



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

(A Govt. of India Enterprise)

CIN No.: U40105DL2009GOI188682

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

Ref: POSOCO/NLDC/SO/Weekly Report

Date: 8<sup>th</sup> September 2017

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. महाप्रबंधक, द. क्षे. भा. प्रे. के., 29, रेस कोर्स क्रॉस रोड, बंगलुरु - 560009  
General Manager, SRLDC, 29, Race Course Cross Road, Bangalore-560009

Sub: Weekly Status Report 28<sup>th</sup> August to 3<sup>rd</sup> September 2017.

महोदय/Dear Sir,

आईईजीसी-2010 की धारा स.- 5.5.1 के प्रावधान के अनुसार, 28 अगस्त से 3 सितंबर 2017, सप्ताह की अखिल भारतीय प्रणाली की ग्रिड निष्पादन रिपोर्ट राभाप्रेके की वेबसाइट 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 28<sup>th</sup> August to 3<sup>rd</sup> September 2017, is available at the NLDC website.

Thanking you,

Yours faithfully,

DGM (SO)

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

साप्ताहिक रिपोर्ट (28 अगस्त से 03 सितम्बर 2017 तक)  
(आई० ई० जी० सी० की धारा संख्या-5.5.1 के अंतर्गत)

रिपोर्टिंग तिथि:- 8-Sep-17

1. अधिकतम मांग आपूर्ति और अधिकतम कमी (मे०वा०)

क्षेत्र	उत्तरी क्षेत्र		पश्चिमी क्षेत्र		दक्षिणी क्षेत्र		पूर्वी क्षेत्र		पूर्वोत्तर क्षेत्र		कुल	
	अधिकतम मांग आपूर्ति	अधिकतम कमी	अधिकतम मांग आपूर्ति	अधिकतम कमी	अधिकतम मांग आपूर्ति	अधिकतम कमी	अधिकतम मांग आपूर्ति	अधिकतम कमी	अधिकतम मांग आपूर्ति	अधिकतम कमी	अधिकतम मांग आपूर्ति	अधिकतम कमी
	(मे०वा०)	(मे०वा०)	(मे०वा०)	(मे०वा०)	(मे०वा०)	(मे०वा०)	(मे०वा०)	(मे०वा०)	(मे०वा०)	(मे०वा०)	(मे०वा०)	(मे०वा०)
28-08-2017	51237	1453	41299		36322		19115	600	2526	130	150498	2183
29-08-2017	49500	1749	38070		36947		19638	150	2571	121	146726	2020
30-08-2017	50116	1776	39572	10	37663		19992		2596	133	149938	1919
31-08-2017	46888	1810	40919	32	37806		19626	400	2552	173	147791	2414
01-09-2017	45161	859	41047	402	36729	235	17939		2530	151	143405	1647
02-09-2017	45510	916	41037	652	36059		18331	206	2477	149	143413	1923
03-09-2017	45305	810	40446	24	33924		18746	468	2344	154	140766	1456

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)
28-08-2017	1139	320	928	24	784	37	385	94	45	24	3281	500
29-08-2017	1128	322	879	26	786	44	394	98	48	23	3235	514
30-08-2017	1118	330	870	25	825	54	405	109	49	22	3266	539
31-08-2017	1084	328	899	27	852	59	405	97	48	22	3288	533
01-09-2017	978	322	912	24	868	68	381	106	47	23	3187	542
02-09-2017	964	318	924	25	856	63	370	108	47	23	3160	537
03-09-2017	972	317	919	15	804	51	373	106	44	25	3112	513

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
28-08-2017	2.37	2.37	74.59	23.03	50.01	0.027
29-08-2017	1.97	1.97	71.16	26.88	50.02	0.031
30-08-2017	5.54	5.54	81.81	12.65	49.99	0.028
31-08-2017	2.37	2.37	79.85	17.78	50.00	0.025
01-09-2017	8.10	8.33	74.35	17.31	50.00	0.039
02-09-2017	5.32	5.95	83.85	10.20	49.99	0.032
03-09-2017	6.50	6.90	85.80	7.30	49.98	0.031

\*NEW & SR grid running in synchronisation.

