

Status of margins available at existing ISTS substations (non RE) for proposed RE integration												All figures are in MW (as on 31-05-2025)
Name of station	Existing / UC/ Planned MVA Capacity	Capacity Allocated/ Under Process (MW)	Additional Margin on existing / UC system		Line Bays required for RE integration		Additional Margin with ICT Augmentation		Line Bays required for RE integration		No. of Trfs required for RE integration	Remarks
			220kV level	400kV level	220kV level	400kV level	220kV level	400kV level	220kV level	400kV level		
Gujarat												
Navinal (GIS) 765/400kV	4x1500MVA, 765/400kV	1100	0	0	2	1	0	0	0	0	0	Applications beyond 300MW require additional System and are under deliberation
		Total GUJ:	0	0	2	1	0	0	#REF!	#REF!	#REF!	0
Maharashtra												
Aurangabad 765/400/220kV	2x1500MVA, 765/400kV 2x315MVA, 400/220kV	0	0	0	0	0	0	0	0	0	0	Overloading in 220kV downstream network.
Kolhapur 400kV	400kV Switching Station	0	0	0	0	0	0	0	1	0	0	Overloading observed in 400kV Kolhapur (PG)-Kolhapur(MSETCL) D/c line.
Parli (PG) 400/220kV	2x500MVA, 400/220kV	300	0	0	0	0	0	0	0	0	0	300MW capacity has been allocated at Parli (PG) S/s. Overloading in 220kV downstream & Parli 400kV network.
		Total MAH:	0	0	0	0	0	0	1	0	0	0
Madhya Pradesh												
Khandwa 400/220kV	2x315+1x500MVA, 400/220kV	300	0	0	0	0	0	0	0	0	0	300MW Stage-II connectivity & 300MW LTA from Masaya Solar at Khandwa has also been granted. Overloading in 220kV downstream network.
Indore 765/400/220kV	2x500MVA, 400/220kV + (1x500MVA with sectionalisation at 220kV for RE injection)	1224.4	150.6	100	1	1	0	0	0		0	324.4MW LTA has been granted on 1x500MVA with sectionalisation at 220kV for RE injection & 600MW has been granted on 400kV bay. Addl. 300 applications are under process.
Jabalpur PS 765/400	2x1500MVA 765/400kV	0	0	0	0	0	0	0	0	0	0	765/400kV ICT overloading.
Rajgarh 400/220kV	2x315MVA, 400/220kV+ (2x500MVA with sectionalisation at 220kV for RE injection)	1092	0	0	3	0	0	0	0	0	2	Margins at 220kV bay of Srpng: 298.24MW has been granted / agreed for grant to M/s Sprng. Overloading in 220kV downstream network. Margins at 400/220kV ICT-III& IV: 793.6MW has been granted/agreed/received at extended 220kV bus of Rajgarh S/s through addl. 400/220kV, 500MVA ICT(s) for RE injection.
Karera 765/400/220kV	2x1500 MVA, 765/400 kV, 2x500 MVA, 400/220 kV S/s	600	0	0	0	0	0	0				

