

Connectivity Margin available at ISTS substations

(all fig. in MW, as on 31-07-2024)

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	4755MW: Existing 3070MW: Dec'24 : (Ph-II Part-D/E) 1700MW: Mar'25 onwards (Ph-III) (upto Aug'26)
a	Bhadla	Rajasthan	3380	0	3380	Existing	3580	0	3580	0	0	0	0	0	0	0	0	0	3580MW: Existing
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 Aug'26)
2	Fatehgarh-Barmer Complex	Rajasthan	9600	0	9600	Existing	6940	3050	9990	0	150	150	0	0	0	0	0	0	5340MW: Existing 4300MW: Dec'24 (Ph-II Part-D/E) (upto Aug'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	150	150	0	0	0	0	0	0	2940MW: Existing 2520MW: Dec'24 (Ph-II-D/E) (upto Aug'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 (Recently approved in NCT- Sch. Aug'26)
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: Dec'24 (Ph-II-G) 580MW: Dec'25 (upto Aug'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: Dec'24 (Ph-II-G) 580MW: Dec'25 (upto Aug'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: Dec'24 (Ph-II Part-G)
Sub-Total (Existing)			21880	0	21880		16650	8990	25640	0	200	200	0	50	50	0	0	0	
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 Aug'26): cumulative at Ramgarh & Bhadla-III: Raj. (Ph-III) Beyond 3700MW : Bhadla HVDC (Sep'28 Pole-1 & Mar'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 Aug'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 Aug'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 Aug'26)

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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)	
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 Aug'26) (Ph-IV Part-I&II) ** Soltown Infra has been offered transtion for 675MW as per Hon'ble Commission order on petition no. 114/MP/2023. However, treatment of transition of connectivity & capacity allocation shall be subject to review petition filed by CTUIL before Hon'ble Commission to reweiv its order in Petition No. 114/MP/2023.
4	(Ramgarh Complex) Ramgarh	Rajasthan	4000	0	4000	Mar'25	600	650	1250	600	2134	2734	0	0	0	0	0	0	650MW-2900MW : Bhadla HVDC (Sep'28 Pole-1 & Mar'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	2134	2734	725	0	725	0	0	0	
Sub-Total NR (By Jun'25)			40713	3000	37713		25630	14190	39820	600	2334	2934	725	50	775	0	0	0	
C. Commissioning between Jul-25 to Dec-25																			
1	(Bhadla Complex) Bhadla-III	Rajasthan	1000	0	1000	1x1500-Dec'25 + Feb'26 (2x500MVA, 400/220kV ICT & 1x1500MVA, 765/400kV ICT)	1000	0	1000	0	0	0	0	0	0	0	0	0	3700MW : Mar'25 onwards (Upto Aug'26): cumulative at Ramgarh & Bhadla-III: Raj. (Ph-III) Beyond 3700MW : Bhadla HVDC (Sep'28 Pole-1 & Mar'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&II) (Upto Aug'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	Aug'26	3480	1500	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): Aug'26 (Ph-IV, Part-II). For evacuation of balance 980MW : Dec'26 (Ph-IV, Part-IV).
2	(Fatehgarh-Barmer Complex) Barmer-I**	Rajasthan	5500	1500	4000	Sep'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: Sep'26 (Ph-IV, Part-II) For evacuation of >1.5GW (upto 4GW) : Dec'26 (Ph-IV, Part-IV) 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	1000	3712	4712	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).