4. NEW ELEMENTS COMMISSIONED

1. B/R at HVDC Gazuwaka (East Bus) first time charged on 28.08.17 at 1657 hrs.
2. 400 kV Ranchi-Raghuathpur II & III first time charged on 28.08.17 at 1957 hrs & 1940 hrs.
3. 765 kV Maheswaram ICT-II first time charged on 03.09.17 at 1129 hrs.

## 6. Energy Consumption in States (MUs)

Region	States	28-08-2017	29-08-2017	30-08-2017	31-08-2017	01-09-2017	02-09-2017	03-09-2017
NR	Punjab	211.5	194.7	181.5	180.2	147.1	134.1	141.0
	Haryana	175.3	172.9	171.4	162.3	141.8	121.0	125.4
	Rajasthan	196.4	193.0	185.1	178.8	168.4	176.2	176.4
	Delhi	106.0	112.2	110.5	104.1	98.7	90.2	89.5
	UP	340.0	343.0	357.8	348.7	321.1	340.8	340.4
	Uttarakhand	36.7	39.1	40.6	38.8	34.6	35.4	33.0
	HP	26.0	24.8	25.5	25.8	23.5	22.1	21.8
	J&K	42.1	43.3	40.1	40.3	38.3	40.1	40.1
	Chandigarh	4.9	5.5	5.6	5.5	4.9	4.6	4.5
WR	Chhattisgarh	80.7	78.4	80.8	84.9	84.9	87.2	89.0
	Gujarat	274.1	255.2	238.9	240.5	247.5	244.9	243.4
	MP	156.2	153.2	157.4	162.0	166.8	169.4	167.3
	Maharashtra	383.7	357.7	357.2	376.9	380.0	388.4	385.7
	Goa	7.5	8.8	9.5	9.0	9.0	8.3	8.3
	DD	6.9	6.5	6.9	6.9	6.7	6.7	6.3
	DNH	16.6	16.4	16.7	16.8	16.4	16.8	16.6
	Essar steel	2.1	2.3	2.2	1.9	1.3	1.8	2.0
SR	Andhra Pradesh	138.2	137.5	150.3	153.4	154.4	155.0	149.8
	Telangana	150.4	145.5	156.5	173.6	186.2	188.2	181.5
	Karnataka	150.4	148.3	154.9	164.3	170.4	168.6	158.0
	Kerala	63.6	63.2	65.4	67.8	65.3	65.3	60.6
	Tamil Nadu	274.0	284.6	291.9	285.7	284.2	271.6	247.1
	Pondy	7.0	7.0	6.4	7.2	7.1	7.2	6.6
ER	Bihar	77.5	79.8	83.1	81.3	73.5	77.9	77.7
	DVC	64.7	65.0	66.3	67.7	61.3	63.9	63.6
	Jharkhand	23.5	23.8	25.4	25.1	24.0	24.5	24.3
	Odisha	76.5	83.8	76.9	76.6	71.7	70.1	71.3
	West Bengal	141.3	140.7	152.3	153.2	149.4	132.1	135.0
	Sikkim	1.2	1.0	1.1	0.9	1.1	1.0	0.9
NER	Arunachal Pradesh	2.0	2.1	2.2	2.4	2.2	2.1	2.0
	Assam	29.0	31.6	31.8	31.5	30.2	29.9	28.6
	Manipur	2.2	2.3	2.1	2.2	2.3	2.6	2.1
	Meghalaya	4.6	4.2	4.9	4.4	5.0	4.4	4.7
	Mizoram	1.2	1.2	0.9	1.3	1.5	1.3	1.2
	Nagaland	2.1	1.9	2.0	1.9	1.9	2.2	2.2
	Tripura	4.3	4.3	4.6	4.3	4.0	4.1	3.6
<b>ALL INDIA TOTAL</b>		<b>3280.5</b>	<b>3234.9</b>	<b>3266.8</b>	<b>3288.0</b>	<b>3186.4</b>	<b>3159.9</b>	<b>3111.3</b>

