



National Load Despatch Centre  
राष्ट्रीय भार प्रेषण केंद्र  
POWER SYSTEM OPERATION CORPORATION LIMITED  
पावर सिस्टम ऑपरेशन कारपोरेशन लिमिटेड  
(Government of India Enterprise/ भारत सरकार का उद्यम)  
B-9, QUTUB INSTITUTIONAL AREA, KATWARIA SARAI, NEW DELHI -110016  
बी-9, कुतुब इन्स्टीट्यूशनल एरिया, कटवारिया सराये, न्यू दिल्ली-110016

Ref: POSOCO/NLDC/SO/Daily PSP Report

दिनांक: 28<sup>th</sup> Nov 2019

To,

1. कार्यकारी निदेशक, पू.क्षे.भा.प्रे.के., 14, गोल्फ क्लब रोड, कोलकाता - 700033  
Executive Director, ERLDC, 14 Golf Club Road, Tollygunge, Kolkata, 700033
2. कार्यकारी 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. कार्यकारी निदेशक, प.क्षे.भा.प्रे.के., एफ3-, एम आई डी सी क्षेत्र, अंधेरी, मुंबई -400093  
Executive Director, WRLDC, F-3, M.I.D.C. Area, Marol, Andheri (East), Mumbai-400093
4. कार्यकारी निदेशक, ऊ.पू.क्षे.भा.प्रे.के., डोंगतिह, लोअर नोंग्रह, लापलंग, शिलोंग - 793006  
Executive Director, NERLDC, Dongteih, Lower Nongrah, Lapalang, Shillong - 793006, Meghalaya
5. कार्यकारी निदेशक, द.क्षे.भा.प्रे.के., 29, रेस कोर्स क्रॉस रोड, बंगलुरु -560009  
Executive Director, SRLDC, 29, Race Course Cross Road, Bangalore-560009

**Sub: Daily PSP Report for the date 27.11.2019.**

महोदय/Dear Sir,

आईईजीसी-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 27-नवम्बर-2019 की अखिल भारतीय प्रणाली की दैनिक ग्रिड निष्पादन रिपोर्ट रांभांप्रेके की वेबसाइट पर उपलब्ध है।

As per article 5.5.1 of the Indian Electricity Grid Code, the daily report pertaining power supply position of All India Power System for the date 27<sup>th</sup> Nov 2019, is available at the NLDC website.

धन्यवाद,

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

Report for previous day

Date of Reporting 28-Nov-19

A. Power Supply Position at All India and Regional level

	NR	WR	SR	ER	NER	Total
Demand Met during Evening Peak hrs(MW) (at 1900 hrs; from RLDCs)	42224	48291	38299	17805	2373	148992
Peak Shortage (MW)	433	0	0	0	33	466
Energy Met (MU)	853	1146	888	343	41	3270
Hydro Gen (MU)	131	41	91	38	9	310
Wind Gen (MU)	13	72	53	-----	-----	138
Solar Gen (MU)*	24.61	19.3	71.59	1.81	0.00	117
Energy Shortage (MU)	9.5	0.0	0.0	0.0	0.4	9.9
Maximum Demand Met during the day (MW) & time (from NLDC SCADA)	42672 18:49	52661 10:55	40809 07:36	18550 18:13	2427 17:51	152665 18:22

B. Frequency Profile (%)

Region	FVI	<49.7	49.7-49.8	49.8-49.9	<49.9	49.9-50.05	> 50.05
All India	0.030	0.00	0.00	0.47	0.47	66.24	33.29

