



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: 22<sup>nd</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 21.11.2019.**

महोदय/Dear Sir,

आईईजीसी-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 21-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 21<sup>st</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 22-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)	43761	48568	39112	18595	2355	152391
Peak Shortage (MW)	510	0	0	0	56	566
Energy Met (MU)	877	1116	910	345	42	3290
Hydro Gen (MU)	127	46	97	47	11	328
Wind Gen (MU)	14	24	49	-----	-----	87
Solar Gen (MU)*	25.27	21.9	74.33	2.02	0.00	124
Energy Shortage (MU)	11.7	0.0	0.0	0.0	1.2	13.0
Maximum Demand Met during the day (MW) & time (from NLDC SCADA)	44212 18:27	50584 11:05	41438 18:53	18585 18:00	2453 18:07	153793 18:27

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	0.038	0.00	0.00	3.68	3.68	65.76	30.56

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	5266	0	104.4	39.9	-2.2	10	0.0
	Haryana	5877	0	116.7	104.2	0.8	157	0.0
	Rajasthan	11551	0	215.5	56.9	-0.3	537	0.0
	Delhi	3337	0	63.4	52.8	-1.0	123	0.0
	UP	14493	0	266.6	117.8	0.6	890	1.2
	Uttarakhand	1766	0	34.6	19.7	0.6	137	0.0
	HP	1580	0	27.9	20.1	-0.5	128	0.0
	J&K	2160	540	44.4	37.1	-0.1	201	10.5
	Chandigarh	195	0	3.4	3.3	0.0	23	0.0
WR	Chhattisgarh	3400	0	71.6	30.7	-0.3	255	0.0
	Gujarat	14953	0	326.4	83.0	3.3	500	0.0
	MP	12408	0	240.6	154.3	0.0	419	0.0
	Maharashtra	20265	0	433.4	136.1	-2.0	485	0.0
	Goa	602	0	13.0	12.6	-0.2	28	0.0
	DD	327	0	7.4	6.8	0.6	43	0.0
	DNH	796	0	18.4	18.3	0.1	50	0.0
	Essar steel	315	0	4.8	5.6	-0.8	295	0.0
	Andhra Pradesh	7829	0	168.6	72.2	0.3	410	0.0
SR	Telangana	9105	0	197.2	85.2	-0.4	405	0.0
	Karnataka	9565	0	186.2	37.6	0.3	546	0.0
	Kerala	3481	0	71.6	49.9	1.7	301	0.0
	Tamil Nadu	13317	0	279.1	159.3	0.8	545	0.0
	Pondy	361	0	7.2	7.6	-0.5	29	0.0
	Bihar	4160	0	68.2	63.2	-1.7	260	0.0
ER	DVC	3079	0	63.7	-37.3	0.5	370	0.0
	Jharkhand	1204	0	24.3	17.1	-0.6	31	0.0
	Odisha	3944	0	74.8	8.8	0.1	415	0.0
	West Bengal	6410	0	112.6	30.7	1.9	510	0.0
	Sikkim	124	0	1.8	1.4	0.4	37	0.0
	NER	Arunachal Pradesh	115	1	2.1	1.7	0.2	11
Assam		1392	40	23.3	17.9	0.2	67	1.2
Manipur		154	1	2.5	2.5	0.0	39	0.0
Meghalaya		350	0	6.0	3.0	0.3	113	0.0
Mizoram		101	1	2.2	0.8	0.1	24	0.0
Nagaland		119	2	2.3	1.9	0.1	18	0.0
Tripura		226	1	4.0	2.2	-0.1	47	0.0

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

	Bhutan	Nepal	Bangladesh
Actual(MU)	11.9	-1.4	-13.4
Day peak (MW)	842.5	-235.6	-791.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	202.7	-194.8	102.1	-107.5	-2.2	0.3
Actual(MU)	219.3	-203.5	108.9	-114.1	-1.8	8.8
O/D/U/D(MU)	16.6	-8.7	6.8	-6.6	0.4	8.5

