National Load Despatch Centre
राष्ट्रीय भार प्रेषण केंद्र
POWER SYSTEM OPERATION CORPORATION LIMITED
पॉवर 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: 22nd Nov 2018

To,

1. कार्यकारी निदेशक, पू .क्षे .भा .प्रे .के.,14 , गोल्फ क्लब रोड , कोलकाता - 700033
   Executive Director, ERLDC, 14 Golf Club Road, Tolleygunge, 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., डोंगतिएह, 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 21.11.2018.

महोदय/Dear Sir,

आई०ई०जी०सी०-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 21-नवंबर-2018 की अखिल भारतीय प्रणाली की दैनिक ग्रिड निष्पादन रिपोर्ट रा०भा०प्रे०के० की वेबसाइट पर उप्लब्ध 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 21st 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** **22-Nov-18**

A. Maximum Demand

	NR	WR	SR	ER	NER	Total
Demand Met during Evening Peak hrs(MW) (at 1900 hrs; from RLDCs)	41901	49355	39666	18964	2422	152308
Peak Shortage (MW)	523	0	0	0	34	557
Energy Met (MU)	894	1176	901	362	42	3375
Hydro Gen (MU)	132	22	62	39	8	263
Wind Gen (MU)	12	23	39	----------	----------	74
Solar Gen (MU)*	20.90	18.16	61.39	0.82	0.04	101
Energy Shortage (MU)	11.5	0.0	0.0	0.0	0.6	12.1
Maximum Demand Met during the day (MW) & time (from NLDC SCADA)	43091	54702	40041	19109	2498	155570
	18:01	11:01	18:32	18:26	17:20	18:26

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	0.032	0.00	0.08	6.11	6.19	86.67	7.14

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	5347	0	115.3	27.6	0.2	124	0.0
	Haryana	5936	0	116.9	69.1	1.5	226	0.6
	Rajasthan	11414	0	227.1	58.9	2.6	503	0.0
	Delhi	3460	0	61.3	43.6	0.7	179	0.0
	UP	12615	0	270.4	115.0	0.6	246	0.0
	Uttarakhand	1883	0	35.2	21.1	1.5	342	1.0
	HP	1566	0	28.3	18.7	0.8	149	0.2
	J&K	2250	562	36.6	36.4	2.3	328	9.7
	Chandigarh	181	0	3.2	3.0	0.2	30	0.0
WR	Chhattisgarh	3530	0	76.4	8.7	-1.9	141	0.0
	Gujarat	15092	0	331.5	130.4	5.3	590	0.0
	MP	13310	0	272.3	158.2	-2.7	286	0.0
	Maharashtra	21126	0	449.5	129.1	-3.6	439	0.0
	Goa	480	0	10.6	10.4	-0.1	25	0.0
	DD	324	0	7.2	6.5	0.7	84	0.0
	DNH	670	0	15.5	15.0	0.4	92	0.0
	Essar steel	629	0	13.0	11.5	1.4	307	0.0
SR	Andhra Pradesh	8022	0	174.9	62.4	0.7	697	0.0
	Telangana	8108	0	176.7	81.7	1.5	360	0.0
	Karnataka	10543	0	205.3	69.7	0.4	402	0.0
	Kerala	3655	0	71.1	53.3	0.8	218	0.0
	Tamil Nadu	12609	0	266.6	135.3	0.7	414	0.0
	Pondy	303	0	6.4	6.9	-0.5	17	0.0
ER	Bihar	4065	0	70.8	69.0	-0.8	460	0.0
	DVC	2927	0	62.4	-30.2	1.3	396	0.0
	Jharkhand	1165	0	24.9	14.7	-1.2	169	0.0
	Odisha	4395	0	86.3	35.8	2.6	267	0.0
	West Bengal	6811	0	116.4	25.2	1.9	309	0.0
	Sikkim	100	0	1.4	1.5	-0.1	18	0.0
NER	Arunachal Pradesh	121	3	2.4	2.0	0.4	40	0.0
	Assam	1452	23	23.9	18.8	0.9	123	0.5
	Manipur	151	6	2.5	2.6	-0.1	65	0.0
	Meghalaya	348	4	6.2	3.7	0.3	208	0.0
	Mizoram	91	8	1.7	1.1	0.1	0	0.0
	Nagaland	129	3	2.2	1.8	0.2	25	0.0
	Tripura	218	7	3.4	1.5	-0.2	31	0.0

