



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: 21th 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., 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 20.11.2018.

महोदय/Dear Sir,

आई०ई०जी०सी०-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 20-नवंबर-2018 की अखिल भारतीय प्रणाली की दैनिक ग्रिड निष्पादन रिपोर्ट रा०भा०प्रे०के० 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 20th November 2018, is available at the NLDC website.

धन्यवाद,

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

Report for previous day

Date of Reporting

21-Nov-18

A. Maximum Demand

	NR	WR	SR	ER	NER	Total
Demand Met during Evening Peak hrs(MW) (at 1900 hrs: from RLDCs)	42236	49243	40835	18142	2419	152875
Peak Shortage (MW)	770	0	0	0	35	805
Energy Met (MU)	903	1169	911	352	42	3377
Hydro Gen (MU)	129	23	63	36	9	260
Wind Gen (MU)	21	20	34	-----	-----	75
Solar Gen (MU)*	19.66	16.89	59.56	0.82	0.05	97
Energy Shortage (MU)	11.5	0.0	0.0	0.0	0.5	12.0
Maximum Demand Met during the day (MW) & time (from NLDC SCADA)	43690 18:31	54127 10:23	40845 18:40	18661 19:17	2403 17:44	156199 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	0.032	0.00	0.00	3.83	3.83	80.79	15.38

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	5222	0	116.8	28.6	0.5	111	0.0	
	Haryana	5959	225	116.0	70.3	0.8	161	0.3	
	Rajasthan	11145	0	226.8	57.8	2.3	608	0.0	
	Delhi	3207	0	61.7	45.5	0.0	209	0.1	
	UP	13057	0	269.4	108.4	0.8	307	0.4	
	Uttarakhand	1851	0	36.0	23.6	0.4	190	0.0	
	HP	1568	0	27.8	19.2	0.0	135	0.0	
	J&K	2374	594	45.7	37.2	-0.8	297	10.7	
	Chandigarh	181	0	3.2	3.2	0.0	22	0.0	
	WR	Chhattisgarh	3474	0	76.2	9.1	-1.4	149	0.0
Gujarat		14998	0	327.1	133.1	0.7	582	0.0	
MP		13235	0	271.2	158.5	-1.0	216	0.0	
Maharashtra		21335	0	449.6	135.8	-3.1	448	0.0	
Goa		480	0	10.6	10.1	0.2	52	0.0	
DD		322	0	7.1	6.3	0.8	84	0.0	
DNH		664	0	15.2	14.6	0.5	72	0.0	
Essar steel		586	0	12.0	11.1	0.9	360	0.0	
SR		Andhra Pradesh	8199	0	182.4	67.9	-0.5	600	0.0
		Telangana	8286	0	179.1	86.1	2.9	625	0.0
	Karnataka	10140	0	204.3	71.5	0.1	646	0.0	
	Kerala	3523	0	69.2	50.2	1.4	253	0.0	
	Tamil Nadu	12826	0	268.9	143.9	0.3	502	0.0	
	Pondy	324	0	6.8	7.0	-0.3	36	0.0	
ER	Bihar	4014	0	70.0	68.2	-0.9	460	0.0	
	DVC	2978	0	63.5	-29.5	1.3	396	0.0	
	Jharkhand	1145	0	23.7	15.7	-0.9	169	0.0	
	Odisha	4430	0	86.3	33.8	1.6	267	0.0	
	West Bengal	6206	0	107.3	25.2	1.9	309	0.0	
	Sikkim	100	0	1.5	1.4	0.1	18	0.0	
NER	Arumachal Pradesh	121	2	2.2	1.9	0.3	40	0.0	
	Assam	1436	23	24.0	18.4	1.1	139	0.4	
	Manipur	165	1	2.6	2.6	0.0	71	0.0	
	Meghalaya	337	0	6.1	3.7	0.1	48	0.0	
	Mizoram	86	2	1.7	1.0	0.0	12	0.0	
	Nagaland	111	3	2.2	1.8	0.2	20	0.0	
	Tripura	218	0	3.6	1.6	0.0	28	0.0	

