sch.Pole-1:Jun'29, Pole-2: Dec'29)]. Beyond 6GW (combinedly for Bhadla-IV & Bikaner-V), transmission system is under planning (Schedule up to Mar'30)
7	Sirohi	Rajasthan	3000	1000	2000	Jun'26	700	0	700	2650	0	2650	0	0	0	0	0	0	Connectivity at Sirohi PS will be granted upto 2 GW only. Tr. System for evacuation of power from Sirohi PS including immediate evacuation (400/220kV ICT & 220kV bays) is under finalization (Exp. sch. Feb'27). Beyond 2 GW in Sirohi complex, Tr. system (HVDC) to be identified (Sch.- up to Mar'30).
8	Bhadla Complex (Bhadla-III Section linked to Bhadla HVDC station & system)	Rajasthan	3000	0	3000	Jul'28 to Jan'29 (5x500MVA, 400/220kV ICT)	1500	1450	2950	0	0	0	50	0	50	0	0	0	3700MW : Mar'25 onwards (Upto Jun'26): cumulative at Ramgarh & Bhadla-III: Raj. (PH-III) Beyond 3700MW : Bhadla HVDC (Jul'28 Pole-1 & Jan'29 Pole-2). For application of >6.5GW@Bhadla-III, connectivity will be provided at Bhadla-IV PS for which system is under planning (sch.upto Dec'29).

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			RE Potential (MW) [A]	BESS (MW) [B]	S/s Evacuation Capacity (RE Potential - BESS [A-B])		220kV	400kV	Total (MW)	220kV	400kV	Total (MW)	220kV	400kV	Total (MW)	220kV	400kV	Total (MW)	
9	Bhadla Complex (Bhadla-IV*)	Rajasthan	4000	2000	2000	Jun'29 to Dec'29 (HVDC)	0	800	800	1285	765	2050	0	0	0	0	0	0	HVDC Corridor is being planned for total 6 GW capacity (combinedly for Bhadla-IV & Bikaner-V, margins to be allocated based on application priority for both complexes together). Transmission system is under planning (6GW HVDC) (Expected Sch.Pole-1:Jun'29, Pole-2: Dec'29)]. Beyond 6GW (combinedly for Bhadla-IV & Bikaner-V), transmission system is under planning (Schedule up to Mar'30)
10	Nagaur Complex (Merta-II)	Rajasthan	2000	0	2000	Dec'26	0	0	0	3050	0	3050	0	0	0	0	0	0	Connectivity at Merta-II in Nagaur Complex will be granted upto 2 GW only. Immediate evacuation requirement (2x500 MVA 400/220kV ICTs and 220kV bays) from Merta-II PS is approved recently as part of Raj. SEZ Ph-IV (Part-IV) scheme in NCT meeting held on 29/04/24. However Inter regional Tr. requirement for 2GW power evacuation for connectivity under GNA is planned (Sch. Feb'27).Beyond 2 GW in Merta/Nagaur complex, Tr. system to be identified (Sch.- up to Mar'30).
11	Jalore Complex (Jalore)	Rajasthan	3000	1000	2000	Sep'29 to Mar'30 (HVDC)	0	0	0	1700	1000	2700	0	0	0	0	0	0	HVDC Transmission system (5GW or 6GW) for evacuation of power from Jalore complex (Jalore/Pali/Sanchore) is under planning (Exp. Comm. Schedule up to Mar'30). HvdC CAPACITY shall depend on HVDC technology (LCC:6 GW; VSC:5/6 GW)
11	Sanchore Complex (Sanchore)	Rajasthan	3000	1000	2000	Sep'29 to Mar'30 (HVDC)	0	0	0	300	0	300	0	0	0	700	1000	1700	HVDC Transmission system (5GW or 6GW) for evacuation of power from Jalore complex (Jalore/Pali/Sanchore) is under planning (Exp. Comm. Schedule up to Mar'30). HVDC capacity shall depend on HVDC technology (LCC:6 GW; VSC:5/6 GW)
12	Rishabhdeo	Rajasthan	0	0	0	Jul'26	0	0	0	400	0	400	0	0	0	0	0	0	No RE potential is declared in Rishabhdeo complex in Rajasthan. At present, 765kV Rishabhdeo S/s is under advance stage of bidding as part of Raj. REZ Ph-IV Part-2. However the scope doesnot include 400kV or 220kV level development in the bidding. Further, for immediate connectivity & onward evacuation of power, additional tr. system (ATS) may be required, which shall be planned (sch- upto Mar'30).
13	Ramgarh Complex Ramgarh-II	Rajasthan	8000	3000	5000	Sep'29 to Mar'30 (HVDC)	0	0	0	1510	3384	4894	0	0	0	990	116	1106	Hybrid RE Potential: 8GW (Wind+Solar) along with BESS (3 GW), S/s Evacuation Capacity: 5GW. HVDC Transmission system for evacuation of power is under planning (Exp Comm. Schedule up to Mar'30).
15	Pang (Leh)	Ladakh	13000	0	13000	2029-30 (VSC HVDC)	0	0	0	0	0	0	0	13000	13000	0	0	0	Leh - Ensviaged RE Capacity (13 GW) for connectivity in Ladakh including Solar, Wind & BESS. However, net evacuation capacity of HVDC tr. system is 5000MW. Connectivity applications in Ladakh are awaited.
Sub-Total NR (Beyond Dec'25)			75500	13500	62000		14726	6650	21376	15620	8466	24086	100	13000	13100	5599	3116	8715	
Total (NR)			124213	19500	104713		43623	23240	66863	16220	10766	26986	825	13050	13875	5749	3116	8865	