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

	Bhutan	Nepal	Bangladesh
Actual(MU)	7.0	-2.8	-16.0
Day peak (MW)	305.0	-134.0	-825.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	135.4	-162.3	117.9	-90.2	-0.2	0.6
Actual(MU)	136.6	-182.4	123.7	-81.6	-0.5	-4.2
O/D/U/D(MU)	1.3	-20.2	5.8	8.6	-0.3	-4.8

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	Total
Central Sector	5093	12945	8042	600	131	26811
State Sector	11895	12177	8710	5925	50	38757
Total	16988	25122	16752	6525	181	65568

G. Sourcewise generation (MU)

	NR	WR	SR	ER	NER	All India
Thermal (Coal & Lignite)	535	1233	531	442	9	2750
Hydro	132	22	62	39	8	263
Nuclear	24	17	36	0	0	78
Gas, Naptha & Diesel	31	41	23	0	29	125
RES (Wind, Solar, Biomass & Others)	63	44	137	1	0	244
Total	785	1357	790	481	46	3459

Share of RES in total generation (%)	7.99	3.21	17.32	0.18	0.09	7.05
Share of Non-fossil fuel (Hydro, Nuclear and RES) in total generation (%)	27.89	6.09	29.78	8.21	18.29	16.90

H. Diversity Factor

All India Demand Diversity Factor	1.025

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.

कार्यपालक निदेशक (रा० भा० प्रे० के०)