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			220kV level	400kV level	220kV level	400kV level	220kV level	400kV level	220kV level	400kV level		
Sidhi area	No ISTS Substation exists near Sidhi	300	0	0	0	0	0	0				Application received for 300MW (requested through LILO of Vindhyachal - Satna line). Studies are underway.'
		Total MP:	150.6	100	4	1	0	0	0	0	2	250.6
Chhattisgarh												
Dharamjaygarh 765/400kV	2x1500MVA 765/400kV	0	0	0	0	0	0	0	0	0	0	765/400kV ICT overloading / Fault level issues
Champa 765/400kV	6x1500MVA 765/400kV	0	0	0	0	0	0	0	0	0	0	765/400kV ICT overloading / Fault level issues
Bilaspur PS 765/400kV	3x1500MVA 765/400kV	0	0	0		0	0	0	0	0	0	765/400kV ICT overloading / Fault level issues
		Total Chhat:	0	0	0	0	0	0	0	0	0	0
		Total WR	150.6	100	4	1	0	0	1	0	2	250.6
Andhra Pradesh												
Kurnool (New) 765/400kV	2X1500 MVA, 765/400 kV	2714	0	0		1	0	250		0	1	
		Total AP:	0	0	0	1	0	250	0	0	1	250
Karnataka												
Hiriyur 400/220kV	2x315 MVA, 400/220 kV + 1x500 MVA, 400/220 kV	600.3	0	0	0		0	0		0	0	
		Total Kar:	0	0	0	0	0	0	0	0	0	0
Kerala												
Palakkad (400/220kV)	2x315 MVA, 400/220 kV + 1x500 MVA, 400/220 kV	0	300	0	2	0	0	0	2	0	0	
		Total Ker:	300	0	2	0	0	0	2	0	0	300
Tamil Nadu												
Pugalur(Existing) 400/230kV	2X315 MVA + 1X500 MVA, 400/230 kV	655	0	0			0	0			0	Pugalur(Existing) has been closed for all purpose regarding grant of Connectivity.
Malekottaiyur(Kalive ndapattu) 400/230kV	2X315 MVA + 1X500 MVA, 400/230 kV	NIL	500	0	2		0	0		0	0	
Nagapattinam PS 765/400kV	Charged at 400 kV	NIL	0	1000		2	0	0		0	0	
NLC TS-II	2x250+1x315	160	0	0	0							Overloading at 230 kV network
		Total TN:	500	1000	2	2	0	0	0	0	0	1500
		Total SR	800	1000	2	3	0	250	0	0	1	2050
Rajasthan												
Chittorgarh 765/400kV	765/400kV : 2x1500MVA	NIL	0	0	0	0	0	0	0	0	0	
Ajmer 765/400kV	765/400kV : 2x1500MVA	NIL	0	0	0	0	0	0	0	0	0	
Bassi	400/220 kV : 2x315MVA +1x500MVA	NIL	0	0	0	0	0				0	220kV overloading

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			220kV level	400kV level	220kV level	400kV level	220kV level	400kV level	220kV level	400kV level		
Bhiwadi	400/220 kV : 3x315MVA	NIL	0	0	0	0	0				0	220kV overloading
Kankroli	400/220 kV : 3x315MVA	NIL	0	0	0	0	0				0	220kV overloading
Kota	400/220 kV : 2x315MVA	NIL	0	0	0	0	0				0	220kV overloading
Bhinmal	400/220 kV : 2x315MVA+1x315 MVA UC	NIL	0	0	0	0	0	0	0	0	0	220kV overloading
Neemarana	400/220 kV : 1x315MVA +1x500MVA	NIL	0	0	0	0	0	0	0	0	0	220kV overloading
Sikar	400/220 kV : 2x315MVA +1x500MVA	NIL	0	0	0	0	0				0	220kV overloading
Jaipur (South)	400/220 kV : 2x500MVA	NIL	0	0	0	0	0	0	0	0	0	
Kotputli	400/220 kV : 2x315MVA+1X500MVA (Planned)	NIL	0	0	0	0	0	0	0	0	0	
		Total RAJ	0	0	0	0	0	0	0	0	0	0
Haryana												
Kaithal	400/220 kV : 3X315MVA	NIL	0	0	0	0	0	0	0	0	0	
Bahadurgarh	400/220 kV : 315MVA +500MVA+500MVA (UC)	NIL	0	0	0	0	0	0	0	0	0	
Manesar	400/220 kV : 2X500MVA	NIL	0	0	1	0	0	0	0	0	0	400/220kv ICT over loading
		Total HARY	0	0	1	0	0	0	0	0	0	0
Uttar Pradesh												
Kanpur(New)	765/400 kV : 2x1500MVA+1x1500	NIL	0	500	0	1	0	0	0	0	0	220kV Not available
Fatehpur	765/400kV : 2x1500MVA; 400/220 kV : 2X315MVA	NIL	0	0	0	0	0	0	0	0	0	
Lucknow (new)	765/400 kV : 2x1500MVA	NIL	0	500	0	1	0	0	0	0	0	
Balia	765/400 kV : 2x1500MVA	NIL	0	850	0	1	0	0	0	0	0	220kV Not available.
Bareilly(New)	765/400 kV : 2x1500MVA	NIL	0	500	0	1	0	0	0	0	0	
		Total UP	0	2350	0	4	0	0	0	0	0	2350
		Total NR	0	2350	1	4	0	0	0	0	0	2350
Odisha												
Jeypore	400/220kV: 2x630MVA		1500	0	5							
Keonjhar	400/220kV: 2x315MVA	0	800	0	3							
Pandiabil	400/220kV: 3x500MVA	0	0	0								
Rengali	400/220kV: 2x315MVA	0	500	0	2							