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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)	
4	(Fatehgarh-Barmer Complex) Barmer-III	Rajasthan	6000	0	6000	Dec'29 to Jun'30 (HVDC)	0	0	0	730	0	730	0	0	0	3270	2000	5270	HVDC Corridor is being planned for total 6 GW capacity (Expected Sch. Up to Jun'30).
5	(Bikaner Complex) Bikaner-IV	Rajasthan	6000	0	6000	Oct'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 Mar'30).
6	(Bikaner Complex) Bikaner-V	Rajasthan	4000	0	4000	Sep'29 to Mar'30 (HVDC)	786	0	786	1450	1000	2450	0	0	0	764	0	764	HVDC Corridor is being planned for total 6 GW capacity (Expected Sch.Pole-1:Sep'29, Pole-2: Mar'30)
7	Sirohi	Rajasthan	3000	1000	2000	Aug'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 recently approved in NCTs part of Raj. REZ Ph-V (Part-1) (Exp. sch. Mar'27). Beyond 2 GW in Sirohi complex, additional transmission system from Sirohi complex is to be identified (Sch.- up to Jun'30).
8	Bhadla Complex (Bhadla-III Section linked to Bhadla HVDC station & system)	Rajasthan	3000	0	3000	Sep'28 to Mar'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 (Sep'28 Pole-1 & Mar'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 Mar'30).
9	Bhadla Complex (Bhadla-IV*)	Rajasthan	4000	2000	2000	Sep'29 to Mar'30 (HVDC)	0	0	0	635	2965	3600	0	0	0	2365	35	2400	Transmission system for evacuation of power from Bhadla-IV PS is under planning (6GW HVDC) (Expected Sch.Pole-1:Sep'29, Pole-2: Mar'30)
10	Nagaour 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 Nagaour Complex will be granted upto 2 GW. Immediate evacuation requirement (5x500 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. However Inter regional Tr. requirement for 2GW power evacuation for connectivity under GNA is recently approved in NCT as part of Raj. REZ Ph-V (Part-1) (Sch. Mar'27).Beyond 2 GW in Merta/Nagaour complex, Tr. system to be identified (Sch.- up to Jun'30).

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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)	
11	Jalore Complex (Jalore)	Rajasthan	3000	1000	2000	Dec'29 to Jun'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 Jun'30).
11	Sanchore Complex (Sanchore)	Rajasthan	3000	1000	2000	Dec'29 to Jun'30 (HVDC)	0	0	0	300	0	300	0	0	0	700	1000	1700	HVDC Transmission system (6GW) for evacuation of power from Jalore complex (Jalore/Pali/Sanchore) is under planning (Exp. Comm. Schedule up to Jun'30).
12	Rishabhdeo	Rajasthan	0	0	0	Aug'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 Jun'30).
13	Ramgarh Complex Ramgarh-II	Rajasthan	8000	3000	5000	Sep'29 to Mar'30 (HVDC)	0	0	0	1310	4100	5410	0	0	0	0	0	0	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 - Enviaged 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 yet to be received.
Sub-Total NR (Beyond Dec'25)			75500	13500	62000		14776	5800	20576	13225	12777	26002	100	13000	13100	7489	3035	10524	
Total (NR)			124213	19500	104713		43673	22390	66063	13825	15111	28936	825	13050	13875	7489	3035	10524	

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

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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)	
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																			
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	664	0	664	157	0	157	179	0	179	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	0.0	0	0.0	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	0.0	0	0.0	0	0	0	0	0	0	Dec'25
b	Gadag-II PS	Karnataka	4000	1000	3000	Dec'25	3476	1800	5276	0	0	0	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		10659	4510	15169	157	0	157	179	0	179	500	0	500	
E. Commissioning beyond Dec'25																			
11	Davangere Complex	Karnataka	5500	1000	4500	2026-27	3291	0	3291	600	0	600	1109	0	1109	2900	0	2900	2026-27
a	Davangere	Karnataka	4000	1000	3000	2026-27	3115	0	3115	200	0	200	185	0	185	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	176	0	176	400	0	400	924	0	924	1900	0	1900	2026-27

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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)	
12	Bijapur	Karnataka	2000	0	2000	2026-27	1914	0	1914	2654	0	2654	0	0	0	0	0	0	2026-27 Augmentation of ICTs and transmission line is required to accommodate under process applications. Further Margins are not available after accomodating under process applicatyions and Bijapur PS shall be closed for all purposes thereafter.
13	Bidar PS	Karnataka	2500	0	2500	Feb'26	2800	0	2800	550	0	550	150	0	150	1000		1000	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	3879	7170	11049	800	1990	2790	11	4000	4011	2970	3000	5970	Progressivly 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	<ul style="list-style-type: none"> 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	1989	0	1989	500	1990	2490	11	1000	1011	1500	1500	3000	2026-27 <ul style="list-style-type: none"> New Pooling Station under approval in Ananthapuram area of AP. Application for 990 MW of PSP sought at Kadapa-II
c	Kurnool-IV	Andhra Pradesh	4500	0	4500	2026-27	1230	3220	4450	300	0	300	0	3000	3000	1470	1500	2970	2026-27 <ul style="list-style-type: none"> PSP of 3220 MW not considered for determination of margins New Pooling Station under approval in Kurnool area of AP.
15	Tumkur-II	Karnataka	1500	0	1500	2026-27	1400	0	1400	1350	0	1350	0	0	0	1750	0	1750	2026-27 Augmentation of ICTs and transmission line is required to accommodate under process applications.
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		13284	7170	20454	5954	1990	7944	6270	4000	10270	17120	3000	20120	
	Total (SR)		61550	3000	58550		38957	14330	53287	6111	1990	8101	6629	4000	10629	17720	3000	20720	
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	0				Existing Tr. System.
b	Bhuj-II PS	Gujarat	2000		2000	Existing	2059		2059			0	0	0	0	0	0	0	Existing Tr. System.

