



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: 16th 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 15.11.2019.

महोदय/Dear Sir,

आईंईंजींसीं-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 15-नवम्बर-2019 की अखिल भारतीय प्रणाली की दैनिक ग्रिड निष्पादन रिपोर्ट रांभांप्रेंकें 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 15th 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 16-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)	42612	46445	40169	18289	2425	149940
Peak Shortage (MW)	611	0	0	0	31	642
Energy Met (MU)	853	1054	900	343	43	3193
Hydro Gen (MU)	134	38	100	51	12	333
Wind Gen (MU)	10	30	28	-----	-----	68
Solar Gen (MU)*	16.89	19.6	59.91	1.77	0.05	98
Energy Shortage (MU)	9.9	0.0	0.0	0.0	0.6	10.4
Maximum Demand Met during the day (MW) & time (from NLDC SCADA)	42855 18:26	48690 10:39	42250 18:32	18148 18:07	2530 17:32	152237 18:32

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	0.039	0.00	0.03	4.49	4.53	68.43	27.05

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	5048	0	101.8	52.3	-1.8	22	0.0
	Haryana	5921	0	114.4	102.9	0.6	150	0.0
	Rajasthan	10125	0	194.3	54.3	-0.2	657	0.0
	Delhi	3588	0	60.6	51.7	-0.8	101	0.0
	UP	14330	0	277.4	126.8	0.2	631	0.5
	Uttarakhand	1767	0	34.3	18.7	0.8	117	0.0
	HP	1566	0	27.8	19.2	-0.6	69	0.2
	J&K	2048	512	38.8	32.4	-1.1	201	9.2
	Chandigarh	198	0	3.5	3.4	0.1	25	0.0
WR	Chhattisgarh	3471	0	71.2	24.1	-1.2	198	0.0
	Gujarat	14262	0	307.0	83.4	3.3	596	0.0
	MP	11268	0	222.6	147.8	-3.7	419	0.0
	Maharashtra	18763	0	410.3	130.5	-3.2	764	0.0
	Goa	541	0	12.4	12.0	-0.2	330	0.0
	DD	328	0	7.3	6.8	0.5	37	0.0
	DNH	768	0	18.0	18.1	-0.1	35	0.0
	Essar steel	295	0	5.6	5.7	-0.1	295	0.0
	Andhra Pradesh	7608	0	165.5	82.5	0.8	388	0.0
SR	Telangana	8883	0	194.0	78.8	1.9	647	0.0
	Karnataka	9020	0	172.8	39.9	-0.3	459	0.0
	Kerala	3681	0	72.6	55.4	1.5	239	0.0
	Tamil Nadu	13625	0	288.3	152.2	-0.1	510	0.0
	Pondy	374	0	7.4	7.8	-0.4	38	0.0
	Bihar	4191	0	72.7	71.2	-0.7	224	0.0
ER	DVC	3027	0	61.2	-37.7	0.0	310	0.0
	Jharkhand	1185	0	24.7	16.9	-1.1	31	0.0
	Odisha	3594	0	65.2	1.4	1.0	304	0.0
	West Bengal	6457	0	117.8	37.7	2.7	602	0.0
	Sikkim	100	0	1.3	1.5	-0.1	23	0.0
NER	Arunachal Pradesh	112	2	2.0	1.6	0.3	48	0.0
	Assam	1477	21	24.7	19.3	0.1	113	0.5
	Manipur	177	1	2.4	2.3	0.1	30	0.0
	Meghalaya	322	0	5.6	2.6	0.2	65	0.0
	Mizoram	95	1	1.7	0.3	0.4	23	0.0
	Nagaland	121	1	2.1	2.0	-0.2	21	0.0
	Tripura	236	2	4.0	2.5	-0.1	38	0.0

