



National Load Despatch Centre
POWER SYSTEM OPERATION CORPORATION LIMITED
(A Government of India Enterprise)

CIN No.: U40105DL2009GOI188682

B-9, QUTUB INSTITUTIONAL AREA, KATWARIA SARAI, NEW DELHI -110016

Ref: POSOCO/NLDC/SO/Weekly Report

Date: 03rd Jan 2020

To,

1. कार्यपालक निदेशक, पू. क्षे. भा. प्रे. के., 14, गोल्फ क्लब रोड, कोलकाता - 700033
Executive Director, ERLDC, 14 Golf Club Road, Tollygunge, Kolkata, 700033
2. कार्यपालक निदेशक, ऊ. क्षे. भा. प्रे. के., 18/ ए, शहीद जीत सिंह सनसनवाल मार्ग, नई दिल्ली - 110016
Executive Director, NRLDC, 18-A, Shaheed Jeet Singh Marg, Katwaria Sarai, New Delhi - 110016
3. कार्यपालक निदेशक, प. क्षे. भा. प्रे. के., एफ-3, एम आई डी सी क्षेत्र, अंधेरी, मुंबई - 400093
Executive Director, WRLDC, F-3, M.I.D.C. Area, Marol, Andheri (East), Mumbai-400093
4. कार्यपालक निदेशक, ऊ. पू. क्षे. भा. प्रे. के., डोंगतिह, लोअर नोंग्रह, लापलंग, शिलोंग - 793006
Executive Director, NERLDC, Dongteih, Lower Nongrah, Lapalang, Shillong - 793006, Meghalaya
5. कार्यपालक निदेशक, द. क्षे. भा. प्रे. के., 29, रेस कोर्स क्रॉस रोड, बंगलुरु - 560009
Executive Director, SRLDC, 29, Race Course Cross Road, Bangalore-560009

Sub: Weekly Status Report 23rd Dec-2019 to 29th Dec-2019.

महोदय/Dear Sir,

आईईजीसी-2010 की धारा स-5.5.1 के प्रावधान के अनुसार, 23 दिसम्बर-2019 से 29 दिसम्बर-2019, सप्ताह की अखिल भारतीय प्रणाली की ग्रिड निष्पादन रिपोर्ट रांभांप्रेके की वेबसाइट पर निम्न लिंक पर उपलब्ध है :-

As per article 5.5.1 of the Indian Electricity Grid Code, the weekly status report pertaining power supply position report of All India Power System for the week 23rd Dec-2019 to 29th Dec-2019., is available at the NLDC website.

Thanking You.

Yours faithfully,

Sr. DGM(SO-I)

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

साप्ताहिक रिपोर्ट (23 दिसम्बर से 29 दिसम्बर 2019 तक)

रिपोर्टिंग तिथि:- 3-Jan-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)
23-12-2019	48874	690	48017		38618		18055		2407	19	155971	709
24-12-2019	48501	539	48324		39385		18234		2436	21	156880	560
25-12-2019	48658	557	46824		37738		17828		2368	27	153416	584
26-12-2019	50216	597	47192		39550		17507		2356	54	156821	651
27-12-2019	50716	705	47726		39097		17393		2385	31	157317	736
28-12-2019	50017	720	47409		38016		17331		2410	24	155183	744
29-12-2019	47987	673	46085		35824		18017		2306	46	150219	719

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)
23-12-2019	949	125	1145	54	945	95	339	36	41	9	3420	320
24-12-2019	961	123	1150	53	965	93	340	31	40	9	3456	309
25-12-2019	970	122	1132	41	929	84	344	32	41	9	3416	288
26-12-2019	993	119	1115	39	950	85	339	29	41	9	3439	281
27-12-2019	1005	118	1116	39	963	87	343	34	41	8	3468	286
28-12-2019	997	118	1111	38	943	78	347	32	41	9	3439	275
29-12-2019	979	123	1090	44	893	73	344	28	39	9	3346	277

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
23-12-2019	9.40	10.22	74.13	15.65	49.99	0.043
24-12-2019	6.03	6.69	80.49	12.82	49.99	0.036
25-12-2019	6.70	7.35	76.74	15.91	49.99	0.038
26-12-2019	0.57	1.10	61.12	37.78	50.04	0.047
27-12-2019	2.05	2.05	67.80	30.15	50.02	0.035
28-12-2019	2.09	2.09	71.75	26.16	50.01	0.034
29-12-2019	3.24	3.41	70.37	26.22	50.01	0.036

*NEW & SR grid running in synchronisation.