Southern Region

A. Existing RE Pooling Stations

1	NP Kunta	Andhra Pradesh	1500	0	1500	Existing	1700	0	1700	0	0	0	0	0	0	100	0	100	1500 MW : Existing Tr. System 300 MW: 5th ICT (UC)
2	Pavagada	Karnataka	2050	0	2050	Existing	2550	0	2550	0	0	0	0	0	0	0	0	0	2050 MW : Existing Tr. System 500 MW : Jul'24 : Narendra-Pune
3	Tuticorin-II GIS (erstwhile Tirunelveli (PG))	Tamil Nadu	2500	0	2500	Existing	2320		2320	0	0	0	180	0	180				1870 MW : Existing Tr. System 300 MW: Jul'24 : Narendra-Pune 330 MW: Dec'25 : 6th ICT for N-1 Margins are on existing already allocated bays through sharing
4	Koppal PS	Karnataka	2500	0	2500	Existing	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.
5	Karur PS (Phase-1)	Tamil Nadu	1000	0	1000	Existing	918	0	918	0	0	0	0	0	0				100 MW : Existing Tr. System 818 MW: Jul'24 : Narendra-Pune
Sub-Total (Existing)			9550	0	9550		10241	0	10241	0	0	0	180	0	180	100	0	100	

B. Commissioning between Jan'24 - Jun'24

6	Gadag PS	Karnataka	2500	0	2500	Mar'24	2383	0	2383	0	0	0	0	0	0				460 MW : Existing Tr. System 1925 MW: Jul'24 : Narendra-Pune
Sub-Total (Jan'24-Jun'24)			2500	0	2500		2383	0	2383	0	0	0	0	0	0	0	0	0	

