



National Load Despatch Centre
पॉवर सिस्टम ऑपरेशन कारपोरेशन लिमिटेड
POWER SYSTEM OPERATION CORPORATION LIMITED

(A wholly owned subsidiary of POWERGRID)

CIN No.: U40105DL2009GOI188682

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

Ref:POSOCO/NLDC/SO/Weekly Report

Date: 22nd January 2016

To,

1. महाप्रबंधक, पू. क्षे. भा. प्रे. के., 14, गोल्फ क्लब रोड , कोलकाता - 700033
General Manager, ERLDC, 14 Golf Club Road, Tolleygunge, Kolkata, 700033
2. महाप्रबंधक, ऊ. क्षे. भा. प्रे. के., 18/ ए , शहीद जीत सिंह सनसनवाल मार्ग, नई दिल्ली - 110016
General Manager, NRLDC, 18-A, Shaheed Jeet Singh Marg, Katwaria Sarai, New Delhi – 110016
3. महाप्रबंधक, प. क्षे. भा. प्रे. के., एफ-3, एम आई डी सी क्षेत्र , अंधेरी, मुंबई - 400093
General Manager, WRLDC, F-3, M.I.D.C. Area, Marol, Andheri (East), Mumbai-400093
4. महाप्रबंधक, ऊ. पू. क्षे. भा. प्रे. के., डोंगतेिह, लोअर नॉग्रह , लापलंग, शिल्लोंग - 793006
General Manager, 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 11th January to 17th January 2016.

महोदय/Dear Sir,

आई॰ई॰जी॰सी॰-2010 की धारा स.- 5.5.1 के प्रावधान के अनुसार, 11 जनवरी से 17 जनवरी -2016, सप्ताह की अखिल भारतीय प्रणाली की ग्रिड निष्पादन रिपोर्ट रा॰भा॰प्रे॰के॰ 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 11th January to 17th January 2016, is available at the NLDC website, at the following link.

<http://www.nldc.in/attachments/article/267/Weekly%20110116%20to%20170116.pdf>

Thanking You.

Yours faithfully,


DGM (SO)

पावर सिस्टम ऑपरेशन कारपोरेशन लिमिटेड

राष्ट्रीय भार प्रेषण केंद्र, नई दिल्ली

साप्ताहिक रिपोर्ट (11 जनवरी से 17 जनवरी -2016 तक)

रिपोर्टिंग तिथि:- 20-Jan-16

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

1. अधिकतम मांग आपूर्ति और आधिकतम कमी (मे०वा०)

दिनांक	उत्तरी क्षेत्र		पश्चिमी क्षेत्र		दक्षिणी क्षेत्र		पूर्वी क्षेत्र		पूर्वोत्तर क्षेत्र		कुल	
	अधिकतम मांग आपूर्ति	आधिकतम कमी	अधिकतम मांग आपूर्ति	आधिकतम कमी	अधिकतम मांग आपूर्ति	आधिकतम कमी	अधिकतम मांग आपूर्ति	आधिकतम कमी	अधिकतम मांग आपूर्ति	आधिकतम कमी	अधिकतम मांग आपूर्ति	आधिकतम कमी
	(मे०वा०)	(मे०वा०)	(मे०वा०)	(मे०वा०)	(मे०वा०)	(मे०वा०)	(मे०वा०)	(मे०वा०)	(मे०वा०)	(मे०वा०)	(मे०वा०)	(मे०वा०)
11-01-2016	40086	1691	42372	151	34105	500	16649	150	2285	76	135497	2568
12-01-2016	40854	1176	42867	155	34301	500	16659		2298	94	136980	1925
13-01-2016	38086	2357	42957	116	34151	700	16712	144	2279	65	134186	3382
14-01-2016	38122	3352	38126	220	32576	695	16864	350	2272	86	127960	4703
15-01-2016	38150	2716	39819	115	29378	400	16856	52	2231	84	126434	3367
16-01-2016	38215	6978	40834	225	30161	400	15785		2299	70	127294	7673
17-01-2016	37637	2475	39208	167	29337	400	16125	128	2228	73	124536	3243