4. NEW ELEMENTS COMMISSIONED

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

Region	Date	23-12-2019		24-12-2019		25-12-2019		26-12-2019		27-12-2019		28-12-2019		29-12-2019	
	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	03-01-2020	Peak hr Shortage	Max. Demand Met during the day	Peak hr Shortage
NR	Punjab	5913	0	6103	0	6057	0	6171	0	6619	0	6453	0	5608	0
	Haryana	6835	0	6685	0	6881	0	6901	0	6868	0	6740	0	6201	0
	Rajasthan	12948	0	12994	0	12997	0	12635	0	12949	0	12646	0	12165	427
	Delhi	4486	0	4477	0	4700	0	4740	0	4872	0	4630	0	4691	0
	UP	15326	0	15328	0	15223	545	16375	0	16369	310	16335	1065	16871	160
	Uttarakhand	2049	0	2120	0	2050	0	2136	0	2233	0	2130	0	2087	0
	HP	1700	0	1694	0	1676	38	1644	0	1729	0	1677	0	1553	25
	J&K	2759	690	2470	617	2411	603	2497	624	2625	656	2878	720	2693	673
Chandigarh	264	0	270	0	263	0	280	0	292	0	277	0	256	0	
WR	Chhattisgarh	3666	0	3608	0	3602	0	3351	0	3578	0	3605	0	3606	0
	Gujarat	16097	0	15786	0	15545	0	15467	0	15603	0	15433	0	15146	0
	MP	13714	0	13358	0	13084	0	13466	0	13620	0	13604	0	13583	0
	Maharashtra	21891	0	22403	0	22125	0	21149	0	20969	0	20969	0	20900	0
	Goa	601	0	610	0	564	0	605	0	611	0	529	0	469	0
	DD	329	0	332	0	335	0	325	0	331	0	322	0	294	0
	DNH	813	0	821	0	806	0	816	0	791	0	804	0	783	0
	Essar steel	409	0	301	0	286	0	327	0	352	0	349	0	292	0
SR	Andhra Pradesh	8334	0	8366	0	8292	0	9118	0	8606	0	8436	0	8247	0
	Telangana	10711	0	10749	0	10887	0	11182	0	11180	0	10269	0	9965	0
	Karnataka	11250	0	11574	0	11522	0	12803	0	11741	0	11535	0	10380	0
	Kerala	3522	0	3580	0	3278	0	3624	0	3682	0	3618	0	3325	0
	Tamil Nadu	13616	0	13349	0	12323	0	13414	0	13090	0	13320	0	12037	0
	Pondy	283	0	335	0	320	0	373	0	345	0	340	0	308	0
ER	Bihar	4272	0	4389	0	4278	0	4550	0	4527	0	4637	0	4729	0
	DVC	3340	0	3157	0	3223	0	3127	0	3222	0	3193	0	3141	0
	Jharkhand	1320	0	1310	0	1323	0	1273	0	1349	0	1338	0	1322	0
	Odisha	3675	0	3668	0	3599	0	3578	0	3672	0	4053	0	3956	0
	West Bengal	6007	0	6051	0	5924	0	6067	0	6267	0	6261	0	5643	0
Sikkim	133	0	134	0	136	0	138	0	136	0	132	0	129	0	
NER	Arunachal Pradesh	122	1	114	1	118	2	123	2	121	1	123	2	114	2
	Assam	1365	20	1395	7	1361	12	1370	33	1365	19	1365	11	1356	32
	Manipur	195	1	208	0	203	1	213	1	196	2	198	1	197	4
	Meghalaya	339	0	357	0	332	0	354	0	354	0	371	0	375	0
	Mizoram	109	0	103	1	102	1	101	2	106	1	104	1	98	2
	Nagaland	121	1	131	1	122	2	128	2	128	2	126	2	121	2
Tripura	225	0	219	0	226	2	223	0	221	0	222	0	225	6	