C. Commissioning between Jul'24 - Jun'25

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			RE Potential (MW) [A]	BESS (MW) [B]	S/s Evacuation Capacity (RE Potential - BESS [A-B])		220kV	400kV	Total (MW)	220kV	400kV	Total (MW)	220kV	400kV	Total (MW)	220kV	400kV	Total (MW)	
7	Ananthapuram/ Kurnool complex	Andhra Pradesh	4500	0	4500	Nov'24	2390	2650	5040	0	0	0	0	0	0	0	0	0	Nov'24
a	Kurnool-III PS	Andhra Pradesh	4500	0	4500	Nov'24	2390	2650	5040	0	0	0	0	0	0	0	0	0	Nov'24 Kurnool-III PS has been closed for all purposes.
	Sub-Total (June'24 to June'25)		4500	0	4500		2390	2650	5040	0	0	0	0	0	0	0	0	0	
	Sub-Total SR (by June'25)		16550	0	16550	0	15014	2650	17664	0	0	0	180	0	180	100	0	100	
D. Commissioning between Jul-25 to Dec-25																			
8	Karur PS (with transformer augmentation under Phase-II)	Tamil Nadu	1500	0	1500	2025-26	582	0	582	83	0	83	418		418	500	0	500	500 MVA ICT (5th) is required to accommodate under process applications.
9	Koppal-II/ Gadag-II Complex	Karnataka	8000	2000	6000	2025-26	7650	1800	9450	176.0	0	176.0	0	0	0	0	0	0	2025-26 Koppal-II PS and Gadag-II PS has been closed for all purposes. The under process applications cannot be accommodated.
a	Koppal-II PS	Karnataka	4000	1000	3000	Dec'25	4175	0	4175	100.0	0	100.0	0	0	0	0	0	0	Dec'25 The under process applications cannot be accommodated.
b	Gadag-II PS	Karnataka	4000	1000	3000	Dec'25	3476	1800	5276	76	0	76	0	0	0	0	0	0	Dec'25 PSP of 900 MW not considered for determination of margins. The under process applications cannot be accommodated.
10	Ananthapuram/ Kurnool complex	Andhra Pradesh	5000	0	5000	Sep'25	1545	2710	4255	0	0	0	0	0	0	0	0	0	Progressively from Sept'25 to 2026-27
a	Ananthapuram PS	Andhra Pradesh	3500	0	3500	Sept'25	1545	2710	4255	0	0	0	0	0	0	0	0	0	Sept'25 Ananthapuram PS has been closed for all purposes.
b	Expansion with only ICTs	Andhra Pradesh	1500	0	1500														
11	Pavagada (expansion with ICTs)	Karnataka	1000	0	1000	Sept'25	800	0	800	0	0	0	0	0	0	0	0	0	800 MW : Sep'25 : 7th & 8th ICT
	Sub-Total SR (Jul'25-Dec'25)		15500	2000	13500		10577	4510	15087	259	0	259	418	0	418	500	0	500	
E. Commissioning beyond Dec'25																			
11	Davangere Complex	Karnataka	5500	1000	4500	2026-27	2340	0	2340	1275	0	1275	885	500	1385	2500	0	2500	2026-27
a	Davangere	Karnataka	4000	1000	3000	2026-27	2340	0	2340	775	0	775	385	0	385	1000	0	1000	2026-27 Augmentation of 4x500 MVA ICTs is required to accommodate under process applications.
b	Bellary	Karnataka	1500	0	1500	2026-27	0	0	0	500	0	500	500	500	1000	1500	0	1500	2026-27
12	Bijapur	Karnataka	2000	0	2000	2026-27	1914	0	1914	2414	0	2414	172	0	172	0	0	0	2026-27 Augmentation of ICTs and transmission line is required to accommodate under process applications. Further, margin of only 172 MW is left after which station shall be closed
13	Bidar PS	Karnataka	2500	0	2500	Feb'26	2500	0	2500	600	0	600	400	0	400	0	0	0	Feb'26 Augmentation of 3x500 MVA ICTs (6th, 7th & 8th) is required to accommodate under process applications.
14	Ananthapuram/ Kurnool complex	Andhra Pradesh	13000	0	13000	2026-27	2949	7170	10119	1430	990	2420	3070	4000	7070	3000	4300	7300	Progressively from Dec'25 to 2026-27
a	Kurnool-III (Expansion with ICTs)	Andhra Pradesh	4500	0	4500	2026-27	660	3950	4610	0	0	0	0	0	0	0	0	0	• PSP of 1850 MW not considered for determination of margins • Augmentation of ICTs and transmission line under approval • Kurnool-III PS has been closed for all purposes.
b	Ananthapuram PS-II	Andhra Pradesh	4000	0	4000	2026-27	1689	0	1689	800	990	1790	1200	2000	3200	1500	2800	4300	2026-27 • New Pooling Station under approval in Ananthapuram area of AP. • Application for 990 MW sought at Kadapa-II
c	Kurnool-IV	Andhra Pradesh	4500	0	4500	2026-27	600	3220	3820	630	0	630	1870	2000	3870	1500	1500	3000	2026-27 • PSP of 3220 MW not considered for determination of margins • New Pooling Station under approval in Kurnool area of AP.

