

पॉवर सिस्टम ऑपरेशन कारपोरेशन लिमिटेड

राष्ट्रीय भार प्रेषण केंद्र, नई दिल्ली

साप्ताहिक रिपोर्ट (19 अक्टूबर 2020 से 25 अक्टूबर 2020 तक)

रिपोर्टिंग तिथि:- 29-Oct-20

(आई० ई० जी० सी० की धारा संख्या-5.5.1 के अंतर्गत)

1. अधिकतम मांग आपूर्ति और अधिकतम कमी (मे०वा०)

दिनांक	उत्तरी क्षेत्र		पश्चिमी क्षेत्र		दक्षिणी क्षेत्र		पूर्वी क्षेत्र		पूर्वोत्तर क्षेत्र		कुल	
	अधिकतम मांग आपूर्ति (मे०वा०)	अधिकतम कमी (मे०वा०)	अधिकतम मांग आपूर्ति (मे०वा०)	अधिकतम कमी (मे०वा०)	अधिकतम मांग आपूर्ति (मे०वा०)	अधिकतम कमी (मे०वा०)	अधिकतम मांग आपूर्ति (मे०वा०)	अधिकतम कमी (मे०वा०)	अधिकतम मांग आपूर्ति (मे०वा०)	अधिकतम कमी (मे०वा०)	अधिकतम मांग आपूर्ति (मे०वा०)	अधिकतम कमी (मे०वा०)
19-10-2020	48712	600	50634		37734		22880	40	2872	6	162832	646
20-10-2020	48869	540	50636	18	36568		22994		2968	8	162035	566
21-10-2020	48024	290	50503		37259		22246		2875	22	160907	312
22-10-2020	48315	510	50040		37540		21322		2619	297	159836	807
23-10-2020	49007		50140		37471		20018		2226	22	158862	22
24-10-2020	46852	90	48558		37009		18904		2172	6	153495	96
25-10-2020	43267	6	43236		32631		17901		2264	10	139299	16

2. ऊर्जा आपूर्ति और पनबिजली उत्पादन (मि०यू०)

क्षेत्र / तिथि	उत्तरी क्षेत्र		पश्चिमी क्षेत्र		दक्षिणी क्षेत्र		पूर्वी क्षेत्र		पूर्वोत्तर क्षेत्र		कुल	
	ऊर्जा आपूर्ति (मि०यू०)	पनबिजली उत्पादन (मि०यू०)	ऊर्जा आपूर्ति (मि०यू०)	पनबिजली उत्पादन (मि०यू०)	ऊर्जा आपूर्ति (मि०यू०)	पनबिजली उत्पादन (मि०यू०)	ऊर्जा आपूर्ति (मि०यू०)	पनबिजली उत्पादन (मि०यू०)	ऊर्जा आपूर्ति (मि०यू०)	पनबिजली उत्पादन (मि०यू०)	ऊर्जा आपूर्ति (मि०यू०)	पनबिजली उत्पादन (मि०यू०)
19-10-2020	1062	165	1148	33	814	130	483	101	54	21	3561	450
20-10-2020	1055	159	1166	33	802	125	485	95	54	18	3563	430
21-10-2020	1042	156	1165	34	792	117	473	91	53	19	3524	417
22-10-2020	1040	149	1162	34	802	114	456	90	49	20	3509	407
23-10-2020	1030	145	1156	39	815	117	421	85	43	21	3464	406
24-10-2020	997	143	1146	38	811	128	413	84	38	24	3405	417
25-10-2020	931	140	1075	34	762	120	387	81	40	26	3194	400

3. आवृत्ति (प्रतिशत समय में)

तिथि	49.8-49.9	<49.9	49.9-50.05	>50.05	Average	FVI
	ऑ० ई० ग्रिड	ऑ० ई० ग्रिड	ऑ० ई० ग्रिड	ऑ० ई० ग्रिड	ऑ० ई० ग्रिड	ऑ० ई० ग्रिड
19-10-2020	6.17	6.55	83.53	9.92	50.00	0.028
20-10-2020	6.96	7.36	81.45	11.19	49.99	0.032
21-10-2020	1.05	1.05	84.25	14.70	50.01	0.019
22-10-2020	0.54	0.54	85.63	13.83	50.01	0.018
23-10-2020	1.71	1.99	84.21	13.80	50.00	0.022
24-10-2020	3.83	3.89	83.65	12.47	50.00	0.024
25-10-2020	1.46	1.46	86.49	12.05	50.00	0.019

\*NEW & SR grid running in synchronisation.

