Connectivity Margin available at ISTS substations

(all fig. in MW, as on 31-10-2024)

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**	**2050**	**9525**	**0**	**0**	**0**	**0**	**0**	**0**	**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	2050	5945	0	0	0	0	0	0	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**	**3200**	**10140**	**0**	**0**	**0**	**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	1000	5460	0	0	0	0	0	0	0	0	0	2940MW: Existing 2520MW: Dec'24 (Ph-II-D/E) (upto 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**	**0**	**0**	**0**	**50**	**50**	**0**	**0**	**0**	**2865MW: Existing 780MW: Mar'25 (Ph-II-G) 530MW: Dec'25 (upto Aug'26) (Ph-IV Part-I &II) 50MW- Mar'27 (Ph-V Part 1)**
a	Bikaner	Rajasthan	1850	0	1850	Existing	1235	2940	4175	0	0	0	0	50	50	0	0	0	2865MW: Existing 780MW: Mar'25 (Ph-II-G) 530MW: Dec'25 (upto Aug'26) (Ph-IV Part-I &II) 50MW- Mar'27 (Ph-V Part 1)
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: Mar'25 (Ph-II Part-G)
	Sub-Total (Existing)		**21880**	**0**	**21880**		**16650**	**9190**	**25840**	**0**	**0**	**0**	**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 (Nov'28 Pole-1 & May'29 Pole-2)**
2	**Fatehgarh-Barmer Complex**	**Rajasthan**	**7333**	**0**	**7333**		**4095**	**3550**	**7645**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**Feb'25 onwards (Ph-III) (Upto Mar' 27)**
a	Fatehgarh-III (Section-II)	**Rajasthan**	5233	0	**5233**	Feb'25	2070	3550	5620	0	0	0	0	0	0	0	0	0	**Feb'25 onwards- (Ph-III) (Upto Mar'27) . POWERGRID vide mail 30.10.24 informed that space for additional 400/220KV ICT (6th) is not available at Fatehgarh-III S/s (Sec-2). Accordingly earlier available margin of 50MW (at 220kV level) is not available due to technical constraints.**
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 Aug26)**

Connectivity Margin available at ISTS substations

(all fig. in MW, as on 31-10-2024)

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)	
3	(Bikaner Complex) Bikaner-II	Rajasthan	5000	3000	2000	4x500MVA, 400/220kV ICTs: Existing 3x500MVA, 400/220kV ICT: Dec'24 1x500MVA, 400/220kV ICT: Jan'25	3460	0	3460	0	0	0	0	0	0	0	0	0	827MW: Dec'24 (Bikaner-II Additional 400/220kV ICTs) 2633MW: Dec'25 (Upto Aug'26) (Ph-IV Part-I&II)
4	(Ramgarh Complex) Ramgarh	Rajasthan	4000	0	4000	Mar'25	1200	2784	3984	0	0	0	0	0	0	0	0	0	650MW-2900MW : Bhadla HVDC (Nov'28 Pole-1 & May'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		10255	7334	17589	0	0	0	0	0	0	0	0	0	
	Sub-Total NR (By Jun'25)		40713	3000	37713		26905	16524	43429	0	0	0	0	50	50	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 (Dec'28 Pole-1 & Jun'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 of Nov'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): upto Nov'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	50	0	50	0	0	0	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) : Upto Mar'27 (Ph-IV, Part-IV & Ph-V Part-1) For application of >4GW, connectvity 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)	2180	3812	5992	0	0	0	0	0	0	0	0	0	HVDC Corridor is under planning for total 6 GW capacity (Expected Sch.Pole-1:Jun'29, Pole-2: Dec'29].For application of >6GW, connectvity will be provided at Barmer-III PS for which system is under planning (sch.upto Dec'30).
4	(Fatehgarh-Barmer Complex) Barmer-III	Rajasthan	6000	0	6000	Jul'30 to Dec'30 (HVDC)	1304	0	1304	1359	1550	2909	0	0	0	1338	450	1788	HVDC Corridor is under planning for total 6 GW capacity (Expected Sch.Pole-1:Jun'30, Pole-2: Dec'30].