C. Power Supply Position in States

Region	States	Max. Demand Met during the day (MW)	Shortage during maximum Demand (MW)	Energy Met (MU)	Drawal Schedule (MU)	OD(+)/UD(-) (MU)	Max OD (MW)	Energy Shortage (MU)
NR	Punjab	5017	0	98.0	43.2	-1.5	45	0.0
	Haryana	5494	0	108.2	92.6	0.4	286	0.0
	Rajasthan	11474	0	218.6	64.3	0.2	464	0.0
	Delhi	3457	0	62.6	53.0	-0.9	219	0.1
	UP	14023	0	258.4	111.7	-0.2	818	0.1
	Uttarakhand	1792	0	34.6	22.6	0.4	144	0.0
	HP	1567	0	28.6	20.9	-0.2	125	0.0
	J&K	2043	511	40.1	34.5	-2.0	201	9.4
	Chandigarh	205	0	3.5	3.2	0.2	29	0.0
WR	Chhattisgarh	3381	0	71.5	20.8	-0.4	222	0.0
	Gujarat	15683	0	336.5	77.8	-1.7	626	0.0
	MP	13101	0	253.4	153.4	-2.3	419	0.0
	Maharashtra	21100	0	441.0	134.1	-1.6	428	0.0
	Goa	541	0	12.3	12.3	-0.6	40	0.0
	DD	328	0	7.4	6.8	0.6	48	0.0
	DNH	800	0	18.6	18.6	0.0	57	0.0
	Essar steel	288	0	5.6	5.3	0.3	295	0.0
	SR	Andhra Pradesh	8178	0	169.9	73.4	1.2	416
Telangana		8082	0	170.8	65.4	1.3	447	0.0
Karnataka		9843	0	185.8	39.3	1.6	715	0.0
Kerala		3687	0	73.5	51.5	1.9	223	0.0
Tamil Nadu		13341	0	280.3	167.4	0.8	731	0.0
Pondy		373	0	7.2	7.6	-0.3	30	0.0
ER		Bihar	4115	0	68.7	68.8	-1.1	80
	DVC	3040	0	61.3	-33.3	-0.3	270	0.0
	Jharkhand	1235	0	24.2	17.7	-1.6	31	0.0
	Odisha	3903	0	73.8	7.4	0.7	300	0.0
	West Bengal	6461	0	113.4	31.0	2.3	220	0.0
	Sikkim	100	0	1.6	1.5	0.2	22	0.0
NER	Arunachal Pradesh	118	2	2.0	2.0	-0.1	39	0.0
	Assam	1385	28	23.3	17.7	0.4	119	0.4
	Manipur	158	1	2.6	2.6	0.0	31	0.0
	Meghalaya	321	0	5.8	2.9	0.2	49	0.0
	Mizoram	98	2	1.8	0.6	0.8	13	0.0
	Nagaland	117	3	2.2	2.0	-0.1	22	0.0
	Tripura	254	8	3.6	1.9	-0.1	28	0.0

D. Transnational Exchanges (MU) - Import(+ve)/Export(-ve)

	Bhutan	Nepal	Bangladesh
Actual(MU)	8.5	-2.9	-12.0
Day peak (MW)	631.8	-289.0	-652.0

E. Import/export By Regions(in MU) - Import(+ve)/Export(-ve); OD(+)/UD(-)

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	200.1	-196.8	95.3	-97.7	-1.8	-0.9
Actual(MU)	189.3	-192.9	111.8	-116.4	-0.2	-8.5
O/D/U/D(MU)	-10.8	3.9	16.5	-18.8	1.6	-7.6

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	Total
Central Sector	5864	17716	6372	1740	584	32277
State Sector	13471	15481	10770	5670	11	45403
Total	19335	33197	17142	7410	596	77679

G. Sourcewise generation (MU)

	NR	WR	SR	ER	NER	All India
Coal	431	1119	421	431	46	2447
Lignite	22	12	36	0	0	70
Hydro	131	41	91	38	0	301
Nuclear	28	28	56	0	0	112
Gas, Naptha & Diesel	15	47	15	0	0	77
RES (Wind, Solar, Biomass & Others)	58	108	167	2	0	335
Total	685	1354	785	471	46	3341

Share of RES in total generation (%)	8.46	7.98	21.24	0.39	0.00	10.01
Share of Non-fossil fuel (Hydro, Nuclear and RES) in total generation (%)	31.74	13.03	39.91	8.46	0.00	22.36

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.029
Based on State Max Demands	1.081

Diversity factor = Sum of regional or state-wise maximum demands / All India maximum demand

\*Source: RLDCs for solar connected to ISTS; SLDCs for embedded solar. Limited visibility of embedded solar data.