4. NEW ELEMENTS COMMISSIONED

5. Maximum Demand Met during the day & Peak Hour Shortage in States (in MW)

Region	Date	19-10-2020		20-10-2020		21-10-2020		22-10-2020		23-10-2020		24-10-2020		25-10-2020	
	States	Max. Demand Met during the day	Peak hr Shortage	Max. Demand Met during the day	Peak hr Shortage	Max. Demand Met during the day	Peak hr Shortage	Max. Demand Met during the day	Peak hr Shortage	Max. Demand Met during the day	Peak hr Shortage	Max. Demand Met during the day	Peak hr Shortage	Max. Demand Met during the day	Peak hr Shortage
NR	Punjab	6711	0	6917	0	6874	0	6400	0	6487	0	5762	0	5552	0
	Haryana	7235	0	7093	0	7073	0	6859	0	6851	0	6617	0	5878	0
	Rajasthan	11461	0	11617	0	11679	0	11617	0	11772	0	12007	0	11647	0
	Delhi	3780	0	3726	0	3793	0	3791	0	3673	0	3462	0	3001	0
	UP	17607	0	17141	0	16632	310	16906	0	16735	0	16136	90	14982	0
	Uttarakhand	1830	0	1820	0	1848	0	1751	0	1773	0	1803	0	1606	0
	HP	1453	0	1444	0	1481	0	1462	0	1543	0	1495	0	1323	0
	J&K	2384	0	2679	0	2279	0	2510	0	2440	0	2545	0	2506	0
Chandigarh	197	0	191	0	195	0	189	0	188	0	183	0	153	0	
WR	Chhattisgarh	3811	0	3784	0	3755	0	3740	0	3730	0	3518	0	3433	0
	Gujarat	16301	0	16186	0	16091	0	16259	0	16108	0	15672	0	14132	0
	MP	10880	0	11037	0	11129	0	11243	0	11518	0	11699	0	11815	0
	Maharashtra	19139	0	19172	0	19341	0	18922	0	18941	0	18615	0	17432	0
	Goa	473	0	532	18	547	0	492	0	486	0	452	22	392	0
	DD	344	0	352	0	350	0	349	0	348	0	324	0	301	0
	DNH	796	0	796	0	773	0	761	0	800	0	761	0	740	0
	Essar steel	797	0	784	0	800	0	814	0	790	0	857	0	845	0
SR	Andhra Pradesh	7324	0	7453	0	7395	0	7442	0	7470	0	7450	0	7171	0
	Telangana	6560	0	6376	0	6372	0	6495	0	6735	0	6789	0	6678	0
	Karnataka	7654	0	7869	0	7206	0	7284	0	7714	0	7327	0	6926	0
	Kerala	3421	0	3374	0	3377	0	3367	0	3341	0	3235	0	3079	0
	Tamil Nadu	13294	0	13317	0	13406	0	13439	0	13325	0	13106	0	11901	0
	Pondy	348	0	367	0	377	0	372	0	376	0	353	0	291	0
ER	Bihar	5619	40	5745	0	5840	0	5845	0	5611	0	5298	0	4887	0
	DVC	3117	0	3552	0	3566	0	3276	0	3156	0	3091	0	2859	0
	Jharkhand	1581	0	1500	0	1477	0	1503	0	1500	0	1382	0	1341	0
	Odisha	5151	0	5143	0	4635	0	4744	0	4538	0	4561	0	4203	0
	West Bengal	8513	0	8700	0	8329	0	7694	0	6263	0	6139	0	6197	0
Sikkim	91	0	91	0	90	0	91	0	95	0	84	0	68	0	
NER	Arunachal Pradesh	124	1	126	1	123	3	120	1	107	1	104	1	111	2
	Assam	1835	20	1916	6	1930	46	1693	254	1372	15	1241	7	1379	7
	Manipur	205	1	195	2	180	4	188	2	188	2	181	1	196	0
	Meghalaya	315	0	329	0	324	0	336	0	328	1	318	2	301	0
	Mizoram	95	1	99	1	99	1	102	1	105	1	104	1	91	3
	Nagaland	126	2	140	2	132	2	144	2	134	2	136	1	128	2
Tripura	284	2	289	1	276	6	227	11	304	18	250	2	267	1	