Connectivity Margin available at ISTS substations

(all fig. in MW, as on 31-10-2024)

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)	
5	(Bikaner Complex) Bikaner-IV	Rajasthan	6000	0	6000	Sep'29 to Mar'30 (HVDC)	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. -Nov'26). For application of >6GW, connectvity will be provided at Bikaner-V PS for which system is under planning (sch.upto Mar'30).
6	(Bikaner Complex) Bikaner-V	Rajasthan	6000	0	6000	Sep'29 to Mar'30 (HVDC)	2966	2160	5126	0	1390	1390	284	0	284	0	0	0	HVDC Corridor is being planned for total 6 GW capacity (Expected Sch.Pole-1:Sep'29, Pole-2: Mar'30]. Considering the margins of 284 MW available in already granted bays, total connectivity at Bikaner-V PS will be 5410MW. For application of >6GW, connectvity will be provided at Bikaner-VI PS for which system is to be evolved
7	Sirohi	Rajasthan	3000	1000	2000	Aug'26	1400	700	2100	0	0	0	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 evacutaion (400/220kV ICT & 220kV bays) is recently approved in NCTs part of Raj. REZ Ph-V (Part-1) (Exp. sch. Mar'27). 350MW additional connectvity agreed for grant at Sirohi-II PS. Beyond 2 GW in Sirohi complex, additional transmission system from Sirohi complex is to be identified (Sch.- up to Sep'30).
8	Bhadla Complex (Bhadla-III Section linked to Bhadla HVDC station & system)	Rajasthan	3000	0	3000	Nov'28 to May'29 (5x500MVA, 400/220kV ICT)	1500	1450	2950	0	0	0	50	0	50	0	0	0	3700MW : Mar'25 onwards (Upto Aug'26): cumulative at Ramgarh & Bhadla-III: Raj. (Ph-III) Beyond 3700MW : Bhadla HVDC (Dec'28 Pole-1 & Jun'29 Pole-2). For application of >6.5GW@Bhadla-III, connectvity will be provided at Bhadla-IV PS for which system is under planning (sch.upto Mar'30).
9	Bhadla Complex (Bhadla-IV)	Rajasthan	5000	2000	2000	Sep'29 to Mar'30 (HVDC)	300	2865	3165	400	3260	3660	0	0	0	0	0	0	Transmission system for evacauation of power from Bhadla-IV PS is under planning (6GW HVDC) (Expected Sch.Pole-1:Sep'29, Pole-2: Mar'30]). For application of >6GW, connectvity will be provided at Bhadla-V PS for which system is to be planned
10	Nagaur Complex (Merta-II)	Rajasthan	2000	0	2000	Dec'26	2100	0	2100	0	0	0	0	0	0	0	0	0	Connectivity at Merta-II in Nagaur Complex will be granted upto 2 GW. Immediate evacaution 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 rgional Tr. requirement for 2GW power evacuation for connectivity under GNA is recenly approved in NCT as part of Raj. REZ Ph-V (Part-1) (Sch. Mar'27). 550MW additional connectvity granted/agreed for grant at Merta-III PS. Beyond 2 GW in Merta/Nagaur complex, Tr. system to be identified (Sch.- up to Mar'31).
11	Jalore Complex (Jalore)	Rajasthan	3000	1000	2000	Mar'30 to Sep'30 (HVDC)	900	1000	1900	0	0	0	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 Sep'30).
12	Sanchore Complex (Sanchore)	Rajasthan	3000	1000	2000	Mar'30 to Sep'30 (HVDC)	300	0	300	0	0	0	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 Sep'30).

