



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: 18th 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 17.11.2019.

महोदय/Dear Sir,

आईईजीसी-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 17-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 17th 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 18-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)	40301	44045	35942	16862	2213	139363
Peak Shortage (MW)	486	0	0	0	56	542
Energy Met (MU)	815	1047	854	326	40	3082
Hydro Gen (MU)	139	28	81	44	11	303
Wind Gen (MU)	17	56	24	-----	-----	98
Solar Gen (MU)*	24.47	20.4	83.83	1.66	0.03	130
Energy Shortage (MU)	10.8	0.0	0.0	0.0	0.6	11.4
Maximum Demand Met during the day (MW) & time (from NLDC SCADA)	40343 18:53	46872 11:24	37783 18:37	17215 18:29	2327 17:44	141643 18:40

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	0.026	0.00	0.00	2.48	2.48	75.88	21.64

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	4585	0	93.0	46.3	-1.8	72	0.0
	Haryana	5095	0	101.8	91.0	0.5	291	0.0
	Rajasthan	10850	0	203.7	56.8	-1.7	410	0.0
	Delhi	3217	0	58.5	45.4	-1.1	122	0.0
	UP	14009	0	257.1	114.2	0.4	994	0.9
	Uttarakhand	1611	0	30.9	16.2	-0.1	84	0.0
	HP	1393	5	25.3	18.2	-0.9	85	0.0
	J&K	2237	559	42.0	36.2	-1.7	201	9.9
	Chandigarh	173	0	3.0	3.0	0.0	31	0.0
WR	Chhattisgarh	3303	0	70.8	25.5	-1.1	584	0.0
	Gujarat	14065	0	299.7	93.8	-1.4	407	0.0
	MP	11554	0	227.0	147.8	-2.4	419	0.0
	Maharashtra	18447	0	406.7	130.9	-3.4	506	0.0
	Goa	541	0	12.0	11.2	0.2	58	0.0
	DD	286	0	7.6	6.1	1.5	52	0.0
	DNH	753	0	17.7	17.8	-0.1	47	0.0
	Essar steel	293	0	5.6	5.7	-0.1	295	0.0
	SR	Andhra Pradesh	8004	0	168.3	74.9	0.9	552
Telangana		8599	0	189.2	77.6	0.6	372	0.0
Karnataka		8427	0	164.1	35.4	-0.6	662	0.0
Kerala		3285	0	65.4	52.5	1.1	202	0.0
Tamil Nadu		11920	0	260.2	149.2	0.3	542	0.0
Pondy		328	0	6.7	7.1	-0.5	37	0.0
ER	Bihar	4121	0	69.4	67.2	-2.1	450	0.0
	DVC	3000	0	61.3	-31.3	0.3	700	0.0
	Jharkhand	1132	0	23.9	17.4	-1.4	31	0.0
	Odisha	3473	0	64.2	9.6	0.2	200	0.0
	West Bengal	5766	0	106.1	32.6	2.1	450	0.0
Sikkim	87	0	1.1	1.3	-0.2	25	0.0	
NER	Arunachal Pradesh	110	2	2.0	1.6	0.3	15	0.0
	Assam	1318	45	22.4	16.9	0.2	99	0.6
	Manipur	166	3	2.5	2.4	0.1	28	0.0
	Meghalaya	325	0	5.7	2.9	0.2	38	0.0
	Mizoram	91	1	1.7	0.5	0.8	12	0.0
	Nagaland	118	2	2.1	1.9	-0.1	21	0.0
	Tripura	214	4	3.5	2.5	-0.6	46	0.0

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

	Bhutan	Nepal	Bangladesh
Actual(MU)	10.9	-1.2	-16.8
Day peak (MW)	590.0	-201.0	-971.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	175.6	-183.4	94.5	-86.0	-0.9	-0.3
Actual(MU)	165.0	-191.1	116.4	-93.3	-1.1	-4.1
O/D/U/D(MU)	-10.6	-7.7	21.9	-7.3	-0.2	-3.8

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	Total
Central Sector	4820	17406	7882	2080	834	33022
State Sector	14141	19258	10030	5370	11	48810
Total	18961	36664	17912	7450	846	81832

G. Sourcewise generation (MU)

	NR	WR	SR	ER	NER	All India
Coal	401	1043	403	406	10	2262
Lignite	17	13	45	0	0	76
Hydro	139	28	81	44	11	303
Nuclear	30	28	55	0	0	113
Gas, Naptha & Diesel	25	40	17	0	24	106
RES (Wind, Solar, Biomass & Others)	64	90	141	2	0	297
Total	675	1242	743	451	45	3156

Share of RES in total generation (%)	9.42	7.26	18.98	0.38	0.07	9.40
Share of Non-fossil fuel (Hydro, Nuclear and RES) in total generation (%)	34.34	11.78	37.35	10.07	23.89	22.55

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.020
Based on State Max Demands	1.079