6. Energy Consumption in States (MUs)

Region	States	23-12-2019	24-12-2019	25-12-2019	26-12-2019	27-12-2019	28-12-2019	29-12-2019
NR	Punjab	112.8	118.6	121.2	123.3	120.9	122.1	113.8
	Haryana	125.5	131.1	132.1	134.5	133.6	133.0	124.6
	Rajasthan	232.5	232.8	235.6	232.7	235.0	234.6	231.0
	Delhi	74.2	76.9	76.9	79.2	82.0	80.4	78.0
	UP	280.7	276.6	277.3	293.2	304.8	297.0	308.0
	Uttarakhand	38.8	39.1	40.0	42.2	41.4	41.5	39.1
	HP	30.0	30.4	30.0	30.6	30.4	30.0	27.5
	J&K	50.8	51.4	52.5	52.4	52.5	53.4	52.7
	Chandigarh	4.4	4.5	4.5	4.9	4.9	4.7	4.4
WR	Chhattisgarh	78.0	78.2	78.6	74.5	75.3	75.8	77.2
	Gujarat	326.4	329.8	325.4	324.4	320.9	317.6	306.7
	MP	246.6	239.7	237.4	242.8	245.1	246.2	246.9
	Maharashtra	447.6	456.7	447.8	427.8	428.5	425.5	415.3
	Goa	12.9	13.1	10.9	13.1	13.5	13.4	13.3
	DD	7.2	7.4	7.5	7.4	7.4	7.2	6.7
	DNH	18.9	19.0	19.0	18.9	18.7	18.7	18.4
	Essar steel	7.4	5.6	5.7	6.1	6.5	6.5	5.8
SR	Andhra Pradesh	166.1	167.7	164.5	168.2	172.6	170.1	163.0
	Telangana	218.6	223.4	225.7	222.7	225.7	208.3	204.8
	Karnataka	203.7	209.0	204.1	207.2	211.6	208.1	193.3
	Kerala	71.9	72.5	66.9	72.7	74.4	73.6	66.5
	Tamil Nadu	277.7	285.9	261.1	272.4	271.4	276.3	259.2
	Pondy	6.8	6.7	6.4	6.8	6.8	6.7	6.2
ER	Bihar	72.2	71.6	75.4	75.2	77.7	76.1	80.2
	DVC	66.9	63.5	65.7	63.1	64.9	62.7	64.8
	Jharkhand	25.9	24.1	25.1	24.0	25.1	24.5	25.2
	Odisha	65.7	66.9	65.6	65.3	66.2	70.3	71.6
	West Bengal	106.8	111.8	110.3	109.6	107.0	111.1	100.7
	Sikkim	1.9	2.0	2.0	2.2	2.1	2.1	1.9
NER	Arunachal Pradesh	2.4	2.2	2.2	2.2	2.3	2.2	2.1
	Assam	22.8	21.7	22.5	22.4	22.8	22.4	21.4
	Manipur	2.5	2.7	2.7	2.6	2.7	2.6	2.4
	Meghalaya	6.0	6.0	6.4	6.3	6.2	6.4	6.2
	Mizoram	1.9	1.8	1.8	1.9	1.7	1.7	1.7
	Nagaland	2.1	2.2	2.2	2.3	2.3	2.3	2.1
	Tripura	3.3	3.5	3.7	3.8	3.3	3.5	3.4
ALL INDIA TOTAL		3419.7	3456.0	3416.4	3439.0	3468.2	3438.6	3345.9