Connectivity Margin available at ISTS substations

(all fig. in MW, as on 31-10-2024)

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)	
13	Ramgarh Complex Ramgarh-II	Rajasthan	8000	3000	5000	Sep'29 to Mar'30 (HVDC)	847	2700	3547	300	0	300	0	0	0	1153	0	1153	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).
14	Pali Complex (Pali)	Rajasthan	3000	1000	2000	Sep'30 to Mar'31 (HVDC)	600	0	600	0	0	0	0	0	0	1400	0	1400	HVDC Transmission system (6GW) for evacuation of power from Jalore complex (Jalore/Pali/Sanchore) is under planning (Exp. Comm. Schedule up to Mar'31).
15	Pang (Leh)	Ladakh	13000	0	13000	Mar'30 (VSC HVDC)	0	0	0	0	0	0	0	13000	13000	0	0	0	Leh - Ensviaged RE Capacity (13 GW) for connnectivity in Ladakh including Solar, Wind & BESS. However, net evacaution capacity of HVDC tr. system is 5000MW. Connectivity applications in Ladakh are yet to be received.
	Sub-Total NR (Beyond Dec'25)		81500	14500	66000		24977	19037	44014	2109	6200	8309	334	13000	13334	4591	1450	6041	
Total (NR)			130213	20500	108713		55149	37961	93110	2109	6200	8309	334	13050	13384	4591	1450	6041	
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	300	0	300	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 : May'25: Narendra-Pune
3	Tuticorin-II GIS (erstwhile Tirunelvelli (PG))	Tamil Nadu	2500	0	2500	Existing	2510		2510	130	0	130	0	0	0				1870 MW : Existing Tr. System 300 MW: May'25: Narendra-Pune 330 MW: Dec'25 : 6th ICT for N-1 Margins are on existing bays through sharing Some of the under process applications may not be accommodated.
4	Koppal PS	Karnataka	2500	0	2500	Existing	2753	0	2753	0	0	0	0	0	0				1260 MW : Existing Tr. System 1493 MW: May'25: 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: May'25: Narendra-Pune
6	Gadag PS	Karnataka	2500	0	2500	Existing	2383	0	2383	0	0	0	0	0	0				460 MW : Existing Tr. System 1925 MW: May'25: Narendra-Pune
	Sub-Total (Existing)		12050	0	12050		12814	0	12814	130	0	130	0	0	0	300	0	300	
B. Commissioning by Jun'25																			
a	Kurnool-III PS	Andhra Pradesh	4500	0	4500	Nov'24	2390	2650	5040	0	0	0	0	0	0				Mar'25 Kurnool-III PS has been closed for all purposes.
	Sub-Total (By June'25)		4500	0	4500		2390	2650	5040	0	0	0	0	0	0	0	0	0	
	Sub-Total SR (by June'25 incl. existing)		16550	0	16550	0	15204	2650	17854	130	0	130	0	0	0	300	0	300	
C. Commissioning between Jul-25 to Dec-25																			
8	Karur PS (with transformer augmentation under Phase-II)	Tamil Nadu	1500	0	1500	2025-26	1171	0	1171	0	0	0	411	0	411	0	0	0	*2x500 MVA ICTs (5th & 6th) is required to accommodate under process applications.*

Connectivity Margin available at ISTS substations

(all fig. in MW, as on 31-10-2024)