## 6. Energy Consumption in States (MUs)

Region	States	19-10-2020	20-10-2020	21-10-2020	22-10-2020	23-10-2020	24-10-2020	25-10-2020
NR	Punjab	144.7	142.8	137.6	131.6	131.8	120.5	112.1
	Haryana	154.0	152.5	150.4	148.5	146.2	143.1	126.0
	Rajasthan	244.1	242.3	240.6	242.2	241.3	239.5	233.1
	Delhi	75.8	74.6	76.0	75.9	74.4	70.8	62.6
	UP	335.0	328.0	322.6	324.9	321.2	308.3	292.1
	Uttarakhand	36.4	36.2	36.8	37.0	36.3	35.6	31.6
	HP	28.6	28.9	29.3	29.5	29.7	29.5	25.2
	J&K	39.9	46.6	44.8	47.4	45.4	46.9	45.0
	Chandigarh	3.5	3.5	3.4	3.4	3.3	3.2	2.9
WR	Chhattisgarh	86.1	85.9	84.6	84.1	83.1	80.5	78.9
	Gujarat	354.9	358.7	357.1	359.7	354.2	344.3	324.4
	MP	243.8	246.4	245.6	245.7	249.9	252.2	247.7
	Maharashtra	410.3	419.9	424.7	419.3	414.8	415.6	376.1
	Goa	9.5	11.3	11.3	10.6	9.6	9.6	8.4
	DD	7.5	7.8	7.8	7.8	7.9	7.4	4.1
	DNH	18.4	18.6	16.5	16.7	18.3	17.3	16.0
	Essar steel	17.6	17.6	17.6	17.7	18.0	19.3	18.9
SR	Andhra Pradesh	159.7	155.0	151.7	154.0	155.2	162.2	158.4
	Telangana	139.4	134.4	134.3	139.4	143.8	144.9	137.0
	Karnataka	156.9	147.7	142.0	146.2	146.6	143.3	135.1
	Kerala	69.6	69.3	69.8	67.6	67.5	65.8	62.0
	Tamil Nadu	281.2	288.6	286.4	287.4	293.7	287.3	263.4
	Pondy	7.1	7.5	7.6	7.6	7.7	7.4	6.2
ER	Bihar	110.1	109.1	110.8	109.7	108.0	102.9	91.5
	DVC	65.4	68.3	65.8	65.6	65.3	65.9	60.3
	Jharkhand	29.7	28.6	29.3	29.4	29.9	28.4	27.1
	Odisha	103.6	104.6	95.1	95.0	92.4	93.5	89.1
	West Bengal	172.7	173.4	170.3	155.0	124.4	121.1	118.4
	Sikkim	1.3	1.2	1.3	1.3	1.4	1.2	1.0
NER	Arunachal Pradesh	2.1	2.2	2.2	2.1	2.2	1.9	1.9
	Assam	32.8	34.3	33.9	30.3	23.7	20.2	21.8
	Manipur	2.5	2.5	2.5	2.6	2.8	2.4	2.5
	Meghalaya	5.7	5.8	5.8	5.8	5.9	5.7	5.5
	Mizoram	1.6	1.6	1.7	1.6	1.6	1.3	1.4
	Nagaland	2.3	2.2	2.4	2.4	2.5	2.4	2.2
	Tripura	6.7	5.5	4.9	4.3	3.9	3.9	4.4
<b>ALL INDIA TOTAL</b>		<b>3560.5</b>	<b>3563.3</b>	<b>3524.5</b>	<b>3509.4</b>	<b>3463.6</b>	<b>3405.1</b>	<b>3194.4</b>

**पॉवर सिस्टम ऑपरेशन कारपोरेशन लिमिटेड**  
**राष्ट्रीय भार प्रेषण केंद्र, नई दिल्ली**

साप्ताहिक रिपोर्ट (19 अक्टूबर 2020 से 25 अक्टूबर 2020 तक)

(आई० ई० जी० सी० की धारा संख्या-5.5.1 के अंतर्गत)

7. अंतर्क्षेत्रीय विनिमय [प्रथम क्षेत्र से द्वितीय क्षेत्र को आयात (+) / निर्यात (-) ]