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

	Bhutan	Nepal	Bangladesh
Actual(MU)	7.2	-2.4	-18.1
Day peak (MW)	306.3	-152.0	-843.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	124.3	-160.6	119.6	-81.1	-1.9	0.3
Actual(MU)	120.3	-183.9	124.0	-70.8	-2.1	-12.5
O/D/U/D(MU)	-4.0	-23.2	4.4	10.2	-0.2	-12.8

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	Total
Central Sector	5433	13555	7752	600	157	27496
State Sector	11435	12814	8110	5365	50	37774
Total	16868	26369	15862	5965	206	65270

G. Sourcewise generation (MU)

	NR	WR	SR	ER	NER	All India
Thermal (Coal & Lignite)	539	1227	534	419	10	2728
Hydro	129	23	63	36	9	260
Nuclear	24	18	39	0	0	81
Gas, Naptha & Diesel	29	41	23	0	30	123
RES (Wind, Solar, Biomass & Others)	72	38	130	1	0	241
Total	793	1346	789	456	48	3432

Share of RES in total generation (%)	9.03	2.80	16.52	0.18	0.10	7.01
Share of Non-fossil fuel (Hydro, Nuclear and RES) in total generation (%)	28.43	5.82	29.43	8.08	17.99	16.94

H. Diversity Factor

All India Demand Diversity Factor	1.023
-----------------------------------	-------

