



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: 23<sup>rd</sup> Nov 2018

To,

- कार्यकारी निदेशक, पू.क्षे.भा.प्रे.के., 14, गोल्फ क्लब रोड, कोलकाता - 700033  
Executive Director, ERLDC, 14 Golf Club Road, Tolleygunge, Kolkata, 700033
- 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
- 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
- कार्यकारी निदेशक, ऊ.पू.क्षे.भा.प्रे.के., डोंगतिह, लोअर नोंग्रह, लापलंग, शिलोंग - 793006  
Executive Director, NERLDC, Dongteih, Lower Nongrah, Lapalang, Shillong - 793006, Meghalaya
- 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 22.11.2018.**

महोदय/Dear Sir,

आईईंजींसीं-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 22-नवंबर-2018 की अखिल भारतीय प्रणाली की दैनिक ग्रिड निष्पादन रिपोर्ट रांभांप्रेकें 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 22<sup>nd</sup> November 2018, 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

23-Nov-18

A. Maximum Demand

	NR	WR	SR	ER	NER	Total
Demand Met during Evening Peak hrs(MW) (at 1900 hrs; from RLDCs)	42900	49932	39419	18315	2449	153015
Peak Shortage (MW)	510	0	0	150	45	705
Energy Met (MU)	904	1185	872	348	42	3351
Hydro Gen (MU)	126	23	55	37	8	249
Wind Gen (MU)	5	41	59	-----	-----	105
Solar Gen (MU)*	21.05	18.44	49.62	0.83	0.04	90
Energy Shortage (MU)	10.5	0.0	0.0	0.5	0.6	11.5
Maximum Demand Met during the day (MW) & time (from NLDC SCADA)	43701 18:46	55772 10:42	40012 18:26	19095 18:16	2616 19:18	155900 18:24

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	0.033	0.00	0.00	2.62	2.62	78.29	19.10

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	5443	0	114.3	28.5	0.1	103	0.0
	Haryana	6093	0	118.7	70.3	1.0	245	0.0
	Rajasthan	11535	0	230.1	66.8	3.3	474	0.0
	Delhi	3230	0	62.1	45.6	0.2	195	0.0
	UP	13074	0	267.2	113.7	0.4	286	0.0
	Uttarakhand	1876	0	35.8	22.7	1.5	172	0.2
	HP	1544	0	28.0	19.0	0.2	76	0.0
	J&K	2173	543	44.8	36.6	0.4	169	10.3
	Chandigarh	179	0	3.2	3.0	0.2	32	0.0
WR	Chhattisgarh	3532	0	77.8	8.3	0.4	335	0.0
	Gujarat	15291	0	338.7	131.5	2.1	565	0.0
	MP	13475	0	271.5	155.0	-1.9	579	0.0
	Maharashtra	21703	0	450.5	121.0	-2.6	794	0.0
	Goa	480	0	10.4	10.1	0.0	85	0.0
	DD	318	0	7.1	6.5	0.6	82	0.0
	DNH	684	0	15.1	14.9	0.3	109	0.0
	Essar steel	672	0	13.5	13.2	0.2	292	0.0
	Andhra Pradesh	7553	0	165.8	52.7	1.8	648	0.0
SR	Telangana	8133	0	177.7	83.3	2.0	478	0.0
	Karnataka	9599	0	194.8	61.6	1.0	468	0.0
	Kerala	3586	0	71.7	54.7	1.8	386	0.0
	Tamil Nadu	12776	0	256.0	136.3	0.7	567	0.0
	Pondy	323	0	6.4	6.7	-0.3	16	0.0
	Bihar	4033	0	71.5	68.7	0.2	460	0.0
ER	DVC	2982	0	63.1	-29.2	2.1	396	0.0
	Jharkhand	1127	0	24.1	14.8	-1.4	169	0.0
	Odisha	4457	150	83.2	36.2	4.1	267	0.5
	West Bengal	6414	0	104.8	26.2	1.8	309	0.0
	Sikkim	100	0	1.4	2.0	-0.6	18	0.0
	Arunachal Pradesh	128	4	2.0	2.0	0.0	13	0.0
NER	Assam	1450	28	23.1	18.8	0.2	140	0.4
	Manipur	156	4	2.3	2.6	-0.4	14	0.0
	Meghalaya	352	2	6.1	4.3	0.0	46	0.0
	Mizoram	94	4	1.8	0.6	0.6	7	0.0
	Nagaland	131	3	2.2	1.7	0.3	24	0.0
	Tripura	220	1	4.1	1.4	0.7	37	0.1