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

Region	Date	28-08-2017		29-08-2017		30-08-2017		31-08-2017		01-09-2017		02-09-2017		03-09-2017	
	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	9351	0	8988	0	8210	0	8373	0	6797	0	6432	0	6760	0
	Haryana	8064	0	8168	0	8112	0	7472	0	7062	0	6786	0	6699	34
	Rajasthan	9364	0	9205	0	8478	0	8315	0	8070	0	8073	0	8274	0
	Delhi	5009	0	5258	0	5217	0	4923	0	4719	0	4264	0	4617	0
	UP	16825	685	16806	790	16494	150	15497	1075	15935	0	16695	260	16821	0
	Uttarakhand	1817	0	1835	0	1903	0	1808	0	1615	0	1723	0	1608	0
	HP	1266	0	1261	0	1296	0	1311	0	1216	0	1144	65	1113	0
	J&K	2081	520	2113	528	2001	500	2051	513	2128	532	1942	485	1856	464
	Chandigarh	250	0	264	0	278	0	298	0	238	0	229	0	225	0
WR	Chhattisgarh	3468	0	3509	0	3644	0	3706	0	3636	24	3824	28	3760	24
	Gujarat	12416	0	11839	0	10650	0	10696	0	11150	0	11016	0	10713	0
	MP	7273	0	7110	0	7391	0	7771	0	7617	0	7813	0	7614	0
	Maharashtra	17500	0	16710	0	16832	0	17111	0	17394	0	17623	0	17078	0
	Goa	403	0	427	0	428	0	436	0	436	0	388	0	388	0
	DD	327	0	302	0	309	0	304	0	296	0	297	0	268	0
	DNH	737	0	733	0	733	0	728	0	712	0	733	0	720	0
	Essar steel	154	0	134	0	160	0	144	0	95	0	117	0	99	0
SR	Andhra Pradesh	6482	0	6537	0	7002	0	7197	0	7223	0	7050	0	6853	0
	Telangana	7203	0	7013	0	7470	0	8166	0	8774	0	9071	0	8768	0
	Karnataka	7501	0	7173	0	7736	0	8069	0	8019	0	8021	0	7360	0
	Kerala	3244	0	3242	0	3398	0	3501	0	3249	0	3252	0	3038	0
	Tamil Nadu	13047	0	13718	0	13975	0	13404	0	12748	0	12118	0	11300	0
	Pondy	339	0	308	0	342	0	348	0	335	0	343	0	308	0
ER	Bihar	4070	0	4192	0	4170	0	4234	150	4152	0	4083	0	4218	0
	DVC	2798	0	2860	0	2874	0	2849	100	2764	0	2798	0	2898	0
	Jharkhand	1140	0	1210	0	1178	0	1180	0	1150	0	1114	0	1202	0
	Odisha	4084	100	4369	0	4108	0	4159	150	3500	0	4167	0	4008	0
	West Bengal	7885	0	7655	0	8182	0	8023	0	7360	0	7105	0	7518	0
	Sikkim	89	0	86	0	87	0	87	0	88	0	82	0	72	0
NER	Arunachal Pradesh	110	2	113	3	113	7	114	4	119	1	111	1	112	2
	Assam	1623	97	1667	72	1661	99	1635	128	1605	108	1549	130	1519	99
	Manipur	136	2	141	2	144	7	143	6	145	3	130	1	142	2
	Meghalaya	263	0	268	0	279	0	288	0	282	0	280	0	246	0
	Mizoram	69	2	71	1	62	3	51	9	58	2	70	0	72	1
	Nagaland	103	1	96	5	98	4	104	4	107	1	107	0	107	0
	Tripura	243	4	249	4	249	4	237	1	250	0	244	3	192	5

