



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: 1<sup>st</sup> April 2016

To,

1. महाप्रबंधक, पू. क्षे. भा. प्रे. के., 14, गोल्फ क्लब रोड , कोलकाता - 700033  
General Manager, 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. 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., डोंगतिह, लोअर नॉग्रह , लापलंग, शिलोंग - 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 21<sup>st</sup> March to 27<sup>th</sup> March 2016.

महोदय/Dear Sir,

आईईजीसी-2010 की धारा स.- 5.5.1 के प्रावधान के अनुसार, 21 मार्च से 27 मार्च 2016, सप्ताह की अखिल भारतीय प्रणाली की ग्रिड निष्पादन रिपोर्ट राभाप्रेके 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 21<sup>st</sup> March to 27<sup>th</sup> March 2016, is available at the NLDC website, at the following link.

<http://www.nldc.in/attachments/article/267/Weekly%20210316%20to%20270316.pdf>

Thanking You.

Yours faithfully,

DGM (SO)

पॉवर सिस्टम ऑपरेशन कारपोरेशन लिमिटेड

राष्ट्रीय भार प्रेषण केंद्र, नई दिल्ली

साप्ताहिक रिपोर्ट (21 मार्च से 27 मार्च - 2016 तक)

रिपोर्टिंग तिथि:- 1-Apr-16

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

1. अधिकतम मांग आपूर्ति और आधिकतम कमी (मे०वा०)

क्षेत्र	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)
21-03-2016	33318	1711	41003	165	37282	700	18057	279	2155	100	131815	2955
22-03-2016	34264	433	42724	160	37404	1004	17631	437	2158	129	134182	2163
23-03-2016	33864	464	39359	136	37218	500	16666		2145	113	129252	1213
24-03-2016	31300	477	34026	96	36593	400	16658		2247	78	120824	1051
25-03-2016	34132	1888	40628	145	36593	400	17113	302	2235	103	130701	2838
26-03-2016	34161	1702	41959	182	36601	800	16786	641	2287	156	131794	3481
27-03-2016	32740	662	39092	106	35018	500	17605		2270	129	126725	1397

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)
21-03-2016	796	135	1023	25	908	71	366	21	35	4	3128	255
22-03-2016	782	122	1034	26	930	71	365	24	36	4	3147	247
23-03-2016	812	125	1015	22	923	67	349	22	39	4	3138	240
24-03-2016	743	121	886	14	920	62	351	18	37	4	2938	219
25-03-2016	765	132	960	17	920	62	359	19	39	4	3042	233
26-03-2016	784	129	1021	23	917	61	362	22	40	4	3124	238
27-03-2016	776	125	979	19	879	53	365	21	40	4	3039	221

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
21-03-2016	10.21	11.53	68.69	19.78	49.99	0.058
22-03-2016	13.68	14.25	69.46	16.30	49.98	0.054
23-03-2016	6.47	6.79	68.58	24.63	50.01	0.049
24-03-2016	0.56	0.56	64.63	34.81	50.03	0.040
25-03-2016	8.51	8.58	68.62	22.80	50.00	0.044
26-03-2016	10.41	11.37	74.27	14.36	49.98	0.049
27-03-2016	12.29	13.23	73.30	13.47	49.97	0.056

\*NEW & SR grid running in synchronisation.

4. NEW ELEMENTS COMMISSIONED

1.400 kV Gr. Noida-Sikandrabad I & II first time charged on 21.03.16 at 1600 hrs and 1621 hrs respectively
2. 400 kV Sikandrabad Bus I & II first time taken into service on 21.03.16 at 1721 hrs and 1731 hrs respectively
3. Bokaro Unit 1 (500 MW) first time synchronized on 22.03.16 at 0024 hrs
4. 765 kV bus reactor at Champa first time charged on 24.03.16 at 1206 hrs
5. 765/400 kV ICT-II at Champa first time charged on 24.03.16 at 1445 hrs