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)	
9	**Koppal-II/ Gadag-II Complex**	**Karnataka**	**8000**	**2000**	**6000**	**2025-26**	**7650**	**1800**	**9450**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**2025-26** **Koppal-II PS and Gadag-II PS has been closed for all purposes.**
a	Koppal-II PS	**Karnataka**	4000	1000	3000	Dec'25	4175	0	4175	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	Dec'25 PSP of 900 MW not considered for determination of margins.
10	**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.**
11	**Pavagada (expansion with ICTs)**	**Karnataka**	**0**	**0**	**0**	Sept'25	800	0	800	0	0	0	0	0	0	0	0	0	800 MW : Sep'25 : 7th ICT
	Sub-Total SR (Jul'25-Dec'25)		**13000**	**2000**	**11000**		**11166**	**4510**	**15676**	**0**	**0**	**0**	**411**	**0**	**411**	**0**	**0**	**0**	
D. Commissioning beyond Dec'25																			
11	**Davangere Complex**	**Karnataka**	**5500**	**1000**	**4500**	**Mar'27**	**3983**	**0**	**3983**	4902	0	4902	**825**	**0**	**825**	**0**	**0**	**0**	**Mar'27 (assuming SPV transfer by Mar'25)**
a	Davangere	**Karnataka**	4000	1000	3000	**Mar'27**	2575	0	**2575**	600	0	600	825	0	825	0	0	0	Mar'27 Augmentation of additional 6x500 MVA & 2x1500 MVA ICTs is required to accommodate under process applications.
b	Bellary	**Karnataka**	1500	0	1500	**Mar'27**	1408	0	**1408**	4302	0	4302	0	0	0	0	0	0	Mar'27 Augmentation of ICTs and transmission line is required to accommodate under process applications. Some of the under process applications may not be accommodated.
12	**Bijapur**	**Karnataka**	**2000**	**0**	**2000**	**Mar'27**	**1962**	**0**	**1962**	2906	1200	4106	**0**	**0**	**0**	**0**	**0**	**0**	**Mar'27 (assuming SPV transfer by Mar'25)** Augmentation of ICTs and transmission line is required to accommodate under process applications. Some of the under process applications may not be accommodated.
13	**Bidar PS**	**Karnataka**	**2500**	**0**	**2500**	**Feb'26**	**4270**	**0**	**4270**	800	0	800	**0**	**0**	**0**	**0**		**0**	**Feb'26** Augmentation of 5x500 MVA ICTs (6th - 10th) and transmission line is required to accommodate under process applications. **Some of the under process applications may not be accommodated.**
14	**Ananthapuram/ Kurnool complex**	**Andhra Pradesh**	**13500**	**0**	**13500**	2026-27	**5522**	**4950**	**10472**	1492	3000	4492	**1146**	**500**	**1646**	**0**	**1000**	**1000**	**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	*• 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**	4500	0	4500	2026-27	2759	1000	3759	792	1500	2292	949	0	949	0	0	0	2026-27 • New Pooling Station under bidding in Ananthapuram area of AP. • Application for 990 MW of PSP sought at Kadapa-II • Additional transmission lines and augmentation of 4x500 MVA ICT (7th to 10th) is required to accommodate under process applications.
c	Kurnool-IV	**Andhra Pradesh**	4500	0	4500	2026-27	2103	0	2103	700	1500	2200	197	500	697	0	1000	1000	2026-27 • New Pooling Station under bidding in Kurnool area of AP. • Augmentation of 3x500 MVA ICT (5th to 7th) is required to accommodate under process applications.

Connectivity Margin available at ISTS substations

(all fig. in MW, as on 31-10-2024)

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)	
15	**Tumkur-II**	**Karnataka**	**1500**	**0**	**1500**	**2026-27**	**2000**	**0**	**2000**	**1900**	**0**	**1900**	100	0	100	500	**0**	**500**	**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
17	**Avairakulam (Off shore)**	**Tamil Nadu**	**500**	**0**	**500**	**2029-30**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**4500**	**0**	**4500**	**Mar'2030**
18	**Pavagada (expansion with ICTs)**	**Karnataka**	**0**	**0**	**0**	**May'26**	**800**	**0**	**800**	**300**	**0**	**300**	**50**	**0**	**50**	**0**	**0**	**0**	**8th, 9th & 10th ICTs**
	Sub-Total SR (Beyond Dec'25)		**30500**	**1000**	**29500**		**18538**	**4950**	**23488**	**12299**	**4200**	**16499**	**7121**	**500**	**7621**	**13500**	**1000**	**14500**	
Total (SR)			**60050**	**3000**	**57050**		**44908**	**12110**	**57018**	**12429**	**4200**	**16629**	**7532**	**500**	**8032**	**13800**	**1000**	**14800**	
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.
2	Radhanesda PS	Gujarat	700		700	Existing	1250		1250	0		**0**	0	0	0				Existing Tr. System.
3	Jam Khambhaliya PS	Gujarat	2000		2000	Existing	1969	0	1969	0	0	**0**	0	0	0	0	0	0	Existing Tr. System.
4	Kallam PS (Ph-I)	Maharashtra	1000		1000	Existing	916	0	916	0	0	**0**	0	0	0				1GW: Commissioned
5	Pachora PS	Madhya Pradesh	1500		1500	Existing	1398		1398	0		**0**	0	0	0				1.5GW: Commissioned
6	Neemuch PS	Madhya Pradesh	1000		1000	Existing	950		950	0		**0**	0	0	0	0	0	0	1GW: Commissioned
7	Solapur S/s	Maharashtra	2000		2000	Existing		2000	2000		0	**0**		0	0				Sep-24: Under Scope of applicant (ReNew). **NO FURTHER MARGINS LEFT.**
8	Khavda I PS (Sec I)	Gujarat	3000		3000	Existing		3000	3000			**0**	0	0	0				3GW: Commissioned
	Subtotal (Existing)		**16700**	**0**	**16700**		**12042**	**5000**	**17042**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	
B. Commissioning by Jun'25																			
9	**Khavda complex**		**10500**		**10500**		**0**	**10500**	**10500**	**0**	**0**	**0**	**0**	**0**	**0**				