INTER-REGIONAL EXCHANGES

Date of Reporting : **22-Nov-18**

Sl No	Voltage Level	Line Details	Circuit	Max Import (MW)	Max Export (MW)	Import (MU)	Export (MU)	Import=(+ve) /Export =(-ve) for NET (MU) NET (MU)
Import/Export of ER (With NR)								
1	**765kV**	GAYA-VARANASI	D/C	35	477	0.0	5.4	-5.4
2		SASARAM-FATEHPUR	S/C	161	149	0.4	0.0	0.4
3		GAYA-BALIA	S/C	0	185	0.0	2.8	-2.8
4	**HVDC**	ALIPURDUAR-AGRA	-	0	300	0.0	7.1	-7.1
5		PUSAULI B/B	S/C	0	348	0.0	8.4	-8.4
6	**400 kV**	PUSAULI-VARANASI	S/C	0	239	0.0	4.9	-4.9
7		PUSAULI -ALLAHABAD	S/C	0	171	0.0	3.2	-3.2
8		MUZAFFARPUR-GORAKHPUR	D/C	167	373	0.0	1.8	-1.8
9		PATNA-BALIA	Q/C	0	667	0.0	13.1	-13.1
10		BIHARSHARIFF-BALIA	D/C	28	49	0.0	0.6	-0.6
11		MOTIHARI-GORAKHPUR	D/C	0	389	0.0	7.5	-7.5
12		BIHARSHARIFF-VARANASI	D/C	164	92	0.4	0.0	0.4
13	**220 kV**	PUSAULI-SAHUPURI	S/C	0	124	0.0	1.9	-1.9
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
					ER-NR	**1.4**	**56.7**	**-55.3**
Import/Export of ER (With WR)								
18	**765 kV**	JHARSUGUDA-DHARAMJAIGARH S/C	D/C	1620	0	24.2	0.0	24.2
19		NEW RANCHI-DHARAMJAIGARH	D/C	163	380	0.0	0.9	-0.9
20	**400 kV**	JHARSUGUDA-RAIGARH	Q/C	293	0	4.3	0.0	4.3
21		RANCHI-SIPAT	D/C	184	2	2.8	0.0	2.8
22	**220 kV**	BUDHIPADAR-RAIGARH	S/C	0	89	0.0	1.0	-1.0
23		BUDHIPADAR-KORBA	D/C	230	0	4.1	0.0	4.1
					ER-WR	**35.4**	**1.9**	**33.5**
Import/Export of ER (With SR)								
24	**765 kV**	ANGUL-SRIKAKULAM	D/C	0.0	1783.0	0.0	33.2	-33.2
25	**HVDC LINK**	JEYPORE-GAZUWAKA B/B	D/C	0.0	623.0	0.0	14.6	-14.6
26		TALCHER-KOLAR BIPOLE	D/C	0.0	2467.0	0.0	51.9	-51.9
27	**400 kV**	TALCHER-I/C	D/C	0.0	840.0	0.0	6.4	-6.4
28	**220 kV**	BALIMELA-UPPER-SILERRU	S/C	1.0	0.0	0.0	0.0	0.0
					ER-SR	**0.0**	**99.7**	**-99.7**
Import/Export of ER (With NER)								
29	**400 kV**	BINAGURI-BONGAIGAON	D/C	0	496	0.0	8.0	-8
30		ALIPURDUAR-BONGAIGAON	D/C	0	297	0.0	3.7	-4
31	**220 kV**	ALIPURDUAR-SALAKATI	D/C	0	130	0.0	1.9	-2
					ER-NER	**0.0**	**13.6**	**-13.6**
Import/Export of NER (With NR)								
32	**HVDC**	BISWANATH CHARIALI-AGRA	-	0	753	0.0	13.9	-13.9
					NER-NR	**0.0**	**13.9**	**-13.9**
Import/Export of WR (With NR)								
33	**HVDC**	CHAMPA-KURUKSHETRA	D/C	0	903	0.0	21.6	-21.6
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	913	0.0	30.7	-30.7
37		PHAGI-GWALIOR	D/C	0	1182	0.0	20.0	-20.0
38		JABALPUR-ORAI	D/C	72	175	0.0	5.6	-5.6
39		GWALIOR-ORAI	S/C	469	0	9.2	0.0	9.2
40		SATNA-ORAI	S/C	0	1693	0.0	37.8	-37.8
41	**400 kV**	ZERDA-KANKROLI	S/C	322	0	5.9	0.0	5.9
42		ZERDA -BHINMAL	S/C	220	95	2.2	0.0	2.2
43		V'CHAL -RIHAND	S/C	986	0	22.6	0.0	22.6
44		RAPP-SHUJALPUR	D/C	351	0	3	0	3
45	**220 kV**	BADOD-KOTA	S/C	62	2	0.9	0.0	0.9
46		BADOD-MORAK	S/C	129	23	1.1	0.0	1.1
47		MEHGAON-AURAIYA	S/C	111	0	1.5	0.0	1.5
48		MALANPUR-AURAIYA	S/C	66	0	0.7	0.0	0.7
49	**132kV**	GWALIOR-SAWAI MADHOPUR	S/C	0	0	0.0	0.0	0.0
					WR-NR	**52.8**	**135.1**	**-82.3**
Import/Export of WR (With SR)								
50	**HVDC LINK**	BHADRAWATI B/B	-	0	1002	0.0	21.6	-21.6
51		BARSUR-L.SILERU	-	0	0	0.0	0.0	0.0
52	**765 kV**	SOLAPUR-RAICHUR	D/C	5	1994	0.0	25.2	-25.2
53		WARDHA-NIZAMABAD	D/C	0	2338	0.0	35.6	-35.6
54	**400 kV**	KOLHAPUR-KUDGI	D/C	899	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	65	1.3	0.0	1.3
					WR-SR	**12.0**	**82.5**	**-70.5**
TRANSNATIONAL EXCHANGE								
58		BHUTAN						**7.0**
59		NEPAL						**-2.8**
60		BANGLADESH						**-16.0**