INTER-REGIONAL EXCHANGES									
								Date of Reporting : 28-Nov-19	
								Import=(+ve) /Export =(-ve) for NET (MU)	
Sl No	Voltage Level	Line Details	Circuit	Max Import (MW)	Max Export (MW)	Import (MU)	Export (MU)	NET (MU)	
<b>Import/Export of ER (With NR)</b>									
1	765kV	GAYA-VARANASI	D/C	0	864	0.0	11.8	-11.8	
2		SASARAM-FATEHPUR	S/C	0	525	0.0	6.9	-6.9	
3		GAYA-BALIA	S/C	0	395	0.0	6.3	-6.3	
4	HVDC	ALIPURDUAR-AGRA	-	0	0	0.0	0.0	0.0	
5		PUSAULI B/B	S/C	0	196	0.0	4.8	-4.8	
6	400 kV	PUSAULI-VARANASI	S/C	0	138	0.0	2.5	-2.5	
7		PUSAULI -ALLAHABAD	S/C	0	141	0.0	2.1	-2.1	
8		MUZAFFARPUR-GORAKHPUR	D/C	0	1001	0.0	13.6	-13.6	
9		PATNA-BALIA	Q/C	0	886	0.0	16.7	-16.7	
10		BIHARSHARIFF-BALIA	D/C	0	371	0.0	5.3	-5.3	
11		MOTIHARI-GORAKHPUR	D/C	0	4	0.0	0.0	0.0	
12		BIHARSHARIFF-VARANASI	D/C	0	387	0.0	4.1	-4.1	
13	220 kV	PUSAULI-SAHUPURI	S/C	1	0	0.0	0.0	0.0	
14	132 kV	SONE NAGAR-RIHAND	S/C	0	0	0.0	0.0	0.0	
15		GARWAH-RIHAND	S/C	30	0	0.3	0.0	0.3	
16		KARMANASA-SAHUPURI	S/C	0	0	0.0	0.0	0.0	
17		KARMANASA-CHANDAULI	S/C	0	0	0.0	0.0	0.0	
						<b>ER-NR</b>	<b>0.3</b>	<b>74.0</b>	<b>-73.7</b>
<b>Import/Export of ER (With WR)</b>									
18	765 kV	JHARSUGUDA-DHARAMJAIGARH	Q/C	909	335	4.1	0.0	4.1	
19		NEW RANCHI-DHARAMJAIGARH	D/C	314	421	0.0	0.3	-0.3	
20		JHARSUGUDA-DURG	D/C	0	370	0.0	5.2	-5.2	
21	400 kV	JHARSUGUDA-RAIGARH	Q/C	160	276	0.0	0.9	-0.9	
22		RANCHI-SIPAT	D/C	115	130	0.3	0.0	0.3	
23	220 kV	BUDHIPADAR-RAIGARH	S/C	0	112	0.0	1.7	-1.7	
24		BUDHIPADAR-KORBA	D/C	96	22	1.0	0.0	1.0	
						<b>ER-WR</b>	<b>5.4</b>	<b>8.1</b>	<b>-2.7</b>
<b>Import/Export of ER (With SR)</b>									
25	765 kV	ANGUL-SRIKAKULAM	D/C	0.0	1842.0	0.0	34.6	-34.6	
26	HVDC	JEYPORE-GAZUWAKA B/B	D/C	0.0	687.0	0.0	10.5	-10.5	
27	LINK	TALCHER-KOLAR BIPOLE	D/C	0.0	2268.0	0.0	42.8	-42.8	
28	400 kV	TALCHER-I/C	D/C	62.0	896.0	0.0	9.3	-9.3	
29	220 kV	BALIMELA-UPPER-SILERRU	S/C	1.0	0.0	0.0	0.0	0.0	
						<b>ER-SR</b>	<b>0.0</b>	<b>88.0</b>	<b>-88.0</b>