2. ऊर्जा आपूर्ति और पनबिजली उत्पादन (मि०यू०)

क्षेत्र / तिथि	उत्तरी क्षेत्र		पश्चिमी क्षेत्र		दक्षिणी क्षेत्र		पूर्वी क्षेत्र		पूर्वोत्तर क्षेत्र		कुल	
	ऊर्जा आपूर्ति	पनबिजली उत्पादन	ऊर्जा आपूर्ति	पनबिजली उत्पादन	ऊर्जा आपूर्ति	पनबिजली उत्पादन	ऊर्जा आपूर्ति	पनबिजली उत्पादन	ऊर्जा आपूर्ति	पनबिजली उत्पादन	ऊर्जा आपूर्ति	पनबिजली उत्पादन
	(मि०यू०)	(मि०यू०)	(मि०यू०)	(मि०यू०)	(मि०यू०)	(मि०यू०)	(मि०यू०)	(मि०यू०)	(मि०यू०)	(मि०यू०)	(मि०यू०)	(मि०यू०)
11-01-2016	849	116	979	25	772	47	321	17	39	6	2960	211
12-01-2016	861	145	989	27	790	50	336	17	39	7	3014	247
13-01-2016	846	121	990	29	794	59	339	16	39	8	3008	232
14-01-2016	814	116	934	25	780	47	339	19	40	7	2907	213
15-01-2016	812	109	940	25	716	44	340	12	38	8	2847	198
16-01-2016	804	109	956	24	704	49	335	13	38	8	2837	202
17-01-2016	821	101	936	24	691	44	327	13	38	7	2812	188

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
11-01-2016	3.99	4.07	66.27	29.65	50.02	0.044
12-01-2016	4.44	4.46	66.66	28.89	50.02	0.048
13-01-2016	7.15	7.43	71.90	20.67	50.00	0.050
14-01-2016	7.15	15.15	62.12	22.73	50.00	0.067
15-01-2016	8.68	8.89	63.13	27.99	50.00	0.062
16-01-2016	20.93	23.80	62.36	13.84	50.00	0.081
17-01-2016	8.80	8.90	72.47	18.63	50.00	0.045

*NEW & SR grid running in synchronisation.