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

साप्ताहिक रिपोर्ट (23 दिसम्बर से 29 दिसम्बर 2019 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	23-12-2019	24-12-2019	25-12-2019	26-12-2019	27-12-2019	28-12-2019	29-12-2019
East to North	-64.5	-67.5	-64.0	-68.3	-78.5	-74.0	-73.9
East to West	31.0	30.9	24.6	14.0	10.6	11.2	21.2
East to South	-95.5	-99.6	-97.6	-97.0	-102.6	-94.8	-92.5
East to North-East	6.0	6.2	10.5	10.2	10.6	10.2	11.3
North-East to North	11.5	11.5	11.7	11.8	11.5	11.2	11.4
West to North	-155.9	-158.6	-170.2	-179.5	-192.9	-216.1	-196.2
West to South	-65.4	-71.6	-71.6	-75.9	-80.4	-79.3	-61.1

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

साप्ताहिक रिपोर्ट (23 दिसम्बर से 29 दिसम्बर 2019 तक)

अंतरराष्ट्रीय विद्युत विनिमय [भारत से दूसरे देश को आयात (+) / निर्यात (-)] Transnational Exchange from India (Import=(+ve) /Export =(-ve))

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)
23-12-2019	5.0	209	-7.7	-462	-320	-10.1	-763	-421
24-12-2019	4.8	200	-8.9	-484	-369	-9.9	-762	-414
25-12-2019	5.1	211	-8.7	-513	-362	-7.5	-564	-311
26-12-2019	4.6	190	-8.4	-532	-352	-9.9	-761	-413
27-12-2019	5.4	225	-8.9	-473	-373	-7.0	-528	-291
28-12-2019	5.3	222	-7.9	-443	-329	-8.5	-740	-356
29-12-2019	3.7	154	-9.2	-514	-383	-9.7	-748	-405
कुल Total	33.9		-59.7			-62.7		