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

	Bhutan	Nepal	Bangladesh
Actual(MU)	11.4	-1.3	-13.8
Day peak (MW)	655.9	-256.1	-963.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	202.9	-184.0	99.6	-117.5	-0.8	0.1
Actual(MU)	197.0	-192.6	110.6	-116.3	-0.3	-1.5
O/D/U/D(MU)	-5.9	-8.5	11.0	1.3	0.6	-1.6

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	Total
Central Sector	4778	16651	7432	2080	584	31525
State Sector	14176	17231	9460	4870	11	45748
Total	18954	33882	16892	6950	596	77273

G. Sourcewise generation (MU)

	NR	WR	SR	ER	NER	All India
Coal	429	1070	450	423	12	2383
Lignite	18	13	57	0	0	88
Hydro	134	38	100	51	12	333
Nuclear	28	28	55	0	0	111
Gas, Naptha & Diesel	22	55	16	0	24	116
RES (Wind, Solar, Biomass & Others)	48	60	119	2	0	230
Total	679	1264	797	475	47	3262

Share of RES in total generation (%)	7.11	4.77	14.98	0.38	0.11	7.04
Share of Non-fossil fuel (Hydro, Nuclear and RES) in total generation (%)	31.04	9.96	34.39	11.04	24.43	20.68

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.015
Based on State Max Demands	1.042