Connectivity Margin available at ISTS substations

(all fig. in MW, as on 31-10-2024)

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 II)	Gujarat	4500		4500	Sec-II: Jan'25		4500	4500			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	Khvada III PS (Sec-I)	Gujarat	3000		3000	Jan'25		3000	3000			0	0	0	0				
10	Chhatarpur PS	Madhya Pradesh	0		0	**Scheme dropped.**	0		0			0	0	0	0				Scheme has been dropped as decided in NCT meeting & to be denotified by MoP.
11	Kallam PS (Ph-II)	Maharashtra	1000		1000	Dec-24 (1GW)	983	1022	2005	0	200	200	51	78	129				1GW ICTs: Dec-24 & System for 2.25GW: Under Implementation-Oct-25 (exptd)
	Subtotal (By Jun'25)		**11500**	**0**	**11500**		**983**	**11522**	**12505**	**0**	**200**	**200**	**51**	**78**	**129**				
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-Nov'26 •Ph-V: LCC Bipole-I:Nov'28) & LCC Bipole-II: May'29/ VSC 48 months from 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: 6GW **Total KPS1: 10.5GW** 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): 30GW**
b	Khavda II PS (Sec-I & II)	Gujarat	6000		6000	Sec-I & II ICTs : Feb'26		6000	6000		0	0	0	0	0				
c	Khvada III PS (Sec-I)	Gujarat	1500		1500	Sec-I ICT : Jul'25		1500	1500		0	0	0	0	0				
13	Bhuj PS	Gujarat	500		500	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 reeived 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
11	Parli (New) S/s	Maharashtra	1000		1000	Dec'25 (Bay)		700	700		300	300		0	0				400kV bay under construction (suitable for 1000MW evacuation): Dec'25
	Sub-Total (WR) (Jul'25 to Dec'25)		**11500**	**0**	**11500**		**1414**	**9700**	**11114**	**0**	**300**	**300**	**0**	**0**	**0**	**0**	**0**	**0**	

Connectivity Margin available at ISTS substations

(all fig. in MW, as on 31-10-2024)

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)	
E. Commissioning beyond Dec-25																			
15	**Khavda complex**		**6000**		**6000**		**0**	**5390**	**5390**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**1250**	**1250**	**•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-Nov'26 •Ph-V: LCC Bipole-I:Nov'28) & LCC Bipole-II: May'29/ VSC 48 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** KPS3 - Sec-I: 4.5GW ; Sec-2: 4.5GW **Total KPS3: 9GW** **Total (KPS1, KPS2 & KPS3): 30GW**
b	Khavda II PS (Sec-I & II)	Gujarat	1500		1500	Sec-I ICT: 2026-27		250	250		0	**0**	0	0	**0**		1250	**1250**	
c	Khvada III PS (Sec-I & II)	Gujarat	4500		4500	Sec-II ICTs: Jun-26 (3x1500) & 2026-27 (1x1500)		5140	5140		0	**0**	0	0	**0**		0	**0**	
16	Solapur PS (1.5GW)	Maharashtra	1500		1500	Mar-26 (exptd)	1300.0		1300.0	860	1040	**1900**	300.0	0	**300.0**	**0**	**0**	**0**	**Solapur Ph-I (1.5GW): Mar-26: Under Implementation Solapur Ph-II (2GW): Under Planning**
17	Pachora PS	Madhya Pradesh	2000		2000	Feb-26 (exptd)	2602		2602	0		**0**	0	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)	2398	1200	3598	600	300	**900**	0	0	**0**	**0**	**0**	**0**	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** ICT Augmentation (765/400kV as well as 400/220kV ICTs) shall be required at Mandsaur for under process applications, as applicable. **NO FURTHER MARGINS ARE AVAILABLE (BEYOND 4500MW AT MANDSAUR PS).**
19	Dhule PS	Maharashtra	2000		2000	Feb-26 (exptd)	590		590	0		**0**	1410	0	**1410**	**2000**	**0**	**2000**	Feb-26 (SCOD): Under Implementation