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

Region	Date	21-03-2016		22-03-2016		23-03-2016		24-03-2016		25-03-2016		26-03-2016		27-03-2016	
	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	3991	0	4259	0	3972	0	3696	0	4169	0	4354	0	4310	0
	Haryana	5927	0	5773	0	5776	0	5090	0	5603	0	5620	0	5516	0
	Rajasthan	8892	0	8566	0	8164	0	7534	0	7523	0	7592	0	7675	0
	Delhi	3246	0	3188	3	3226	0	2388	0	2944	0	3028	0	2946	75
	UP	12144	660	12015	1070	13964	0	13594	0	11530	0	11975	80	11276	125
	Uttarakhand	1660	0	1608	0	1472	0	1141	0	1518	0	1621	0	1501	0
	HP	1400	0	1342	0	1295	0	932	0	1090	0	1208	16	1157	0
	J&K	1959	490	2073	518	2081	520	2020	505	4156	1039	2085	521	2177	544
Chandigarh	177	0	176	0	176	0	154	0	175	0	177	0	159	0	
WR	Chhattisgarh	3656	96	3493	96	3166	96	3195	0	3497	96	3563	96	3240	0
	Gujarat	13781	29	13669	0	12741	0	11346	4	12756	9	13344	9	12884	0
	MP	7893	0	7955	0	7553	0	7441	0	7705	0	7729	0	7447	0
	Maharashtra	19678	0	19866	0	19827	0	17500	0	18468	0	19591	0	18472	0
	Goa	459	0	466	0	448	0	378	0	443	0	453	0	431	0
	DD	311	0	312	0	305	0	264	0	271	0	307	0	301	0
	DNH	725	0	738	0	705	0	665	0	645	0	709	0	705	0
	Essar steel	551	0	619	0	570	0	564	0	506	0	557	0	624	0
SR	Andhra Pradesh	7269	0	7391	0	7236	0	7225	0	7225	0	7077	0	6895	0
	Telangana	6585	0	6590	0	6527	0	6501	0	6501	0	6559	0	6247	22
	Karnataka	9284	400	9223	900	9246	800	9239	400	9239	400	9343	871	8877	507
	Kerala	3819	125	3764	0	3770	0	3657	0	3657	0	3712	30	3712	30
	Tamil Nadu	14280	0	14456	0	14428	0	14245	0	14245	0	14059	0	13027	30
	Pondy	338	0	333	0	333	0	299	0	299	0	321	0	298	0
ER	Bihar	3260	50	3200	50	3200	0	3155	0	3260	300	3117	300	3265	0
	DVC	2948	0	2717	100	2316	0	2472	0	2562	0	2587	0	2269	0
	Jharkhand	1058	0	1035	0	1157	0	1093	0	981	0	987	0	923	0
	Odisha	4075	0	4249	0	4041	0	3938	0	4189	0	4005	0	3864	0
	West Bengal	7435	59	7174	29	6215	0	6534	0	6368	0	6593	0	6442	0
	Sikkim	106	0	114	0	121	0	75	0	59	0	101	0	94	0
NER	Arunachal Pradesh	107	1	99	1	102	1	111	0	110	1	102	0	100	1
	Assam	1310	45	1330	32	1284	17	1222	46	1340	31	1288	100	1277	91
	Manipur	146	2	139	1	141	2	146	1	136	1	145	0	137	1
	Meghalaya	268	0	270	0	273	0	269	0	289	0	291	0	270	0
	Mizoram	75	1	79	1	80	1	83	1	81	1	81	1	71	1
	Nagaland	108	2	113	2	112	1	115	0	102	2	106	0	105	1
	Tripura	188	2	218	2	236	6	331	0	242	2	344	1	343	1