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	Total
Central Sector	6123	16784	7522	2585	563	33578
State Sector	14428	17009	10173	5935	11	47556
Total	20551	33793	17695	8520	575	81134

G. Sourcewise generation (MU)

	NR	WR	SR	ER	NER	All India
Coal	434	1125	425	425	12	2420
Lignite	22	15	52	0	0	89
Hydro	127	46	97	47	11	328
Nuclear	28	28	55	0	0	111
Gas, Naptha & Diesel	21	61	15	0	25	123
RES (Wind, Solar, Biomass & Others)	61	50	164	2	0	278
Total	694	1325	808	473	49	3348

Share of RES in total generation (%)	8.80	3.81	20.32	0.44	0.08	8.29
Share of Non-fossil fuel (Hydro, Nuclear and RES) in total generation (%)	31.23	9.37	39.10	10.30	23.42	21.41

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.023
Based on State Max Demands	1.068

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 : 22-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	893	0.0	12.7	-12.7
2		SASARAM-FATEHPUR	S/C	0	482	0.0	6.5	-6.5
3		GAYA-BALIA	S/C	0	472	0.0	7.9	-7.9
4	HVDC	ALIPURDUAR-AGRA	-	0	0	0.0	0.0	0.0
5		PUSAULI B/B	S/C	0	196	0.0	4.9	-4.9
6	400 kV	PUSAULI-VARANASI	S/C	0	138	0.0	2.4	-2.4
7		PUSAULI -ALLAHABAD	S/C	0	142	0.0	2.2	-2.2
8		MUZAFFARPUR-GORAKHPUR	D/C	0	1132	0.0	17.4	-17.4
9		PATNA-BALIA	Q/C	0	1278	0.0	23.1	-23.1
10		BIHARSHARIFF-BALIA	D/C	0	481	0.0	7.6	-7.6
11		MOTIHARI-GORAKHPUR	D/C	3	7	0.0	0.0	0.0
12		BIHARSHARIFF-VARANASI	D/C	0	394	0.0	4.8	-4.8
13	220 kV	PUSAULI-SAHUPURI	S/C	0	93	0.0	1.4	-1.4
14	132 kV	SONE NAGAR-RIHAND	S/C	0	0	0.0	0.0	0.0
15		GARWAH-RIHAND	S/C	30	0	0.4	0.0	0.4
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>0.4</b>	<b>90.8</b>	<b>-90.5</b>
<b>Import/Export of ER (With WR)</b>								
18	765 kV	JHARSUGUDA-DHARAMJAIGARH	Q/C	1359	0	20.0	0.0	20.0
19		NEW RANCHI-DHARAMJAIGARH	D/C	369	446	0.3	0.0	0.3
20		JHARSUGUDA-DURG	D/C	84	170	0.0	1.3	-1.3
21	400 kV	JHARSUGUDA-RAIGARH	Q/C	99	245	0.0	0.9	-0.9
22		RANCHI-SIPAT	D/C	143	124	0.5	0.0	0.5
23	220 kV	BUDHIPADAR-RAIGARH	S/C	0	115	0.0	1.9	-1.9
24		BUDHIPADAR-KORBA	D/C	46	44	0.1	0.2	-0.1
<b>ER-WR</b>						<b>21.0</b>	<b>4.3</b>	<b>16.7</b>
<b>Import/Export of ER (With SR)</b>								
25	765 kV	ANGUL-SRIKAKULAM	D/C	0.0	1847.0	0.0	37.9	-37.9