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

साप्ताहिक रिपोर्ट (28 अगस्त से 03 सितम्बर 2017 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	28-08-2017	29-08-2017	30-08-2017	31-08-2017	01-09-2017	02-09-2017	03-09-2017
East to North	-58.4	-57.7	-57.0	-50.0	-47.0	-52.3	-52.2
East to West	28.8	34.6	28.1	30.4	33.3	32.2	33.3
East to South	-46.1	-50.6	-55.7	-50.1	-70.1	-77.4	-73.1
East to North-East	-17.8	-16.8	-16.9	-19.8	-19.6	-19.7	-17.8
North-East to North	-10.0	-6.5	-7.2	-8.1	-9.1	-10.7	-10.3
West to North	-138.9	-122.8	-123.9	-132.8	-91.2	-82.7	-91.7
West to South	-25.9	-29.0	-33.7	-49.1	-57.1	-54.9	-48.6

भूटान , नेपाल एव बांग्लादेश के साथ अंतरराष्ट्रीय विद्युत विनिमय INTERNATIONAL EXCHANGE WITH BHUTAN, NEPAL AND BANGLADESH								
साप्ताहिक रिपोर्ट (28 अगस्त से 03 सितम्बर 2017 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 (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)
28-08-2017	37.0	1542	-4.8	-269	-200	-15.2	-664	-633
29-08-2017	37.0	1542	-5.0	-306	-208	-15.2	-661	-633
30-08-2017	36.9	1538	-5.4	-318	-224	-13.1	-652	-546
03-07-2017	37.8	1575	-6.3	-339	-263	-15.0	-647	-625
01-09-2017	36.3	1512	-5.9	-345	-247	-14.2	-627	-591
02-09-2017	36.3	1510	-4.5	-265	-186	-14.4	-640	-600
03-09-2017	37.6	1569	-5.0	-277	-210	-14.8	-651	-618
कुल Total	258.9		-36.9			-101.9		