Connectivity Margin available at ISTS substations

(all fig. in MW, as on 31-07-2024)

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)	
2	Radhanesda PS	Gujarat	950		950	Existing	1250		1250	0		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: Commissioned
5	Pachora PS	Madhya Pradesh	1500		1500	Apr'24	1398		1398	0		0	0	0	0				1.5GW: Commissioned
6	Neemuch PS	Madhya Pradesh	1000		1000	Apr'24	950		950	0		0	0	0	0	0	0	0	1GW: Commissioned
7	Solapur S/s	Maharashtra	2000		2000	Existing		1000	1000		0	0		1000	1000				Sep-24: Under Scope of applicant (ReNew)
	Subtotal (Jan-24 to Jun-24)		5500	0	5500	0	3264	1000	4264	0	0	0	0	1000	1000	0	0	0	
C. Commissioning between Jul'24 - Jun'25																			
8	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	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	0				
c	Khavda III PS (Sec-I)	Gujarat	3000		3000	Jan'25		3000	3000		0	0	0	0	0				
9	Chhatarpur PS	Madhya Pradesh	1500		1500	Scheme dropped.	0		0		0	0	0	0	0				Scheme has been dropped as decided in NCT meeting & to be denotified by MoP.
10	Kallam PS (Ph-II)	Maharashtra	2250		2250	Dec-24 (1GW)	833	1011	1844	150	0	150	51	289	340				1GW ICTs: Dec-24 & System for 2.25GW: Under Implementation-Oct-25 (exptd)
11	Parli (New) S/s	Maharashtra	700		700	Existing		480	480		220	220		300	300				400kV bay under construction (suitable for 1000MW evacuation): Dec'25
	Subtotal (Jun-24 to Jun-25)		17950		17950		833	14991	15824	150	220	370	51	589	640				
	Sub-Total (WR) by Jun'25		31900		31900		12875	15991	28866	150	273	423	51	1589	1640	0	0	0	
D. Commissioning between Jul-25 to Dec-25																			
12	Khavda complex		9000		9000		0	9000	9000	0	0	0	0	0	0				•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(Biple-II) months from SPV transfer

Connectivity Margin available at ISTS substations

(all fig. in MW, as on 31-07-2024)

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)	
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	0				
c	Khavda III PS (Sec-I)	Gujarat	1500		1500	Sec-I ICT : Jul'25		1500	1500		0	0	0	0	0				
13	Bhuj PS	Gujarat	464		464	Jul'25	464		464	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.
14	Lakadia PS	Gujarat	1000		1000	Aug'25	950	0	950	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																			
15	Khavda complex		7500		7500		0	5390	5390	0	0	0	0	0	0	0	1250	1250	<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(Biple-II) months from SPV transfer
a	Khavda I PS (Sec-I)	Gujarat	1500		1500	Sec-I ICT: 2026-27		810	810	0	0	0	0	690	690	0	0	0	Total transformation capacity at Khavda complex (considering N-1 on each section): KPS1 - Sec-I: 6GW ; Sec-2: 4.5GW Total KPS1: 10.5GW KPS2 - Sec-I: 6GW ; Sec-2: 4.5GW Total KPS2: 10.5GW
b	Khavda II PS (Sec-I & II)	Gujarat	1500		1500	Sec-I ICT: 2026-27		250	250	0	0	0	0	0	0	0	1250	1250	

Connectivity Margin available at ISTS substations

(all fig. in MW, as on 31-07-2024)