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			RE Potential (MW) [A]	BESS (MW) [B]	S/s Evacuation Capacity (RE Potential - BESS [A-B])		220kV	400kV	Total (MW)	220kV	400kV	Total (MW)	220kV	400kV	Total (MW)	220kV	400kV	Total (MW)	
15	Tumkur-II	Karnataka	1500	0	1500	2026-27	500	0	500	950	0	950	50	0	50	3000	0	3000	2026-27
16	Nizamabad Complex	Telangana	5000	0	5000	2026-27	0	0	0	0	0	0	5000	0	5000	8500	0	8500	2026-27 No application
a	Nizamabad-II	Telangana	2000	0	2000	2026-27	0	0	0	0	0	0	2000	0	2000	2500		2500	2026-27 No application Augmentation of ICTs and transmission line, if any, can be taken up on receipt of application
b	Medak	Telangana	1500	0	1500	2026-27	0	0	0	0	0	0	1500	0	1500	3000		3000	2026-27 No application Augmentation of ICTs and transmission line, if any, can be taken up on receipt of application
c	Rangareddy	Telangana	1500	0	1500	2026-27	0	0	0	0	0	0	1500	0	1500	3000		3000	2026-27 No application Augmentation of ICTs and transmission line, if any, can be taken up on receipt of application
Sub-Total SR (Beyond Dec'25)			29500	1000	28500		10203	7170	17373	6669	990	7659	9577	4500	14077	17000	4300	21300	
Total (SR)			61550	3000	58550		35794	14330	50124	6927	990	7917	10175	4500	14675	17600	4300	21900	

Western Region

A. Existing RE Pooling Stations

1	Bhuj complex		5500		5500	Existing	5559	0	5559	0	0	0	0	0	0	0	0	0	Existing Tr. System
a	Bhuj PS	Gujarat	3500		3500	Existing	3500		3500	0		0	0	0					Existing Tr. System.
b	Bhuj-II PS	Gujarat	2000		2000	Existing	2059		2059		0	0	0	0	0	0	0	0	Existing Tr. System.
2	Radhanesda PS	Gujarat	950		950	Existing	1250		1250	0		0	0	0					Existing Tr. System.
3	Jam Khambhaliya PS	Gujarat	2000		2000	Existing	1969	0	1969	0	53	53	0	0	0	0	0	0	Existing Tr. System.
Subtotal (Existing)			8450		8450		8778	0	8778	0	53	53	0	0	0	0	0	0	

B. Commissioning between Jan'24 - Jun'24

4	Kallam PS (Ph-I)	Maharashtra	1000		1000	Jun'24	916	0	916	0	0	0	0	0	0				1GW: Under Construction-Jun-24
5	Pachora PS	Madhya Pradesh	1500		1500	Apr'24	1398		1398	0		0	0	0					1.5GW: Commissioned
7	Neemuch PS	Madhya Pradesh	1000		1000	Apr'24	500		500	450		450	0	0	0	0	0	0	1GW: Commissioned
8	Solapur S/s	Maharashtra	2000		2000	Existing		1000	1000		0	0	1000	1000					Jun-24: Under Scope of applicant (ReNew)
Subtotal (Jan-24 to Jun-24)			5500	0	5500	0	2814	1000	3814	450	0	450	0	1000	1000	0	0	0	

C. Commissioning between Jul'24 - Jun'25

10	Khavda complex		13500		13500		0	13500	13500	0	0	0	0	0	0				
a	Khavda I PS (Sec II)	Gujarat	7500		7500	Sec-I: Feb'24 Sec-II: Jan'25		7500	7500		0	0	0	0					•Ph-1: 3GW - Feb'24 (KPS1) / Jan'25 (KPS2) •Ph-2: 5GW- Mar'25 •Ph-3: 7GW- Dec'25
b	Khavda II PS (Sec-I & II)	Gujarat	3000		3000	Sec-I & II: Jan'25		3000	3000		0	0	0	0					
c	Khavda III PS (Sec-I)	Gujarat	3000		3000	Jan'25		3000	3000		0	0	0	0					
11	Chhatarpur PS	Madhya Pradesh	1500		1500	Bidding in abeyance (18 months from award)	0		0		0	1500	0	1500					Bidding in abeyance (18 months from award) No application
12	Kallam PS (Ph-II)	Maharashtra	2250		2250	Dec-24 (1GW)	833	1011	1844	0	0	0	202	289	0				1GW ICTs: Dec-24 & System for 2.25GW: Under Implementation-Oct-25 (exptd) Revocation of Veh Aarush (201MW) & Anupavan (1.25MW) at 220kV level is under process.
13	Parli (New) S/s	Maharashtra	700		700	Existing		300	300		180	180		520	520				400kV bay under construction (suitable for 1000MW evacuation): Dec'25

List of Connectivity Margin in ISTS Substations available

(all fig. in MW, as on 30-06-2024)