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

	Bhutan	Nepal	Bangladesh
Actual(MU)	6.1	-2.8	13.1
Day peak (MW)	300.3	-148.0	598.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	144.8	-168.0	110.8	-86.4	-0.5	0.6
Actual(MU)	144.6	-187.8	116.7	-76.9	-1.1	-4.4
OD/UD(MU)	-0.2	-19.8	6.0	9.5	-0.5	-5.0

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	Total
Central Sector	4593	13155	7542	600	131	26021
State Sector	12395	13414	9440	6425	50	41724
Total	16988	26569	16982	7025	181	67744

G. Sourcewise generation (MU)

	NR	WR	SR	ER	NER	All India
Thermal (Coal & Lignite)	535	1223	506	428	9	2701
Hydro	126	23	55	37	8	249
Nuclear	25	18	36	0	0	79
Gas, Naptha & Diesel	29	41	23	0	29	122
RES (Wind, Solar, Biomass & Others)	57	61	145	1	0	265
Total	772	1366	765	466	46	3415

Share of RES in total generation (%)	7.40	4.49	18.99	0.19	0.09	7.75
Share of Non-fossil fuel (Hydro, Nuclear and RES) in total generation (%)	26.90	7.48	30.90	8.19	16.83	17.34

H. Diversity Factor

All India Demand Diversity Factor	1.034
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Diversity factor = Sum of regional 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 : 23-Nov-18

Import=(+ve)  
/Export =(-ve)  
for NET (MU)