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 : 21-Nov-18

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)	
Import/Export of ER (With NR)									
1	765kV	GAYA-VARANASI	D/C	67	333	0.0	3.1	-3.1	
2		SASARAM-FATEHPUR	S/C	151	220	1.0	0.0	1.0	
3		GAYA-BALIA	S/C	0	190	0.0	3.1	-3.1	
4		ALIPURDUAR-AGRA	-	0	300	0.0	7.0	-7.0	
5	400 kV	PUSAULI B/B	S/C	2	348	0.0	8.2	-8.2	
6		PUSAULI-VARANASI	S/C	6	244	0.0	5.0	-5.0	
7		PUSAULI -ALLAHABAD	S/C	0	161	0.0	2.9	-2.9	
8		MUZAFFARPUR-GORAKHPUR	D/C	116	353	0.0	1.9	-1.9	
9		PATNA-BALIA	Q/C	0	771	0.0	14.2	-14.2	
10		BIHARSHARIFF-BALIA	D/C	16	120	0.0	0.9	-0.9	
11		MOTIHARI-GORAKHPUR	D/C	0	348	0.0	6.6	-6.6	
12		BIHARSHARIFF-VARANASI	D/C	171	115	1.6	0.0	1.6	
13		220 kV	PUSAULI-SAHUPURI	S/C	0	123	0.0	2.1	-2.1
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						3.2	54.9	-51.7	
Import/Export of ER (With WR)									
18	765 kV	JHARSUGUDA-DHARAMJAIGARH S/C	D/C	1747	0	26.0	0.0	26.0	
19		NEW RANCHI-DHARAMJAIGARH	D/C	311	279	0.0	0.8	-0.8	
20	400 kV	JHARSUGUDA-RAIGARH	Q/C	314	0	4.1	0.0	4.1	
21		RANCHI-SIPAT	D/C	218	0	2.8	0.0	2.8	
22	220 kV	BUDHIPADAR-RAIGARH	S/C	0	101	0.0	1.5	-1.5	
23		BUDHIPADAR-KORBA	D/C	194	0	3.4	0.0	3.4	
ER-WR						36.2	2.4	33.9	
Import/Export of ER (With SR)									
24	765 kV	ANGUL-SRIKAKULAM	D/C	0.0	1883.0	0.0	34.0	-34.0	
25	HVDC	JEYPORE-GAZUWAKA B/B	D/C	0.0	623.0	0.0	14.6	-14.6	
26	LINK	TALCHER-KOLAR BIPOLE	D/C	0.0	2462.0	0.0	47.0	-47.0	
27	400 kV	TALCHER-I/C	D/C	0.0	830.0	0.0	2.1	-2.1	
28	220 kV	BALIMELA-UPPER-SILERRU	S/C	1.0	0.0	0.0	0.0	0.0	
ER-SR						0.0	95.6	-95.6	
Import/Export of ER (With NER)									
29	400 kV	BINAGURI-BONGAIGAON	D/C	0	392	0.0	6.5	-7	
30		ALIPURDUAR-BONGAIGAON	D/C	5	180	0.0	1.9	-2	
31	220 kV	ALIPURDUAR-SALAKATI	D/C	0	109	0.0	1.6	-2	
ER-NER						0.0	10.0	-10.0	
Import/Export of NER (With NR)									
32	HVDC	BISWANATH CHARIALI-AGRA	-	0	504	0.0	11.8	-11.8	
NER-NR						0.0	11.8	-11.8	
Import/Export of WR (With NR)									
33	HVDC	CHAMPA-KURUKSHETRA	D/C	0	901	0.0	21.2	-21.2	
34		V'CHAL B/B	D/C	241	0	6.1	0.0	6.1	
35		APL -MHG	D/C	0	790	0.0	19.4	-19.4	
36		GWALIOR-AGRA	D/C	0	754	0.0	26.6	-26.6	
37	765 kV	PHAGI-GWALIOR	D/C	0	1109	0.0	19.2	-19.2	
38		JABALPUR-ORAI	D/C	72	149	0.0	4.1	-4.1	
39		GWALIOR-ORAI	S/C	530	0	9.8	0.0	9.8	
40		SATNA-ORAI	S/C	0	1628	0.0	35.5	-35.5	
41		400 kV	ZERDA-KANKROLI	S/C	363	0	6.7	0.0	6.7
42			ZERDA -BHINMAL	S/C	259	31	3.3	0.0	3.3
43	V'CHAL -RIHAND		S/C	990	0	22.2	0.0	22.2	
44	220 kV	RAPP-SHUJALPUR	D/C	401	0	3	0	3	
45		BADOD-KOTA	S/C	67	0	2.7	0.0	2.7	
46		BADOD-MORAK	S/C	76	36	0.8	0.0	0.8	
47		MEHGAON-AURAIYA	S/C	113	0	1.6	0.0	1.6	
48		MALANPUR-AURAIYA	S/C	67	1	0.7	0.0	0.7	
49	132kV	GWALIOR-SAWAI MADHOPUR	S/C	0	0	0.0	0.0	0.0	
WR-NR						57.1	126.0	-68.9	
Import/Export of WR (With SR)									
50	HVDC	BHADRAWATI B/B	-	0	1002	0.0	23.3	-23.3	
51	LINK	BARSUR-L.SILERU	-	0	0	0.0	0.0	0.0	
52	765 kV	SOLAPUR-RAICHUR	D/C	0	2086	0.0	25.4	-25.4	
53		WARDHA-NIZAMABAD	D/C	0	2445	0.0	34.0	-34.0	
54	400 kV	KOLHAPUR-KUDGI	D/C	773	0	0.0	0.0	0.0	
55		KOLHAPUR-CHIKODI	D/C	0	0	0.0	0.0	0.0	
56	220 kV	PONDA-AMBEWADI	S/C	1	0	0.0	0.0	0.0	
57		XELDEM-AMBEWADI	S/C	0	66	1.3	0.0	1.3	
WR-SR						1.3	82.7	-81.4	
TRANSNATIONAL EXCHANGE									
58		BHUTAN						7.2	
59		NEPAL						-2.4	
60		BANGLADESH						-18.1	