Sr. No.	Pooling Station	State	RE Potential (MW)			Expected CoD of Pooling Station	Connectivity Granted/ Agreed			Connectivity Under Process			Margin for Connectivity			Additional Margin for Connectivity requiring ICT Augmentation / additional Tr. System			Effectiveness of GNA for Capacity mentioned under "Margin for Connectivity"
			RE Potential (MW) [A]	BESS (MW) [B]	S/s Evacuation Capacity (RE Potential - BESS [A-B])		220kV	400kV	Total (MW)	220kV	400kV	Total (MW)	220kV	400kV	Total (MW)	220kV	400kV	Total (MW)	
	Subtotal (Jun-24 to Jun-25)		17950		17950		833	14811	15644	0	180	180	1702	809	2020				
	Sub-Total (WR) by Jun'25		31900		31900		12425	15811	28236	450	233	683	1702	1809	3020	0	0	0	
D. Commissioning between Jul-25 to Dec-25																			
14	Khavda complex		9000		9000		0	9000	9000	0	0	0	0	0	0				<ul style="list-style-type: none"> •Ph-1: 3GW - Completed in Feb-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- Dec'25 •Ph-4: 7GW-Jun-26 (Under bidding - 24 months from SPV transfer) •Ph-V: 48(Bipole-I) / 54(Bipole-II) monthsfrom SPV transfer
a	Khavda I PS (Sec-I)	Gujarat	1500		1500	Sec-I ICT: Jul'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)	Gujarat	6000		6000	Sec-I & II ICTs : Feb'26		6000	6000			0	0	0	0				
c	Khavda III PS (Sec-I)	Gujarat	1500		1500	Sec-I ICT : Jul'25		1500	1500			0	0	0	0				
15	Bhuj PS	Gujarat	464		464	Jul'25	464		464	0	0	0	0	0	0				9th ICT at Bhuj PS shall be required for applications beyond 3500MW NO FURTHER MARGINS ARE NOW AVAILABLE. Applications received beyond margins.
16	Lakadia PS	Gujarat	1000		1000	Aug'25	950	0	950	0	0	0	0	0	0	0	0	0	Aug-25: Under Implementation
	Sub-Total (WR) (Jul'25 to Dec'25)		10464	0	10464		1414	9000	10414	0	0	0	0	0	0	0	0	0	
E. Commissioning beyond Dec-25																			
17	Khavda complex		6000		6000		0	2200	2200	0	0	0	0	0	0	0	3800	3800	<ul style="list-style-type: none"> •Ph-1: 3GW - Part System charged in Dec-23 & balance by Mar-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- Dec'25 •Ph-4: 7GW-Jun-26 (Under bidding - 24 months from SPV transfer) •Ph-V: 48(Bipole-I) / 54(Bipole-II) month sfrom SPV transfer
a	Khavda II PS (Sec-I & II)	Gujarat	1500		1500	Sec-I ICT: 2026-27		250	250			0	0	0	0		1250	1250	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 III PS (Sec-I & II)	Gujarat	4500		4500	Sec-II ICTs: Jun-26 (3x1500) & 2026-27 (1x1500)		1950	1950			0	0	0	0		2550	2550	
18	Solapur PS (1.5GW)	Maharashtra	1500		1500	Mar-26 (exptd)	1150.0		1150.0			0	350.0	0	350.0	1500	0	1500	Mar-26: Under Implementation
19	Pachora PS	Madhya Pradesh	1000		1000	Feb-26 (exptd)	1144		1144	971		971	0	0	0	487	0	487	1GW: Feb-26 (exptd) :Under Implementation Beyond capacity of 1000MW, Rajgarh Ph-III (1.5GW) is under planning stage.

List of Connectivity Margin in ISTS Substations available

(all fig. in MW, as on 30-06-2024)