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 : 18-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)
Import/Export of ER (With NR)								
1	765kV	GAYA-VARANASI	D/C	0	753	0.0	10.9	-10.9
2		SASARAM-FATEHPUR	S/C	0	442	0.0	5.4	-5.4
3		GAYA-BALIA	S/C	0	376	0.0	7.5	-7.5
4	HVDC	ALIPURDUAR-AGRA	-	0	0	0.0	0.0	0.0
5		PUSAULI B/B	S/C	0	196	0.0	5.0	-5.0
6	400 kV	PUSAULI-VARANASI	S/C	0	163	0.0	3.1	-3.1
7		PUSAULI -ALLAHABAD	S/C	0	118	0.0	1.7	-1.7
8		MUZAFFARPUR-GORAKHPUR	D/C	0	1006	0.0	15.0	-15.0
9		PATNA-BALIA	Q/C	0	1046	0.0	19.9	-19.9
10		BIHARSHARIFF-BALIA	D/C	0	340	0.0	5.9	-5.9
11		MOTIHARI-GORAKHPUR	D/C	0	8	0.0	0.0	0.0
12		BIHARSHARIFF-VARANASI	D/C	0	310	0.0	3.1	-3.1
13	220 kV	PUSAULI-SAHUPURI	S/C	0	71	0.0	1.1	-1.1
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
ER-NR						0.4	78.5	-78.1
Import/Export of ER (With WR)								
18	765 kV	JHARSUGUDA-DHARAMJAIGARH	Q/C	1079	0	23.4	0.0	23.4
19		NEW RANCHI-DHARAMJAIGARH	D/C	291	419	1.3	0.0	1.3
20		JHARSUGUDA-DURG	D/C	45	168	0.0	1.1	-1.1
21	400 kV	JHARSUGUDA-RAIGARH	Q/C	127	203	0.0	0.7	-0.7
22		RANCHI-SIPAT	D/C	129	121	0.8	0.0	0.8
23	220 kV	BUDHIPADAR-RAIGARH	S/C	0	62	0.0	0.6	-0.6
24		BUDHIPADAR-KORBA	D/C	126	0	2.0	0.0	2.0
ER-WR						27.4	2.5	24.9
Import/Export of ER (With SR)								
25	765 kV	ANGUL-SRIKAKULAM	D/C	0.0	2052.0	0.0	38.0	-38.0
26	HVDC	JEYPORE-GAZUWAKA B/B	D/C	0.0	695.0	0.0	15.1	-15.1
27	LINK	TALCHER-KOLAR BIPOLE	D/C	0.0	2270.0	0.0	42.5	-42.5
28	400 kV	TALCHER-I/C	D/C	392.0	484.0	0.0	2.1	-2.1
29	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)								
30	400 kV	BINAGURI-BONGAIGAON	D/C	282	0	5.0	0.0	5
31		ALIPURDUAR-BONGAIGAON	D/C	287	0	4.7	0.0	5
32	220 kV	ALIPURDUAR-SALAKATI	D/C	52	18	0.7	0.0	1
ER-NER						10.3	0.0	10.3
Import/Export of NER (With NR)								
33	HVDC	BISWANATH CHARIALI-AGRA	-	371	0	9.2	0.0	9.2
NER-NR						9.2	0.0	9.2
Import/Export of WR (With NR)								
34	HVDC	CHAMPA-KURUKSHETRA	D/C	0	1003	0.0	15.0	-15.0
35		V'CHAL B/B	D/C	451	0	12.2	0.0	12.2
36		APL -MHG	D/C	0	1737	0.0	31.9	-31.9
37	765 kV	GWALIOR-AGRA	D/C	0	1752	0.0	31.7	-31.7
38		PHAGI-GWALIOR	D/C	0	1241	0.0	18.6	-18.6
39		JABALPUR-ORAI	D/C	518	738	0.0	23.6	-23.6
40		GWALIOR-ORAI	S/C	677	0	11.5	0.0	11.5
41		SATNA-ORAI	S/C	0	1304	0.0	26.8	-26.8
42		CHITTORGARH-BANASKANTHA	D/C	267	715	0.4	5.9	-5.5
43		ZERDA-KANKROLI	S/C	119	59	1.1	0.2	1.0
44	400 kV	ZERDA -BHINMAL	S/C	191	126	1.3	0.7	0.6
45		V'CHAL -RIHAND	S/C	978	0	22.4	0.0	22.4
46	220 kV	RAPP-SHUJALPUR	D/C	184	89	2	0	2
47		BHANPURA-RANPUR	S/C	41	25	0.3	0.2	0.2
48		BHANPURA-MORAK	S/C	44	55	0.3	0.2	0.1
49		MEHGAON-AURAIYA	S/C	114	0	1.6	0.0	1.6
50	132kV	MALANPUR-AURAIYA	S/C	60	0	2.0	0.0	2.0
51		GWALIOR-SAWAI MADHOPUR	S/C	0	0	0.0	0.0	0.0
WR-NR						54.6	154.6	-100.0
Import/Export of WR (With SR)								
52	HVDC	BHADRAWATI B/B	-	0	816	0.0	13.2	-13.2
53	LINK	BARSUR-L.SILERU	-	0	0	0.0	0.0	0.0
54	765 kV	SOLAPUR-RAICHUR	D/C	657	1644	1.4	20.0	-18.6
55		WARDHA-NIZAMABAD	D/C	0	2300	0.0	40.8	-40.8
56	400 kV	KOLHAPUR-KUDGI	D/C	855	0	9.2	0.0	9.2
57	220 kV	KOLHAPUR-CHIKODI	D/C	0	0	0.0	0.0	0.0
58		PONDA-AMBEWADI	S/C	0	58	0.0	1.1	-1.1
59		XELDEM-AMBEWADI	S/C	0	56	1.3	0.0	1.3
WR-SR						12.0	75.1	-63.1
TRANSNATIONAL EXCHANGE								
60		BHUTAN						10.9
61		NEPAL						-1.2
62		BANGLADESH						-16.8