<b>Import/Export of ER (With NER)</b>									
30	400 kV	BINAGURI-BONGAIGAON	D/C	274	111	4.3	0.0	4	
31		ALIPURDUAR-BONGAIGAON	D/C	293	110	4.5	0.0	4	
32	220 kV	ALIPURDUAR-SALAKATI	D/C	56	48	0.7	0.0	1	
						<b>ER-NER</b>	<b>9.4</b>	<b>0.0</b>	<b>9.4</b>
<b>Import/Export of NER (With NR)</b>									
33	HVDC	BISWANATH CHARIALI-AGRA	-	376	0	9.4	0.0	9.4	
						<b>NER-NR</b>	<b>9.4</b>	<b>0.0</b>	<b>9.4</b>
<b>Import/Export of WR (With NR)</b>									
34	HVDC	CHAMPA-KURUKSHETRA	D/C	0	855	0.0	21.0	-21.0	
35		V'CHAL B/B	D/C	230	0	6.1	0.0	6.1	
36		APL -MHG	D/C	0	2110	0.0	32.1	-32.1	
37	765 kV	GWALIOR-AGRA	D/C	0	2076	0.0	37.2	-37.2	
38		PHAGI-GWALIOR	D/C	0	1402	0.0	18.1	-18.1	
39		JABALPUR-ORAI	D/C	570	766	0.0	25.5	-25.5	
40		GWALIOR-ORAI	S/C	587	0	9.6	0.0	9.6	
41		SATNA-ORAI	S/C	0	1284	0.0	27.6	-27.6	
42		CHITTORGARH-BANASKANTHA	D/C	0	1043	0.0	7.0	-7.0	
43		ZERDA-KANKROLI	S/C	66	167	0.4	0.7	-0.3	
44	400 kV	ZERDA -BHINMAL	S/C	95	351	0.1	2.7	-2.6	
45		V'CHAL -RIHAND	S/C	982	0	22.2	0.0	22.2	
46		RAPP-SHUJALPUR	D/C	208	151	0	1	-1	
47	220 kV	BHANPURA-RANPUR	S/C	34	50	0.1	0.4	-0.3	
48		BHANPURA-MORAK	S/C	63	78	0.3	0.6	-0.3	
49		MEHGAON-AURAIYA	S/C	115	0	1.5	0.0	1.5	
50		MALANPUR-AURAIYA	S/C	61	18	0.4	0.0	0.4	
51	132kV	GWALIOR-SAWAI MADHOPUR	S/C	0	0	0.0	0.0	0.0	
						<b>WR-NR</b>	<b>40.8</b>	<b>173.3</b>	<b>-132.6</b>
<b>Import/Export of WR (With SR)</b>									
52	HVDC	BHADRAWATI B/B	-	0	880	0.0	14.5	-14.5	
53	LINK	BARSUR-L.SILERU	-	0	0	0.0	0.0	0.0	
54	765 kV	SOLAPUR-RAICHUR	D/C	105	2184	0.0	22.0	-22.0	
55		WARDHA-NIZAMABAD	D/C	965	2224	0.0	34.5	-34.5	
56	400 kV	KOLHAPUR-KUDGI	D/C	822	0	11.8	0.0	11.8	
57	220 kV	KOLHAPUR-CHIKODI	D/C	0	0	0.0	0.0	0.0	
58		PONDA-AMBEWADI	S/C	0	74	0.0	1.4	-1.4	
59		XELDEM-AMBEWADI	S/C	0	83	1.5	0.0	1.5	
						<b>WR-SR</b>	<b>13.3</b>	<b>72.4</b>	<b>-59.0</b>
<b>TRANSNATIONAL EXCHANGE</b>									
60		BHUTAN						8.5	
61		NEPAL						-2.9	
62		BANGLADESH						-12.0	