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Angul	765/400: 4x1500MVA	0	0	0								
Baripada	400/220/132: 2x315MVA + 1x500MVA + 2x160MVA		300		2							
Bolangir	400/220kV: 2x315MVA		0									
Indravati	400/220kV: 1x315MVA		0									
Rourkela	400/220kV: 4x315MVA		0									
Sundargarh A (Jharsuguda)	765/400: 2x1500MVA			2500		3						
Sundargarh B (Jharsuguda)	765/400: 2x1500MVA			2500		3						
Paradeep	765/400: 2x1500MVA			3000		3						
Gopalpur	765/400: 2x1500MVA			3000		3						
Total		Total Od:	3100	11000	12	12	0	0	0	0	0	14100
Jharkhand												
Chaibasa	400/220kV: 2x315MVA	0	500	0	2		0	0	0	0	0	
Daltonganj	400/220kV: 2x315MVA	0	500	0	2		0	0	0	0	0	
Ranchi	400/220kV: 2x315MVA + 1x500MVA		800		3		0	0	0		0	
Ranchi (New)	765/400kV: 2x1500MVA	0	0	0			0	0	0	0	0	
Chandwa	400kV switching		0	0			0	0	0	0	0	
Dhanbad	400/200kV: 2x500MVA		500		2							
Total		Total Jh:	2300	0	9	0	0	0	0	0	0	2300
Bihar												
Banka	400/132kV: 2x200MVA + 1x315MVA 400/220kV: 2x500MVA	0	600+700	0	5	0	400	0	0	0	0	100MW at 132kV level in the existing system and 400MW at 220kV level with the implementation of "Augmentation of 400/220kV, 2x500MVA ICT at Banka" Scheme expected by Oct 2024
Lakhisarai	400/132kV: 2x200MVA + 1x315MVA	0	300	0	2	0	0	0	0	0	0	132kV level
Motihari	400/132kV: 2x200MVA + 1x315MVA	0	500	0	2	0	0	0	0	0	0	132kV level
Chandauti	400/220kV: 3x500MVA	0	0	0	0	0	0	0	0	0	0	
Muzaffarpur	400/220kV: 2x315MVA + 2x500MVA	0	800	0	3	0	0	0	0	0	0	line corridor available for 2 lines
Saharsa	400/220kV: 2x500MVA	0	700	0	3	0	0	0	0	0	0	

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			220kV level	400kV level	220kV level	400kV level	220kV level	400kV level	220kV level	400kV level		
Maithon-A	400kV switching	0	0									
Farakka TPS	400/220kV: 2x315MVA	0	0									
Malda	400/220kV: 2x500MVA	0	0									
New Siliguri (Binaguri)	400/220kV: 3x315MVA	0	0									132kV overloaded in present case under N-1 (Siliguri).
Siliguri	220/132kV: 2x160MVA	0	0									132kV overloaded in present case under N-1 (Siliguri).
		Total WB:	0	0	0	0	0	0	0	0	0	0
		ER-Total	16100	11000	63	12	0	0	0	0	0	27100
	All India	All India Total	17050.6	14450	70	20	0	250	1	0	3	31750.6

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