Connectivity Margin available at ISTS substations

(all fig. in MW, as on 31-10-2024)

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	Jamnagar	Gujarat	1000		1000	Sep-26 (extd). 400/220kV ICT Augmentation under planning	0	0	0	1000	0	**1000**	0	0	**0**	**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	2000		2000	Aug-26 (exptd)	2550	0	2550	0		**0**	0		**0**			**0**	**Total 3.5GW Capacity planned at Lakadia S/s and NO FURTHER MARGINS EXIST AT 220kV LEVEL OF LAKADIA S/s**
22	Jam Khambhaliya-II	Gujarat	2000		2000	2026-27	0	0	0	1150	1000	**2150**	2350	0	**2350**			**0**	Substation is under planning for 4.5GW in first phase.
23	Raghanesda (GIS)	Gujarat	3000		3000	Jan-27 (Exp. SCOD)	650	2400	3050	950	2200	**3150**		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	0		0	0.5GW: Jul'26 & 1.5GW: Nov'26	1942		1942	0	1700	**1700**	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	950.5	**951**	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	0		0	Feb'26	0		0			**0**		630	630			0	Under Implementation
27	Karera	MP	0		0	Feb'26	0		0			**0**			0	500		500	Under Implementation
28	Kurawar	MP	0		0	Sep'26	0		0			**0**			0	1000		1000	Under Bidding
29	Neemuch PS	MP	0		0	2026-27	1050		0	0	0	**0**	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	4078	3200	**7278**	0	222	222	0	0	0	Substation is uner planning.
31	Bhuj PS	Gujarat	500		500	2026-27	460		460	0		**0**	76	0	76	0	0	0	10th ICT at Bhuj PS shall be required for applications beyond 4000MW
32	Morena PS (Ph-I)	MP	2500		2500	2027-28	0		0	0		**0**	1100	1400	2500	1500	0	1500	Ph-I (2.5GW) under approval
33	Mahuva Offshore PS (Ph-I)	Gujarat	500		500	2029	0		0	0		**0**	500		500	0	0	0	Scheme under implementation by POWERGRID with SCOD of Mar-29
	Subtotal WR (Beyond Dec'25)		**26000**	**0**	**26000**		**14572**	**8990**	**22512**	**8638**	**10391**	**19028**	**5736**	**2252**	**7988**	**5000**	**1250**	**6250**	
	Total (WR)		**65700**	**0**	**65700**		**29011**	**35212**	**63173**	**8638**	**10891**	**19528**	**5787**	**2331**	**8118**	**5000**	**1250**	**6250**	
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**	**Assam**	**1000**	**0**	**1000**	Dec-26 (exptd)	0	750	750	0	0	0	0	250	250	1500	0	1500	Under Implementation
	Subtotal NER (Beyond Dec'25)		**1000**	**0**	**1000**		**0**	**750**	**750**	**0**	**0**	**0**	**0**	**250**	**250**	**1500**	**0**	**1500**	
Total (All India)			**256963**	**23500**	**232463**		**129068**	**86033**	**214051**	**23176**	**21291**	**44466**	**13653**	**16131**	**29783**	**24891**	**3700**	**28591**	

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