दिनांक	19-10-2020	20-10-2020	21-10-2020	22-10-2020	23-10-2020	24-10-2020	25-10-2020
East to North	-89.2	-94.2	-84.5	-87.4	-91.7	-89.7	-90.5
East to West	42.5	43.5	42.4	30.5	22.7	9.3	18.6
East to South	-89.6	-90.6	-88.6	-86.2	-83.1	-76.8	-77.5
East to North-East	-15.5	-15.9	-16.4	-11.9	-5.9	-0.7	-3.1
North-East to North	-16.3	-14.5	-14.3	-14.8	-16.0	-17.9	-16.9
West to North	-216.0	-218.1	-236.0	-230.8	-231.6	-204.1	-179.0
West to South	-25.7	-26.3	-11.4	-6.4	-21.8	-42.2	-50.9

**भूटान , नेपाल एवं बांग्लादेश के साथ अंतरराष्ट्रीय विद्युत विनिमय INTERNATIONAL  
EXCHANGE WITH BHUTAN, NEPAL AND BANGLADESH**

**साप्ताहिक रिपोर्ट (19 अक्टूबर 2020 से 25 अक्टूबर 2020 तक)**

दिनांक Date	भूटान BHUTAN		नेपाल NEPAL			बांग्लादेश BANGLADESH		
	Energy Exchange	Day Average (MW)	Energy Exchange	Day Peak (MW)	Day Average (MW)	Energy Exchange	Day Peak (MW)	Day Average (MW)
19-10-2020	29.3	1223	-1.6	-243	-67	-25.4	-1084	-1059
20-10-2020	28.0	1168	-1.5	-256	-63	-24.9	-1072	-1036
21-10-2020	25.7	1073	-1.2	-227	-52	-25.4	-1069	-1058
22-10-2020	27.9	1162	-1.0	-216	-40	-24.9	-1061	-1038
23-10-2020	25.0	1042	-0.4	-131	-17	-19.7	-1025	-820
24-10-2020	24.8	1033	-0.2	-76	-9	-19.2	-1079	-802
25-10-2020	24.4	1016	-0.3	-15	-13	-24.8	-1083	-1035
<b>कुल Total</b>	<b>185.2</b>		<b>-6.3</b>			<b>-164.4</b>		