26	HVDC	JEYPORE-GAZUWAKA B/B	D/C	0.0	739.0	0.0	12.7	-12.7
27	LINK	TALCHER-KOLAR BIPOLE	D/C	0.0	2374.0	0.0	40.0	-40.0
28	400 kV	TALCHER-I/C	D/C	546.0	881.0	0.0	3.8	-3.8
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>90.6</b>	<b>-90.6</b>
<b>Import/Export of ER (With NER)</b>								
30	400 kV	BINAGURI-BONGAIGAON	D/C	280	8	4.4	0.0	4
31		ALIPURDUAR-BONGAIGAON	D/C	371	0	6.6	0.0	7
32	220 kV	ALIPURDUAR-SALAKATI	D/C	36	0	0.6	0.0	1
<b>ER-NER</b>						<b>11.6</b>	<b>0.0</b>	<b>11.6</b>
<b>Import/Export of NER (With NR)</b>								
33	HVDC	BISWANATH CHARIALI-AGRA	-	370	0	9.2	0.0	9.2
<b>NER-NR</b>						<b>9.2</b>	<b>0.0</b>	<b>9.2</b>
<b>Import/Export of WR (With NR)</b>								
34	HVDC	CHAMPA-KURUKSHETRA	D/C	0	1504	0.0	29.7	-29.7
35		V'CHAL B/B	D/C	452	0	7.2	0.0	7.2
36		APL -MHG	D/C	0	1364	0.0	32.4	-32.4
37	765 kV	GWALIOR-AGRA	D/C	0	1847	0.0	31.9	-31.9
38		PHAGI-GWALIOR	D/C	0	1514	0.0	20.7	-20.7
39		JABALPUR-ORAI	D/C	618	769	0.0	24.3	-24.3
40		GWALIOR-ORAI	S/C	607	0	9.6	0.0	9.6
41		SATNA-ORAI	S/C	0	1355	0.0	27.9	-27.9
42		CHITTORGARH-BANASKANTHA	D/C	295	531	0.0	2.7	-2.7
43		ZERDA-KANKROLI	S/C	163	94	1.3	0.2	1.2
44	400 kV	ZERDA -BHINMAL	S/C	200	256	1.1	1.1	0.1
45		V'CHAL -RIHAND	S/C	982	0	22.4	0.0	22.4
46	220 kV	RAPP-SHUJALPUR	D/C	238	162	0	2	-2
47		BHANPURA-RANPUR	S/C	39	36	0.1	0.2	-0.1
48		BHANPURA-MORAK	S/C	55	54	0.4	0.2	0.2
49		MEHGAON-AURAIYA	S/C	110	0	1.4	0.0	1.4
50	132kV	MALANPUR-AURAIYA	S/C	56	13	0.3	0.0	0.3
51		GWALIOR-SAWAI MADHOPUR	S/C	0	0	0.0	0.0	0.0
<b>WR-NR</b>						<b>44.0</b>	<b>172.7</b>	<b>-128.7</b>
<b>Import/Export of WR (With SR)</b>								
52	HVDC	BHADRAWATI B/B	-	0	995	0.0	10.1	-10.1
53	LINK	BARSUR-L.SILERU	-	0	0	0.0	0.0	0.0
54	765 kV	SOLAPUR-RAICHUR	D/C	839	1383	0.0	13.8	-13.8
55		WARDHA-NIZAMABAD	D/C	1787	2405	0.0	43.4	-43.4
56	400 kV	KOLHAPUR-KUDGI	D/C	953	0	11.3	0.0	11.3
57	220 kV	KOLHAPUR-CHIKODI	D/C	0	0	0.0	0.0	0.0
58		PONDA-AMBEWADI	S/C	0	76	0.0	1.6	-1.6
59		XELDEM-AMBEWADI	S/C	0	85	1.7	0.0	1.7
<b>WR-SR</b>						<b>13.0</b>	<b>68.8</b>	<b>-55.8</b>
<b>TRANSNATIONAL EXCHANGE</b>								
60		BHUTAN						<b>11.9</b>
61		NEPAL						<b>-1.4</b>
62		BANGLADESH						<b>-13.4</b>