4. NEW ELEMENTS COMMISSIONED

1. On 11.01.2016 400KV Dhule-Dhule-I & II charged for the first time at 2012 and 2339hrs respectively.

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

Region	Date	11-01-2016		12-01-2016		13-01-2016		14-01-2016		15-01-2016		16-01-2016		17-01-2016	
	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	5334	0	5438	0	4632	0	4695	0	5126	0	5372	0	5131	0
	Haryana	6462	0	6572	0	6046	428	6415	0	6321	413	6214	271	5890	0
	Rajasthan	10318	0	10531	0	10236	0	9559	332	8960	0	8704	0	9699	671
	Delhi	3604	1	3624	0	3646	0	3708	0	3962	4	3667	6	3598	9
	UP	10892	1100	10992	580	10449	1205	10510	990	10441	950	10889	1585	10660	390
	Uttarakhand	1908	0	1904	0	1906	0	1899	0	1794	75	1884	75	1882	0
	HP	1417	0	1421	0	1383	32	1460	6	1406	103	1418	0	1334	0
	J&K	2065	516	2099	525	2201	550	2152	538	2005	501	1983	496	2008	502
Chandigarh	218	0	213	0	223	0	222	0	228	0	218	0	205	0	
WR	Chhattisgarh	3454	96	3527	96	3424	96	3333	96	3446	96	3342	96	3328	96
	Gujarat	12961	0	12986	0	12615	0	11337	0	11320	8	12538	8	12741	0
	MP	10675	0	10734	0	10823	0	10737	0	10653	0	9995	0	9849	0
	Maharashtra	18304	14	18388	14	18534	12	18634	12	18440	36	18345	36	17794	13
	Goa	406	0	424	0	414	0	412	0	416	0	422	0	351	0
	DD	287	0	298	0	272	0	259	0	268	0	289	0	267	0
	DNH	693	0	689	0	693	0	671	0	673	0	681	0	672	0
	Essar steel	417	0	398	0	338	0	374	0	384	0	392	0	373	0
SR	Andhra Pradesh	6383	0	6700	0	6620	0	6471	0	6368	0	6009	0	5811	0
	Telangana	6087	0	6179	0	6155	0	6348	0	5979	0	5813	0	5588	0
	Karnataka	8516	700	8669	800	8795	800	8809	500	8671	500	8528	800	8376	400
	Kerala	3360	0	3435	0	3422	0	3357	0	3348	0	3290	0	3073	0
	Tamil Nadu	12764	0	13233	0	13207	0	12676	0	10827	0	10600	0	10394	0
	Pondy	305	0	307	0	297	0	290	0	230	0	215	0	204	0
ER	Bihar	3494	150	3546	0	3546	100	3546	100	3546	0	3546	0	3546	100
	DVC	2430	0	2326	0	2499	0	2572	50	2531	0	2340	0	2429	0
	Jharkhand	994	0	1030	0	1079	0	1064	100	1041	52	960	0	1060	0
	Odisha	3499	0	3545	0	3677	0	3691	0	3849	0	3762	0	3694	0
	West Bengal	6328	0	6545	0	6410	19	6746	0	6340	0	5801	0	5656	28
	Sikkim	94	0	93	0	88	0	91	0	104	0	102	0	94	0
NER	Arunachal Pradesh	105	1	107	2	110	1	111	0	110	1	108	4	108	4
	Assam	1278	32	1286	50	1318	2	1276	33	1260	1	1294	7	1236	36
	Manipur	153	4	152	5	156	1	159	1	159	1	159	3	152	0
	Meghalaya	359	1	364	1	338	2	357	1	355	3	361	6	349	6
	Mizoram	84	2	84	2	85	1	88	0	93	0	95	3	90	2
	Nagaland	113	3	114	2	114	2	121	0	105	5	105	6	103	5
	Tripura	214	1	215	1	207	1	216	0	214	1	209	2	204	0

6. Energy Consumption in States (MUs)

Region	States	11-01-2016	12-01-2016	13-01-2016	14-01-2016	15-01-2016	16-01-2016	17-01-2016
NR	Punjab	106.2	107.3	85.0	86.6	96.1	100.6	92.2
	Haryana	115.2	118.6	117.0	117.7	114.5	119.3	111.8
	Rajasthan	223.9	224.9	233.8	211.9	201.2	174.9	209.9
	Delhi	60.6	61.7	61.8	61.9	64.9	63.6	60.7
	UP	234.6	240.3	237.0	228.7	229.0	238.6	239.9
	Uttarakhand	36.0	36.1	36.0	33.2	31.9	33.4	34.7
	HP	26.3	26.2	25.9	25.0	25.3	25.7	23.4
	J&K	42.9	42.6	45.3	45.3	45.1	44.2	44.8
Chandigarh	3.6	3.7	3.8	3.9	4.0	3.8	3.5	
WR	Chhattisgarh	73.0	73.4	74.2	74.4	74.8	72.7	73.2
	Gujarat	277.9	280.1	278.8	225.1	240.4	266.8	267.6
	MP	215.0	216.9	218.3	215.9	212.3	202.7	196.6
	Maharashtra	375.9	381.2	382.6	381.9	375.5	376.0	362.5
	Goa	6.9	8.1	8.2	8.1	8.6	7.7	7.0
	DD	6.2	6.5	6.0	5.8	5.7	6.5	5.7
	DNH	15.8	16.1	16.1	15.5	15.8	15.7	15.7
	Essar steel	8.7	6.8	6.3	7.4	7.3	7.7	7.4
SR	Andhra Pradesh	135.2	135.7	133.9	131.6	124.0	120.1	110.4
	Telangana	127.9	129.4	130.2	128.9	118.9	120.9	120.1
	Karnataka	183.5	182.5	186.6	186.0	180.4	183.3	182.3
	Kerala	61.0	62.6	62.6	62.6	62.0	61.7	56.6
	Tamil Nadu	258.7	274.0	274.2	265.1	225.9	213.4	217.2
	Pondy	5.9	5.9	6.1	5.9	5.0	4.6	4.3
ER	Bihar	63.4	65.7	66.2	66.2	65.3	65.5	65.1
	DVC	58.8	59.3	59.1	58.5	60.8	59.3	52.8
	Jharkhand	22.6	23.3	22.8	23.0	22.9	23.2	23.0
	Odisha	54.8	59.2	63.4	64.5	67.7	67.2	68.4
	West Bengal	119.8	125.8	124.4	125.2	121.5	117.8	115.8
	Sikkim	1.4	2.2	2.7	1.3	2.2	1.6	1.5
NER	Arunachal Pradesh	2.0	2.0	2.0	2.0	2.0	1.9	2.0
	Assam	21.6	22.0	22.3	22.6	21.1	21.7	21.7
	Manipur	2.6	2.4	2.4	2.5	2.6	2.6	2.5
	Meghalaya	5.7	5.6	5.9	5.8	5.6	5.5	5.4
	Mizoram	1.5	1.5	1.5	1.5	1.5	1.5	1.5
	Nagaland	2.3	2.1	2.1	2.1	2.1	2.0	2.1
	Tripura	3.1	3.0	3.2	3.2	3.1	3.1	2.8
ALL INDIA TOTAL		2960.5	3014.7	3007.5	2906.8	2846.9	2836.9	2812.0