8). Major Grid Incidences (Provisional):-													
S.No.	Region	Name of Elements (Tripped/Manually opened)	Owner / Agency	Outage		Revised		Outage Duration		Event (As reported)	Generation (Loss)(MW)	Load Loss(MW)	Category as per CEA Grid Standards
				Date	Time	Date	Time	Start	End				
1	NR	1) 400 KV Bawana CCGTB(DTL) - Bus 2 2) 400 KV Bawana-Mundka (DV) Ckt-1 3) 400 KV Bawana-Mundka (DV) Ckt-2	DTL	28-Dec-19	00:24	28-Dec-19	18:58	18:34	During charging of STG1 at 00.24Hrs, Bus sectionalizer-2 at Bawana tripped due to snapping of jumper resulted 400KV Bawana-Mundka 1 and 2 tripped. No load loss occurred at Delhi. As per PMU, V-N fault is observed in the system. In antecedent conditions, 400KV Bawana-Mundka 1 and 2 carrying 219MW & 212MW respectively.	0	0	GI-2	
2	NR	1) 660 MW Chhabra SCTPS - UNIT 6 2) 660 MW Chhabra SCTPS - UNIT 5 3) 400 KV Anta(RS)-Kawal SCTPS(APR) (RS) Ckt-2	RRVNL	29-Dec-19	07:53	29-Dec-19	10:42	02:49	400 KV Anta(RS)-Kawal SCTPS(APR) (RS) Ckt-2 tripped on R-N fault. At the same time, 660 MW Chhabra SCTPS - UNIT 5 & UNIT 6 tripped due to operation of Generator differential Protection. As per PMU, R-N fault with unsuccessful autoreclosing is observed. In antecedent conditions, Chhabra SCTPS - UNIT 5 & UNIT 6 generating 408MW & 361MW respectively.	780	0	GD-1	
3	NR	1) 800 KV HVDC Champa(PG)-Kurukshetra(PG) Pole-1 2) 800 KV HVDC Champa(PG)-Kurukshetra(PG) Pole-2 3) 800 KV HVDC Champa(PG)-Kurukshetra(PG) Pole-3	POWERGRID	30-Dec-19	10:26	30-Dec-19	12:17	01:51	800KV HVDC Champa-Kurukshetra pole 1, pole 2 & pole 3 tripped at 10:26Hrs due to CNAP(Common Neutral Area Protection) protection alarm present at champa end. 800KV HVDC Champa-Kurukshetra pole 2 & pole 3 charged at 11:32Hrs & 11:45Hrs respectively and again got tripped at 11:51Hrs due to same reason. As per PMU, Fluctuations observed in the phase voltages. In antecedent conditions, 800KV HVDC Champa-Kurukshetra pole 1, pole 2 & pole 3 carrying 1050MW, 250MW & 200MW respectively.	0	0	GI-2	
4	WR	Tripping of 1)800 KV HVDC Champa - Kurukshetra Pole I 2)800 KV HVDC Champa - Kurukshetra Pole II 3)800 KV HVDC Champa - Kurukshetra Pole III	PGCIL	30-Dec-19	10:26	30-Dec-19	11:32	01:06	At 800 KV HVDC Champa s/s, Pole 1&2 blocked on Common Neutral Area Protection at Champa end and at the same time pole 3 blocked on CAT-B protection operation.	Nil	Nil	GI-2	
5	WR	Tripping of 1)800 KV HVDC Champa - Kurukshetra Pole II 2)800 KV HVDC Champa - Kurukshetra Pole III	PGCIL	30-Dec-19	11:51	30-Dec-19	12:44	00:53	At 800 KV HVDC Champa s/s, Pole 2 blocked due to Earth overcurrent protection operation and pole 3 blocked on CAT-B protection operation.	Nil	Nil	GI-2	
6	SR	1) 220KV Shimoga - Sharavathi Line-IV 2) All 220KV connected lines tripped.	KPTCL	25-Dec-19	17:44	25-Dec-19	18:09	25 mins	Complete loss of supply at 220KV Shimoga SS of KPTCL. Triggering incident was line to line fault in 220KV Shimoga-Sharavathi line -4. Bus-1 Bus bar protection operated at 220KV Shimoga resulting in complete loss of supply since all the elements were connected to Bus-1 during antecedent conditions.	80 MW	GD-1	
7	ERLDC	220KV CTPS A - CTPS B D/C	DVC	28-Dec-19	05:26	28-Dec-19	08:51	03:25	At 05:26 hrs 220KV CTPS A-CTPS B D/C tie lines tripped on differential protection resulting tripping of all 220 KV feeders at CTPS A and all 220/132 KV at CTPS A. At the same time, UMS of CTPS B also tripped.	193	300	GD-1	
8	NER	132 KV Aizawl-Luangmual line	P&ED, Mizoram	24-Dec-19	06:54	24-Dec-19	07:39	00:45	Luangmual area of Mizoram Power System was connected with the rest of NER Grid through 132 KV Aizawl-Luangmual line. At 06:54 Hrs on 24.12.2019, 132 KV Aizawl-Luangmual line tripped. Due to tripping of this element, Luangmual area was separated from the rest of NER Grid and subsequently collapsed due to no source in this area.	0	31	0	
9	NER	132 KV Silchar- Hallakandi-1 & 2 Lines, 132 KV Hallakandi- Dullavchera Line and 132 KV Hallakandi-Panchgram Line	AEGCL	27-Dec-19	05:08	27-Dec-19	05:24	00:16	Hallakandi area of Assam Power System was connected with the rest of NER Grid through 132 KV Silchar- Hallakandi-1 & 2 Lines, 132 KV Hallakandi - Dullavchera Line and 132 KV Hallakandi - Panchgram Line. At 05:08 Hrs on 27.12.19, 132 KV Silchar- Hallakandi-1 & 2 Lines, 132 KV Hallakandi-Dullavchera Line and 132 KV Hallakandi- Panchgram Line tripped. Due to tripping of these elements, Hallakandi area was separated from the rest of NER Grid and subsequently collapsed due to no source in this area.	0	12	0	
10	NER	132 KV Ziro - Daporijo line	POWERGRID	30-Dec-19	07:23	30-Dec-19	07:40	00:17	Daporijo area of Arunachal Pradesh Power System was connected with the rest of NER Grid through 132 KV Ziro - Daporijo line. At 07:23 Hrs on 30.12.19, 132 KV Ziro - Daporijo line tripped. Due to tripping of this element, Daporijo area was separated from the rest of NER Grid and subsequently collapsed due to no source in this area.	0	12	0	