SI 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	394	0.0	5.0	-5.0
2		SASARAM-FATEHPUR	S/C	94	144	0.5	0.8	-0.3
3		GAYA-BALIA	S/C	0	216	0.0	3.2	-3.2
4	HVDC	ALIPURDUAR-AGRA	-	0	300	0.0	5.7	-5.7
5		PUSAULI B/B	S/C	2	348	0.0	6.7	-6.7
6	400 kV	PUSAULI-VARANASI	S/C	0	224	0.0	4.1	-4.1
7		PUSAULI-ALLAHABAD	S/C	0	180	0.0	2.6	-2.6
8		MUZAFFARPUR-GORAKHPUR	D/C	153	267	0.5	1.4	-0.9
9		PATNA-BALIA	Q/C	0	649	0.0	13.9	-13.9
10		BIHARSHARIFF-BALIA	D/C	16	69	0.0	1.0	-1.0
11		MOTIHARI-GORAKHPUR	D/C	0	375	0.0	7.2	-7.2
12		BIHARSHARIFF-VARANASI	D/C	148	65	0.8	0.0	0.8
13	220 kV	PUSAULI-SAHUPURI	S/C	0	161	0.0	2.0	-2.0
14	132 kV	SONE NAGAR-RIHAND	S/C	0	0	0.0	0.0	0.0
15		GARWAH-RIHAND	S/C	25	0	0.6	0.0	0.6
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>2.4</b>	<b>53.5</b>	<b>-51.0</b>
<b>Import/Export of ER (With WR)</b>								
18	765 kV	JHARSUGUDA-DHARAMJAIGARH S/C	D/C	1460	0	22.8	0.0	22.8
19		NEW RANCHI-DHARAMJAIGARH	D/C	272	353	1.4	2.0	-0.6
20	400 kV	JHARSUGUDA-RAIGARH	Q/C	329	0	4.1	0.0	4.1
21		RANCHI-SIPAT	D/C	204	0	2.9	0.0	2.9
22	220 kV	BUDHIPADAR-RAIGARH	S/C	0	80	0.0	1.2	-1.2
23		BUDHIPADAR-KORBA	D/C	213	0	3.9	0.0	3.9
<b>ER-WR</b>						<b>35.2</b>	<b>3.1</b>	<b>32.0</b>
<b>Import/Export of ER (With SR)</b>								
24	765 kV	ANGUL-SRIKAKULAM	D/C	0.0	1763.0	0.0	31.5	-31.5
25	HVDC	JEYPORE-GAZUWAKA B/B	D/C	0.0	590.0	0.0	14.6	-14.6
26	LINK	TALCHER-KOLAR BIPOLE	D/C	0.0	1980.0	0.0	47.7	-47.7
27	400 kV	TALCHER-I/C	D/C	0.0	685.0	0.0	3.1	-3.1
28	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>93.8</b>	<b>-93.8</b>
<b>Import/Export of ER (With NER)</b>								
29	400 kV	BINAGURI-BONGAIGAON	D/C	0	508	0.0	7.5	-8
30		ALIPURDUAR-BONGAIGAON	D/C	0	364	0.0	5.4	-5
31	220 kV	ALIPURDUAR-SALAKATI	D/C	0	125	0.0	2.1	-2
<b>ER-NER</b>						<b>0.0</b>	<b>15.0</b>	<b>-15.0</b>
<b>Import/Export of NER (With NR)</b>								
32	HVDC	BISWANATH CHARIALI-AGRA	-	0	733	0.0	14.9	-14.9
<b>NER-NR</b>						<b>0.0</b>	<b>14.9</b>	<b>-14.9</b>
<b>Import/Export of WR (With NR)</b>								
33	HVDC	CHAMPA-KURUKSHETRA	D/C	0	903	0.0	21.5	-21.5
34		V'CHAL B/B	D/C	241	0	6.0	0.0	6.0
35		APL -MHG	D/C	0	790	0.0	19.4	-19.4
36	765 kV	GWALIOR-AGRA	D/C	0	874	0.0	31.8	-31.8
37		PHAGI-GWALIOR	D/C	0	1179	0.0	21.4	-21.4
38		JABALPUR-ORAI	D/C	0	424	0.0	7.2	-7.2
39		GWALIOR-ORAI	S/C	497	0	9.3	0.0	9.3
40		SATNA-ORAI	S/C	0	1690	0.0	38.1	-38.1
41	400 kV	ZERDA-KANKROLI	S/C	302	0	5.5	0.0	5.5
42		ZERDA -BHINMAL	S/C	158	131	1.3	0.0	1.3
43		V'CHAL -RIHAND	S/C	980	0	22.4	0.0	22.4
44		RAPP-SHUJALPUR	D/C	298	0	2	0	2
45	220 kV	BADOD-KOTA	S/C	64	1	2.1	0.0	2.1
46		BADOD-MORAK	S/C	58	26	0.4	0.0	0.3
47		MEHGAON-AURAIYA	S/C	107	0	1.5	0.0	1.5
48		MALANPUR-AURAIYA	S/C	60	2	0.6	0.0	0.6
49	132kV	GWALIOR-SAWAI MADHOPUR	S/C	0	0	0.0	0.0	0.0
<b>WR-NR</b>						<b>51.2</b>	<b>139.4</b>	<b>-88.2</b>
<b>Import/Export of WR (With SR)</b>								
50	HVDC	BHADRAWATI B/B	-	0	995	0.0	20.7	-20.7
51	LINK	BARSUR-L.SILERU	-	0	0	0.0	0.0	0.0
52	765 kV	SOLAPUR-RAICHUR	D/C	17	1820	0.0	24.3	-24.3
53		WARDHA-NIZAMABAD	D/C	0	2219	0.0	36.4	-36.4
54	400 kV	KOLHAPUR-KUDGI	D/C	984	0	10.7	0.0	10.7
55	220 kV	KOLHAPUR-CHIKODI	D/C	0	0	0.0	0.0	0.0
56		PONDA-AMBEWADI	S/C	1	0	0.0	0.0	0.0
57		XELDEM-AMBEWADI	S/C	0	68	1.3	0.0	1.3
<b>WR-SR</b>						<b>12.0</b>	<b>81.4</b>	<b>-69.4</b>
<b>TRANSNATIONAL EXCHANGE</b>								
58		BHUTAN						<b>6.1</b>
59		NEPAL						<b>-2.8</b>
60		BANGLADESH						<b>13.1</b>