## 6. Energy Consumption in States (MUs)

Region	States	21-03-2016	22-03-2016	23-03-2016	24-03-2016	25-03-2016	26-03-2016	27-03-2016
NR	Punjab	84.0	86.7	87.3	79.4	87.4	96.1	98.4
	Haryana	106.0	104.6	104.6	90.2	96.2	101.7	100.9
	Rajasthan	192.4	187.1	179.4	159.4	168.0	171.6	170.3
	Delhi	62.8	61.1	59.1	47.9	57.2	60.0	58.6
	UP	250.1	242.1	283.9	283.8	255.7	257.2	249.3
	Uttarakhand	31.7	32.5	30.0	22.1	26.9	32.1	31.0
	HP	25.2	24.2	23.4	17.0	19.7	22.9	20.6
	J&K	40.7	40.3	40.9	40.4	50.4	38.7	44.0
Chandigarh	3.3	3.2	3.3	2.8	3.2	3.3	2.9	
WR	Chhattisgarh	85.8	84.2	90.0	74.3	77.7	83.4	76.1
	Gujarat	301.0	302.1	283.5	231.7	273.0	295.8	289.2
	MP	174.3	172.1	163.7	161.4	168.0	170.9	159.1
	Maharashtra	417.4	428.8	434.1	384.5	403.8	426.4	410.5
	Goa	9.3	9.9	9.3	8.3	9.0	9.4	8.8
	DD	6.8	7.0	6.8	3.7	5.1	6.8	6.7
	DNH	16.6	16.8	16.1	10.9	12.7	16.0	16.3
	Essar steel	11.9	13.0	11.2	11.7	10.5	12.1	11.9
SR	Andhra Pradesh	158.8	161.0	162.1	160.6	160.6	156.6	150.6
	Telangana	148.0	149.2	146.2	146.7	146.7	149.8	143.2
	Karnataka	206.0	209.8	210.4	209.5	209.5	210.7	199.9
	Kerala	76.0	76.6	75.5	75.1	75.1	73.2	73.2
	Tamil Nadu	312.4	325.8	321.2	321.6	321.6	319.3	304.8
	Pondy	7.0	7.2	7.2	6.1	6.1	7.2	7.5
ER	Bihar	60.9	58.8	62.0	63.0	64.2	67.0	67.7
	DVC	61.9	63.6	54.6	56.2	59.3	61.5	60.8
	Jharkhand	22.0	20.7	23.9	22.8	21.5	22.0	22.2
	Odisha	79.1	80.5	80.7	77.9	78.9	74.5	79.4
	West Bengal	140.5	139.9	126.8	130.1	133.2	135.7	133.4
	Sikkim	1.3	1.3	1.4	1.3	1.6	1.6	1.5
NER	Arunachal Pradesh	2.0	2.0	2.0	2.1	2.0	2.0	2.0
	Assam	19.2	20.5	22.1	20.5	21.7	22.8	23.3
	Manipur	2.2	2.1	2.1	2.1	2.2	2.2	2.2
	Meghalaya	4.6	4.1	3.8	4.1	4.6	4.7	4.2
	Mizoram	1.3	1.2	1.3	1.3	1.3	1.3	1.3
	Nagaland	1.7	2.0	2.1	2.0	2.1	1.9	1.8
	Tripura	4.2	4.4	5.2	5.2	5.0	5.5	5.7
<b>ALL INDIA TOTAL</b>		<b>3128.4</b>	<b>3146.5</b>	<b>3137.3</b>	<b>2937.7</b>	<b>3041.7</b>	<b>3123.8</b>	<b>3039.2</b>

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

साप्ताहिक रिपोर्ट (21 मार्च से 27 मार्च - 2016 तक) [2]  
(आई० ई० जी० सी० की धारा संख्या-5.5.1 के अंतर्गत)