Sr. No.	Pooling Station	State	RE Potential (MW)			Expected CoD of Pooling Station	Connectivity Granted/Agreed			Connectivity Under Process			Margin for Connectivity			Additional Margin for Connectivity requiring ICT Augmentation / additional Tr. System			Effectiveness of GNA for Capacity mentioned under "Margin for Connectivity"
			RE Potential (MW) [A]	BESS (MW) [B]	S/s Evacuation Capacity (RE Potential - BESS [A-B])		220kV	400kV	Total (MW)	220kV	400kV	Total (MW)	220kV	400kV	Total (MW)	220kV	400kV	Total (MW)	
20	Mandsaur PS	Madhya Pradesh	2000		2000	Apr-26 (exptd)	1000	2112	3112	450	0	450	550	0	550	2000	0	2000	Apr-26 : Under Implementation Considering grant of connectivity under GNA to PSP at 400kV level (1512MW), additional transmission system may be required for margins shown here.
21	Dhule PS	Maharashtra	2000		2000	Feb-26 (exptd)	50		50	0		0	1950	0	1950	2000	0	2000	Feb-26 (SCOD): Under Implementation
22	Jamnagar	Gujarat	0		0	Jun-26 (extd).	297	0	297	0	0	0	703	1000	1703	0	0	0	765/400kV Jamnagar S/s is presently under tendering with time-line of 24 months from SPV transfer. ICT Augmentation shall be required for injection at 220kV level. 600MW (550MW+50MW) Connectivity of Acme is revoked on request of applicant.
23	Lakadia PS	Gujarat	2500		2500	Apr-26 (exptd)	2550	0	2550	0		0			0			0	Apr-26 : Under Approval NO FURTHER MARGINS EXIST AT 220kV LEVEL OF LAKADIA S/s
24	Jam Khambhaliya-II / West of Bhanvad (Proposed)	Gujarat	2000		2000	2026-27	0	0	0	600		600			1400			0	Substation is under planning. Shall be finalised based on potential to be declared by MNRE.
25	Raghnesda (GIS)	Gujarat	3000		3000	2026-27	0	600	600		0	0		2400	2400			0	Substation is under Approval (NCT)
26	Bhuj-II PS	Gujarat	2000		2000	0.5GW: May'26 & 1.5GW: Aug'26	1942		1942	0		0	0	0	0	0	0	0	Augmentation of 765/400kV & 400/220kV ICTs are required. NO FURTHER MARGINS ARE NOW AVAILABLE.
27	Jam Khambhaliya PS	Gujarat	1000		1000	May'26	1031	0	1031	0		0	0	0	0	0	0	0	Augmentation of 400/220kV ICTs is required. Margins are shown considering 9th ICT at JK PS as confirmed by JKTL. NO FURTHER MARGINS ARE NOW AVAILABLE.
29	Ishanagar	MP	630		630	Feb'26	0		0			0	630	630				0	Under Implementation
30	Karera	MP	0		0	Feb'26	0		0			0		0	500			500	Under Implementation
31	Kurawar	MP	0		0	Jun'26	0		0			0		0	1000			1000	Under Bidding
32	Neemuch PS	MP	1000		1000	2026-27	0		0	850	0	850	200	0	200	0	0	0	ICT Augmentation and Additional Tr. System for RE evacuation beyond 1GW at Neemuch PS (If any) needs to be planned. Space confirmation from TSP is awaited.
33	Lakadia PS-II / Rapar (Under Planning)	Gujarat	0		0	2026-27	0		0	2543	700	3243	0	0	0	0	0	0	Substation is under planning. Shall be finalised based on potential to be declared by MNRE.
34	Bhuj PS	Gujarat	536		536	2026-27	348		348	76		76	112	0	112				10th ICT at Bhuj PS shall be required for applications beyond 4000MW
Subtotal WR (Beyond Dec'25)			25166	0	25166		9511	4912	14423	5490	700	6190	3865	4030	9295	7487	3800	11287	
Total (WR)			67530	0	67530		23350	29723	53073	5940	933	6872	5568	5839	12315	7487	3800	11287	

In WR, Tr. System has been planned w/o considering BESS capacity of 1.1GW in Maharashtra

North Eastern Region

A. Commissioning between Jul-25 to Dec-25

23	Bokajan		1000	0	1000	Dec-26 (exptd)	0	750	750	0	0	0	0	250	250	1500	0	1500	Under bidding
Subtotal NER (Beyond Dec'25)			1000	0	1000		0	750	750	0	0	0	0	250	250	1500	0	1500	
Total (All India)			254293	22500	231793		102767	68043	170810	29087	12689	41776	16567	23639	41115	32336	11216	43552	
By Jun'25			89163	3000	86163		53069	32651	85719	1050	2533	3583	2607	1859	3975	250	0	250	
By Dec'25			34964	5000	29964		15258	15910	31168	259	0	259	418	0	418	500	0	500	
Beyond Dec'25			130166	14500	115666		34441	19482	53923	27778	10156	37934	13542	21780	36722	31586	11216	42802	

The margins indicated may vary depending on network topology, Load-Generation balance, etc. For any clarification/information, CTU may be contacted.