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 :	16-Nov-19
Sl No	Voltage Level	Line Details	Circuit	Max Import (MW)	Max Export (MW)	Import (MU)	Export (MU)	NET (MU)	
								Import=(+ve) /Export =(-ve) for NET (MU)	
Import/Export of ER (With NR)									
1	765kV	GAYA-VARANASI	D/C	0	967	0.0	13.9	-13.9	
2		SASARAM-FATEHPUR	S/C	0	496	0.0	6.9	-6.9	
3		GAYA-BALIA	S/C	0	481	0.0	8.3	-8.3	
4	HVDC	ALIPURDUAR-AGRA	-	0	0	0.0	0.0	0.0	
5		PUSAULI B/B	S/C	0	198	0.0	4.7	-4.7	
6	400 kV	PUSAULI-VARANASI	S/C	0	156	0.0	2.7	-2.7	
7		PUSAULI -ALLAHABAD	S/C	0	132	0.0	1.9	-1.9	
8		MUZAFFARPUR-GORAKHPUR	D/C	0	1120	0.0	17.2	-17.2	
9		PATNA-BALIA	Q/C	0	1240	0.0	23.0	-23.0	
10		BIHARSHARIFF-BALIA	D/C	0	395	0.0	7.2	-7.2	
11		MOTIHARI-GORAKHPUR	D/C	0	6	0.0	0.0	0.0	
12		BIHARSHARIFF-VARANASI	D/C	0	369	0.0	4.5	-4.5	
13	220 kV	PUSAULI-SAHUPURI	S/C	0	80	0.0	1.2	-1.2	
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	91.4	-91.1	
Import/Export of ER (With WR)									
18	765 kV	JHARSUGUDA-DHARAMJAIGARH	Q/C	955	0	18.8	0.0	18.8	
19		NEW RANCHI-DHARAMJAIGARH	D/C	464	536	0.0	0.0	0.0	
20		JHARSUGUDA-DURG	D/C	49	172	0.0	1.2	-1.2	
21	400 kV	JHARSUGUDA-RAIGARH	Q/C	131	236	0.0	1.6	-1.6	
22		RANCHI-SIPAT	D/C	170	135	0.5	0.0	0.5	
23	220 kV	BUDHIPADAR-RAIGARH	S/C	4	70	0.0	1.0	-1.0	
24		BUDHIPADAR-KORBA	D/C	114	0	1.4	0.0	1.4	
ER-WR						20.7	3.8	16.9	
Import/Export of ER (With SR)									
25	765 kV	ANGUL-SRIKAKULAM	D/C	0.0	2006.0	0.0	36.0	-36.0	
26	HVDC	JEYPORE-GAZUWAKA B/B	D/C	0.0	529.0	0.0	10.3	-10.3	
27	LINK	TALCHER-KOLAR BIPOLE	D/C	0.0	1984.0	0.0	39.1	-39.1	
28	400 kV	TALCHER-I/C	D/C	118.0	817.0	0.0	10.0	-10.0	
29	220 kV	BALIMELA-UPPER-SILERRU	S/C	1.0	0.0	0.0	0.0	0.0	
ER-SR						0.0	85.4	-85.4	
Import/Export of ER (With NER)									
30	400 kV	BINAGURI-BONGAIGAON	D/C	302	0	4.6	0.0	5	
31		ALIPURDUAR-BONGAIGAON	D/C	328	0	4.4	0.0	4	
32	220 kV	ALIPURDUAR-SALAKATI	D/C	62	19	0.6	0.0	1	
ER-NER						9.6	0.0	9.6	
Import/Export of NER (With NR)									
33	HVDC	BISWANATH CHARIALI-AGRA	-	372	0	9.3	0.0	9.3	
NER-NR						9.3	0.0	9.3	
Import/Export of WR (With NR)									
34	HVDC	CHAMPA-KURUKSHETRA	D/C	0	1005	0.0	14.9	-14.9	
35		V'CHAL B/B	D/C	450	0	6.9	0.0	6.9	
36		APL -MHG	D/C	0	1363	0.0	29.6	-29.6	
37	765 kV	GWALIOR-AGRA	D/C	0	2112	0.0	38.0	-38.0	
38		PHAGI-GWALIOR	D/C	0	1537	0.0	21.5	-21.5	
39		JABALPUR-ORAI	D/C	677	860	0.0	26.0	-26.0	
40		GWALIOR-ORAI	S/C	589	0	10.5	0.0	10.5	
41		SATNA-ORAI	S/C	0	1407	0.0	29.7	-29.7	
42		CHITTORGARH-BANASKANTHA	D/C	98	694	0.0	3.0	-3.0	
43		ZERDA-KANKROLI	S/C	124	109	1.1	0.3	0.9	
44	400 kV	ZERDA -BHINMAL	S/C	154	184	1.4	0.6	0.8	
45		V'CHAL -RIHAND	S/C	980	0	22.4	0.0	22.4	
46		RAPP-SHUJALPUR	D/C	146	211	0	0	0	
47	220 kV	BHANPURA-RANPUR	S/C	24	33	0.1	0.2	-0.1	
48		BHANPURA-MORAK	S/C	17	86	0.0	0.6	-0.5	
49		MEHGAON-AURAIYA	S/C	106	0	1.4	0.0	1.4	
50		MALANPUR-AURAIYA	S/C	51	11	0.3	0.0	0.3	
51	132kV	GWALIOR-SAWAI MADHOPUR	S/C	0	0	0.0	0.0	0.0	
WR-NR						44.4	164.3	-119.9	
Import/Export of WR (With SR)									
52	HVDC	BHADRAWATI B/B	-	0	995	0.0	12.4	-12.4	
53	LINK	BARSUR-L.SILERU	-	0	0	0.0	0.0	0.0	
54	765 kV	SOLAPUR-RAICHUR	D/C	513	1416	0.7	17.3	-16.6	
55		WARDHA-NIZAMABAD	D/C	1175	2206	0.0	36.0	-36.0	
56	400 kV	KOLHAPUR-KUDGI	D/C	849	0	10.4	0.0	10.4	
57	220 kV	KOLHAPUR-CHIKODI	D/C	0	0	0.0	0.0	0.0	
58		PONDA-AMBEWADI	S/C	0	70	0.0	1.2	-1.2	
59		XELDEM-AMBEWADI	S/C	0	78	1.3	0.0	1.3	
WR-SR						12.4	66.8	-54.4	
TRANSNATIONAL EXCHANGE									
60		BHUTAN						11.4	
61		NEPAL						-1.3	
62		BANGLADESH						-13.8	