**8). Major Grid Incidences (Provisional):-**

S.No.	Region	Name of Element (Type/Reference/operat)	Owner / Agency	Outage		Restart		Outage Duration Time	Event (As reported)	Generation Loss(MW)	Load Loss(MW)	Category as per CEA Grid Standards
				Date	Time	Date	Time					
1	NR	11220 KV Bhadra(PG)-Saurya Ujja Solar(SU) (Saurya Ujja) Ck-1	(Saurya Ujja)	19-Oct-20	11:17	19-Oct-20	12:17	01:00	As reported, 220 KV Bhadra(PG)-Saurya Ujja Solar(SU) (Saurya Ujja) Ck-1 tripped due to phase to earth fault. At the same time 220KV ICT-1,2&3 each of 220KV Saurya Ujja Solar(SU) also tripped. As per PMU, no fault is observed. In antecedent condition 220 KV Bhadra(PG)-Saurya Ujja Solar(SU) (Saurya Ujja) Ck-1, 220KV ICT-1,2&3 carrying 28MW, 95MW, 95MW & 97MW respectively.	300	0	GD-1
2	NR	11220 KV Allahabad(PG)-Allahabad Rewa Road(UP) (PG) Ck-2 21220 KV Allahabad(PG)-Allahabad Rewa Road(UP) (PG) Ck-1	POWERGRID, LP	20-Oct-20	15:36	20-Oct-20	16:44	01:08	As reported, 220 KV Allahabad(PG)-Allahabad Rewa Road(UP) (PG) Ck-1 & Ck-2 due to R-Y phase to phase fault. As per PMU, Y-B fault is observed. In antecedent condition 220 KV Allahabad(PG)-Allahabad Rewa Road(UP) (PG) Ck-1 & Ck-2 carrying 660MW & 750MW respectively.	0	0	GR-2
3	NR	1400/220 LV 315 MVA ICT 1 at Makhai(PS) 2400/220 LV 315 MVA ICT 2 at Makhai(PS)	PSCL	23-Oct-20	13:36	23-Oct-20	15:24	01:48	As reported, 400/220 LV 315 MVA ICT 1 & ICT 2 at Makhai(PS) tripped due to fault at 220KV S/S Botawala, the fault was travelled from 220 KV S/S Botawala. At the same time, 220KV Makhai Botawala Ck-1 also tripped on B-N fault. As per PMU, B-N fault is observed. In antecedent condition, 220V Makhai Botawala Ck-1, 400/220 LV 315 MVA ICT 1 & ICT 2 at Makhai(PS) carrying 15MW, 618MW & 618MW respectively.	0	0	GR-2
4	NR	11220 KV Tanakpur(NH)-Sirganj(PG) (PG) Ck-1 21220 KV Sirganj(PG)-Chiganj(UP) (PG) Ck-1 31220 KV Tanakpur(NH)-Chiganj(UP) (PG) Ck-1	POWERGRID,NH&CLP	25-Oct-20	06:23	25-Oct-20	08:30	02:07	As reported, 220 KV Tanakpur(NH)-Sirganj(PG) (PG) Ck-1 & 220 KV Sirganj(PG)-Chiganj(UP) (PG) Ck-1 tripped due to blackout at Chiganj(UP) substation. At the same time, 220 KV Tanakpur(NH)-Chiganj(UP) (PG) Ck-1 also tripped on earth fault. As per PMU, B-N fault is observed followed by three phase fault. In antecedent condition, 220 KV Tanakpur(NH)-Sirganj(PG) (PG) Ck-1 & 220 KV Sirganj(PG)-Chiganj(UP) (PG) Ck-1 & 220 KV Tanakpur(NH)-Chiganj(UP) (PG) Ck-1 carrying 50MW, 340MW & 40MW respectively.	0	0	GR-2
5	WR	Tripping of 1,400 LV Rajpur Bus 4 2,400 LV Rajpur-Wanliha 2	POCIL	19-Oct-20	19:27	19-Oct-20	23:17	03:50	At 400 LV Rajpur substation, 400V Rajpur-Wanliha-2 and 400V Rajpur Bus-4 tripped due to LBB and operation on 420 Tie bus (no feeder connected to dis of Rajpur-Wanliha-2 at Rajpur)	Nil	Nil	GR-2
6	WR	Tripping of 1,220 LV Twins Mapusa 1 2,220 LV Twins Mapusa 2 1,110 LV Twins Ponda 2	Goa	25-Oct-20	14:03	25-Oct-20	15:54	01:51	220V Mapusa-Twins 2 tripped on R phase differential earth fault protection at Mapusa end only. At the same time 220V Mapusa-Twins 1 also tripped at Mapusa end only without any relay indication. 110 LV Twins Ponda 2 which was the only source feeding Twins, tripped on over current protection operation at Ponda end only. 110 LV Twins Ponda 1 CB opened at Ponda end and the inferred to 110 LV Kadamba through T point became dead. With these tripping, 220 LV Twins substation blacked out.	Nil	130	GD-1
7	NER	132 KV Mariani(AS) - Golaghat line	ARECL	19-Oct-20	5:18	19-Oct-20	06:19	01:01	"Golaghat & Bokajan areas of Assam Power System were connected with the rest of NER Grid through 132 KV Mariani(AS) - Golaghat line. 132 KV Bokajan -Dimapur(PG) line kept open to facilitate long shutdown of 220/132 LV, 600 MVA, ICT-1, I-2 Substation. At 05:18 hrs on 19.10.2020, 132 KV Mariani(AS) - Golaghat line tripped. Due to tripping of this element, Golaghat & Bokajan areas of Assam Power System were separated from rest of NER Grid and subsequently collapsed due to no source in these areas."	0	15	GD 1
8	NER	132 LV Baljpara - Tenga line	NHEPCO & D&P, AP	23-Oct-20	3:51	23-Oct-20	04:08	00:17	Khapi area of Arunachal Pradesh Power System is connected with the rest of NER Grid through 132 LV Baljpara - Tenga line. At 03:51 Hrs on 23.10.2020, 132 LV Baljpara - Tenga line tripped. Due to tripping of this element, Khapi area of Arunachal Pradesh Power System was separated from the rest of NER Grid and subsequently collapsed due to no source in this area.	0	18	GD 1
9	NER	132 LV Imphal (Yerombani) - Karong line and 132 LV Kohima - Karong line.	MPCL & D&P, Nagaland	24-Oct-20	9:08	24-Oct-20	09:25	00:17	Karong area of Manipur Power System was connected with the rest of NER Grid through 132 LV Imphal(Yerombani) - Karong line and 132 LV Kohima - Karong line. At 09:08 Hrs on 24.10.2020, 132 LV Imphal(Yerombani) - Karong line and 132 LV Kohima - Karong line tripped. Due to tripping of these elements, Karong area of Manipur Power System was separated from the rest of NER Grid and subsequently collapsed due to no source in this area.	0	13	GD 1