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

S.No.	Region	Name of Elements (Tripped/Manually opened)	Owner / Agency	Outage		Revival		Outage Duration	Event (As reported)	Generation Loss(MW)	Load Loss(MW)	Category as per CEA Grid Standards	
				Date	Time	Date	Time	Time					
1	ER	1) 220 kv BUS –I at CTPS B 2) 220 KV CTPS B-CTPS A-I 3) 220 KV CTPS B- Dhanbad-II 4)220 KV CTPS B-BokaroB-I 5) CTPS B unit 7 and unit 8.	DVC	28.08.2017	13:25	28.08.2017	14:35	1:10	At 13:25 hrs. R Phase CT (GT of CTPS B U#8) burst, following elements and unit tripped At 15:15 hrs,132 kv Bokaro-Barhi and 132 kv Bokaro-Konar were also hand tripped to reduce loading on 315 MVA ICT at Bokaro A. Loading of Konar, Barhi were put on alternate source (On Koderma)	406	0	GD1	
2	ER	1) 132 KV Siliguri-kurseong 2) 132 KV Siliguri Melli 3) 132 kv Rangit-Rangpo 4) Rangit (3 x 20 MW) 5)132 KV Rangit-Kurseong 6)132 KV Rangit-Sagbadi	NHPC/PGCIL	30.08.2017	05:15	30.08.2017	05:54	0:39	At 5:15 hrs. 132 KV Siliguri-kurseong,132 KV Siliguri Melli tripped on R_B_N fault.132 KV Rangit-Rangpo also tripped. As a result, all running units of Rangit(3 x 20 MW) tripped on overfrequency and subsequently,132 KV Rangit-Kurseong and 132 KV Rangit-Sagbadi were hand tripped.As kurseong,sagbadi were isolated,kurseong had a load loss of 1.5 MW and Sagbari had 1 MW load loss .	60	2.5	GD1	
3	ER	1) 132 KV Siliguri-kurseong 2) 132 KV Siliguri Melli 3) 132 kv Rangit-Rangpo 4) Rangit (3 x 20 MW) 5)132 KV Rangit-Kurseong 6)132 KV Rangit-Sagbadi	NHPC/PGCIL	31.08.2017	00:38	31.08.2017	01:56	1:18	At 00:38hrs, 132 KV Siliguri-kurseong, 132 KV Siliguri Melli tripped on Y_N fault and 132 KV Rangit-Rangpo also tripped. As a result, all running units of Rangit(3x20MW) tripped on over frequency and subsequently, 132 KV Rangit-Kurseong and 132 KV Rangit-Sagbari were hand tripped. As Kurseong, Sagbari were isolated, Kurseong had a load loss of 2.5 MW and Sagbari had 1 MW load loss .	60	3.5	GD1	
4	NER	1)132 kv Aizawl – Kumarghat Aizawl – Lungmual kv Aizawl – Melriat	2)132 kv 3)132	PG	31.08.2017	13:35	31.08.2017	13:58	0:23	At 13:35 Hrs 132 kv Aizawl – Kumarghat line got tripped , (Aizawl – Z III, R-ph : Kumarghat – Zero seq, Power Trip) along with following lines in Mizoram System and resulted in load loss of 44MW.	0	44	GD1
5	NR	1) 220 kv Bus -2 at Gurgaon	HVPNL	1.09.2017	17:13	1.09.2017	17:56	00:43	At 17:13 Hrs,220 kv Bus-2 at Gurgaon tripped on Bus fault which caused load loss of 300 MW .	0	300	GD1	

S.No.	Region	Name of Elements (Tripped/Manually opened)	Owner / Agency	Outage		Revival		Outage Duration	Event (As reported)	Generation Loss(MW)	Load Loss(MW)	Category as per CEA Grid Standards
				Date	Time	Date	Time	Time				
6	WR	1) 400/220kV Raigarh PG ICT – 2 2)400/220kV Raigarh PG ICT – 1 3) 220KV RAIGARH – PGCIL RAIGARH CKT. I&II 4)220KV RAIGARH-BUDHIPADAR 5) 220KV S/S RAGARH 6) 220KV S/S SARAIPLAI 7)220KV S/S GERWANI 8)160MVA TRANSFORMER –I /II/III AT 220KV RAIGARH 9)160MVA TRANSFORMER –I /II AT 220KV SARAIPALI 10)160MVA TRANSFORMER –I AT 220KV GERWANI 11)132KV S/S RAIGARH 12)132KV S/S BARAMKELA 13)132KV S/S SARANGARH 14)132KV S/S CHAPLE 15)132KV S/S JAIJAIIPUR 16)132KV S/S ADBHAR 17)132KV S/S GHARGHODA 18)132KV S/S SANKARA	PG/CSPTCL	3.09.2017	16:15	3.09.2017	17:13	00:58	At 16:15 hrs,Raigarh PG 400/220kV ICT – 1 & 2 both tripped.leading to no power flow in 220KV Raigarh – Raigarh(CSEB) D/C lines. Due to the tripping of 400/220 kV, 315 MVA ICT I&II at PGCIL S/S Raigarh at 16:15 Hrs. on 03.09.2017, line loading of 220kv Raigarh – Budhipadar increased substantially which later tripped on overload at 16:45 hrs. Also power flow in 220kv Raigarh – Saraipalli D/C , 220kv Raigarh – JPL -2 , 220/132 KV ICT-1, ICT-2 & ICT-3 at 220 KV Raigarh(CSEB) became zero. Total load loss of about 397 MW occurred.	0	397	GD1