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

साप्ताहिक रिपोर्ट (11 जनवरी से 17 जनवरी -2016 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	11-01-2016	12-01-2016	13-01-2016	14-01-2016	15-01-2016	16-01-2016	17-01-2016
East to North	-26.0	-34.6	-33.8	-35.4	-19.0	-6.0	-3.3
East to West	-7.0	-12.6	-22.4	-16.4	1.0	-8.0	-1.1
East to South	-22.0	-24.4	-24.6	-37.2	-50.0	-53.0	-58.0
East to North-East	-24.0	-15.7	-12.4	-15.8	-20.0	-24.0	-16.4
North to North-East	12.4	-5.3	2.0	3.8	8.7	11.7	14.0
West to North	-96.2	-101.5	-103.7	-83.3	-42.3	-50.4	-51.0
West to South	-55.2	-52.5	-54.0	-59.6	-56.2	-49.9	-59.6

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

साप्ताहिक रिपोर्ट (11 जनवरी से 17 जनवरी -2016 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			बाग्लादेश BANGLADESH		
	Energy Exchange (In MU)	Day Average (MW)	Energy Exchange (In MU)	Day Peak (MW)	Day Average (MW)	Energy Exchange (In MU)	Day Peak (MW)	Day Average (MW)
11-01-2016	2.8	115	-5.1	-253	-212	-9.3	-469	-385
12-01-2016	2.6	107	-4.8	-233	-202	-9.1	-465	-377
13-01-2016	2.6	106	-4.9	-215	-204	-9.2	-471	-385
14-01-2016	2.2	90	-4.7	-217	-195	-9.3	-417	-387
15-01-2016	2.2	93	-5.3	-214	-221	-8.1	-471	-339
16-01-2016	2.0	85	-4.6	-232	-190	-8.3	-469	-348
17-01-2016	2.2	92	-4.6	-231	-192	-9.2	-469	-384
कुल Total	16.5		-34.0			-62.5		