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)	
c	Khvada III PS (Sec-I & II)	Gujarat	6000		4500	Sec-II ICTs: Jun-26 (3x1500) & 2026-27 (1x1500)		5140	5140		0	0	0	0	0	0	0	0	KPS3 - Sec-1: 4.5GW ; Sec-2: 4.5GW Total KPS3: 9GW Total (KPS1, KPS2 & KPS3): 30GW
16	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	
17	Pachora PS	Madhya Pradesh	1000		1000	Feb-26 (exptd)	2415		2415	442		442	0	0	0	0	0	Rajgarh Ph-I(1.5GW): Commissioned, Ph-II (1GW): Under Implementation & Ph-III (1.5GW): Under Approval NO FURTHER MARGINS ARE AVAILABLE (BEYOND 4000MW AT PACHORA PS).	
18	Mandsaur PS	Madhya Pradesh	2000		2000	Aug-26 (exptd)	1450	600	2050	284	0	284	266	0	266	1400	0	1400	Aug-26 : Under Implementation With grant of connectivity under GNA to PSP at 400kV level (1512MW), it is considered at PSP shall not inject power under high RE period and hence not considered in given table
19	Dhule PS	Maharashtra	2000		2000	Feb-26 (exptd)	50		50	240		240	1710	0	1710	2000	0	2000	Feb-26 (SCOD): Under Implementation
20	Jamnagar	Gujarat	0		0	Sep-26 (extd).	0	0	0	0	0	0	1000	0	1000	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.
21	Lakadia-I PS	Gujarat	2500		2500	Aug-26 (exptd)	2550	0	2550	0		0	0		0			0	NO FURTHER MARGINS EXIST AT 220kV LEVEL OF LAKADIA S/s
22	Jam Khambhaliya-II	Gujarat	2000		2000	2026-27	0	0	0	909	800	1709	1091	200	1291			0	Substation is uner planning for 3GW in first phase.
23	Raghnesda (GIS)	Gujarat	3000		3000	Jan-27 (Exp. SCOD)	0	600	600		2450	2450		0	0			0	Substation is under Bidding Process NO FURTHER MARGINS ARE NOW AVAILABLE IN UNDER BIDDING SYSTEM. After 3GW, Augmentation shall be required.
24	Bhuj-II PS	Gujarat	2000		2000	0.5GW: Jul'26 & 1.5GW: Nov'26	1942		1942	0	1600	1600	0	0	0	0	0	0	NO FURTHER MARGINS ARE NOW AVAILABLE. For applications received beyond 2000MW, augmentation needs to be taken up.
25	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.
26	Ishanagar	MP	630		630	Feb'26	0		0			0	630	630				0	Under Implementation
27	Karera	MP	0		0	Feb'26	0		0			0		500	500			500	Under Implementation
28	Kurawar	MP	0		0	Sep'26	0		0			0		1000	1000			1000	Under Bidding

Connectivity Margin available at ISTS substations

(all fig. in MW, as on 31-07-2024)

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)	
29	Neemuch PS	MP	1000		1000	2026-27	850		0	200	0	200	0	0	0	0	0	0	Neemuch Ph-I(1GW): Commissioned, Ph-II (1GW): Under Approval NO FURTHER MARGINS ARE AVAILABLE (BEYOND 2000MW AT NEEMUCH PS).
30	Lakadia PS-II (Under Planning)	Gujarat	0		0	2026-27	0		0	3298	3690	6988	0	512	512	0	0	0	Substation is uner planning.
31	Bhuj PS	Gujarat	536		536	2026-27	424		424	36		36	76	0	76	0	0	0	10th ICT at Bhuj PS shall be required for applications beyond 4000MW
	Subtotal WR (Beyond Dec'25)		26666	0	26666		11861	6590	17601	5409	8540	13949	4493	1342	5835	6400	1250	7650	
	Total (WR)		69030	0	69030		26150	31581	56881	5559	8813	14372	4544	2931	7475	6400	1250	7650	

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

1	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)		255793	22500	233293		108781	69051	176981	25495	25914	51409	11998	20231	32229	33109	7285	40394	
	By Jun'25		89163	3000	86163		53519	32831	86349	750	2607	3357	956	1639	2595	100	0	100	
	By Dec'25		34964	5000	29964		15340	15910	31250	157	0	157	179	0	179	500	0	500	
	Beyond Dec'25		131666	14500	117166		39922	20310	59382	24588	23307	47895	10863	18592	29455	32509	7285	39794	

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