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

दिनांक	21-03-2016	22-03-2016	23-03-2016	24-03-2016	25-03-2016	26-03-2016	27-03-2016
East to North	-8.9	-10.8	-22.8	-20.1	-17.8	-18.8	-20.8
East to West	2.4	1.6	0.0	1.7	-1.0	-8.0	-3.0
East to South	-57.0	-54.3	-56.0	-55.8	-58.0	-55.0	-57.0
East to North-East	-15.1	-20.9	-18.0	-16.8	-17.0	-20.0	-21.0
North to North-East	11.6	10.2	11.6	11.6	11.6	11.6	11.7
West to North	-86.3	-74.1	-82.6	-67.0	-70.9	-86.5	-96.0
West to South	-75.5	-82.3	-75.8	-78.9	-73.4	-68.2	-71.1

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

**साप्ताहिक रिपोर्ट (21 मार्च से 27 मार्च - 2016 तक) [2]**

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 (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)
21-03-2016	0.7	28	-6.4	-307	-265	-11.0	-468	-459
22-03-2016	1.1	46	-6.6	-309	-274	-11.1	-464	-463
23-03-2016	1.5	62	-6.0	-28	-249	-11.3	-469	-469
24-03-2016	2.2	93	-6.0	-31	-249	-11.3	-472	-472
25-03-2016	1.7	70	-6.3	-294	-261	-11.2	-475	-467
26-03-2016	2.7	113	-7.0	-310	-290	-11.4	-475	-473
27-03-2016	3.0	125	-6.6	-325	-275	-11.0	-475	-458
<b>कुल Total</b>	<b>12.9</b>		<b>-44.7</b>			<b>-78.3</b>		

### 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
				Date	Time	Date	Time					
1	ER/SR	1) Talcher-Kolar Pole-I 2) Sterlite Unit-I	PG/ Sterlite	22.03.2016	07:35	22.03.2016	09:07	01:32	HVDC Talcher-Kolar Pole-1 tripped due to emergency trip due to fire alarm at Talcher end. Powerflow reduced from 2000 MW to 1000 MW. SPS 1000 operated causing a backing of 70 MW in GMR and a unit 1 at Sterlite generating 371 MW tripped. S1-500 SPS signal received at Kolar.	440	1029	GD-I
2	SR	1) 400kV Kolar-Hoody-D/c 2) 400kV Hoody-Nelamangala-D/c 3) 400/220 KV ICT-I,II & III at Hoody	KPTCL	26.03.2016	12:42	26.03.2016	13:21	00:39	All 400kV elements connected to 400kv Hoody tripped during the incident. As reported fault had occurred in 400kv Kolar-Hoody line-2 near to Hoody end due to fire in premises outside station. 3 faults were observed from PMU data i.e. 1st fault was in R-phase and fault cleared in 350ms (zone-2 time). The 2nd fault was in B-phase to earth and the 3rd fault was a 3 phase to earth.400kv ICT-1&2 at Hoody are grid connected and 400/220kv ICT-3 at Hoody is radial in nature. It is suspected that ICT-2 tripped on backup protection on the 3rd fault. ICT-1 and ICT-3 at Hoody station were hand tripped after tripping of 400kv lines and ICT-2. After tripping of all lines and ICT-2 connecting 400kv Hoody SS, several 220kv lines which are carrying power towards 220kv Hoody SS got tripped on overload.during the incident of tripping of 400kv Kolar-Hoody-1&2, commutation failures were observed for five times in Kolar HVDC pole-1 and four times in HVDC Kolar pole-2.		1400	GD-I
3	NR	1) 220 kv Mandaula-Wazirabad-I,III & IV	DTL	26.03.2016	15:54	26.03.2016	19:56	04:02	220kv Mandaula-Wazirabad ckt 3&4 tripped and subsequently on distance protection due to B-N fault, ckt-1 also tripped on overload. (ckt-2 under S/D) causing a load loss of around 300MW in Delhi (as observed from SCADA). and left wazirabad s/s dark. Later, Wazirabad charged via Gopalpur and the load normalized after 5 to 10 mins as reported.		300	GD-I