8). Major Grid Incidences (Provisional):-

S.No.	Region	Name of Elements	Owner / Agency	Outage		Revival		Outage Duration	Event	Generation Loss(MW)	Load Loss(MW)	Category as per CEA Grid Standards
				Date	Time	Date	Time	Time				
1	ER-SR	1) 400 KV Jeypore-Gazuwaka-I 2) HVDC B/B Gazuwaka Pole-II	PG	12.01.2016	21:28	12.01.2016	22:23	0:55	400 KV Jeypore-Gazuwaka 1 tripped at 2128 Hrs on Y phase to E/F consequently Gazuwaka pole 2 tripped at same time on DC Current low alarm.			GI-II
2	WR-NR	1) 765 kV Gwalior-Agra-D/C 2) Many Lines in NR at 400 kV level	WR/NR	14.01.2016	7:14	14.01.2016	12:15	5:01	Dense fog was reported from many areas in Northern Region. During such dense fog conditions, number of the 400kV and above voltage level lines had tripped on phase to earth fault/ over voltage. To avoid frequent auto restart & outage, 500kV HVDC Mundra-Mohindergarh Bipole & HVDC Rihand-Dadri were taken into RVO mode at 03:01 & 05:38hrs respectively. Thus power order on them reduced to 1850MW & 1016 MW from 2500MW & 1100 MW respectively. Important link of WR-NR, 765kV Agra-Gwalior ckt-2 tripped on phase to earth fault at 07:14hrs & 765kV Agra-Gwalior ckt-1 tripped on phase to earth fault at 07:30hrs. Agra-Gwalior SPS operation has also been reported due to tripping of both the line resulted into sudden reduction of power flow in Agra-Gwalior ckt-1&2 more than 1500MW.	500	1000	GI-II
3	WR-NR	1) 765 kV Gwalior-Agra-D/C 2) Many Lines in NR at 400 kV level	WR/NR	14.01.2016	23:02	15.01.2016	10:52	11:50	765kV Agra-Gwalior ckt-2 tripped on phase to earth fault at 23:02hrs & subsequently, 765kV Agra-Gwalior ckt-1 tripped on phase to earth fault at 23:08hrs. Agra-Gwalior SPS operation has also been reported due to tripping of both the lines. At 02:56hrs 765kV Agra-Jhatikala tripped on 3-phase fault. Charging attempt also failed at 03:33hrs. 765kV Jhatikala-Bhiwani line also tripped at 03:22hrs on 3-phase fault. Charging attempt of this line failed at 04:13hrs. Three 765/400kV ICTs(1,2&4) of 765/400kV Jhatikala (PG) reportedly tripped on differential protection in between 03:33hrs to 03:46hrs. 765/400kV ICT-3 of Jhatikala (PG) also tripped on differential protection at 05:401us. 400kV Agra-Auraiya both circuits tripped. 220kV IR lines between WR-NR, i.e. Auraiya-Malanpur & Auraiya-Mehagaon line also tripped at 01:57hrs & 02:04hrs respectively. At 05:50hrs HVDC Agra-BNC (Pole-1) tripped on DC line fault. During the morning hours of 15th Jan 2016, 400kV Phagi-Bassi ckt-1 & 2 also tripped reportedly on phase to earth fault at 07:41hrs & 07:55hrs respectively. It resulted into critical situation in the Northern Region.		1000	GI-II
4	WR	1) 220 kV Bina-Bina-I/C -I(M.P) 2) 220 kV Bina-Bina-I/C -II(M.P) 3) 220 kV Bina- Shivpuri 4) 220 kV Bina- Guna-I 5) 220 kV Bina- Guna-I 6) 220 kV Bina- Guna-I/C -II & III	MP	15.01.2016	15:33	15.01.2016	17:40	2:07	220 kV Bus Fault occurred at 400 KV S/S Bina(M.P) due to which elements given in column C tripped.		400	GD-I
5	NR	1) 765kV Anta-Phagi-I 2) 400kV Bhilwara-Chabra 3) 400kV Chabra-Hindaun-II 4) 400 kV Chabra-Kawai 5) Kawai, Kalisindh & Chabra Generating units	Rajasthan/A dani/PG	16.01.2016	1:30	16.01.2016	16:01	14:31	765kV Anta-Phagi-I, 400kV Bhilwara-Chabra, 400kV Chabra-Hindaun-II and 400 kV Chabra-Kawai tripped on distance protection due to Ground Fault. This led to loss of evacuation for all the generating units of Chabra, Kalisindh and Kawai.	2100	600	GD-I
6	SR	1) 400 kV GUTTUR - HIRIYUR-I & II 2) 400 kV KAIGA - GUTTUR-II 3) 400 kV GUTTUR - NARENDRA-I & II 4) 400 kV MUNIRABAD - GUTTUR 5) 400/220 kV ICT-1 & 2 - GUTTUR	Karnataka	17.01.2016	18:53	17.01.2016	20:26	1:33	Due to Bus bar protection operation at 400 kV guttur station the elements given in column c tripped.			GI-II