



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: 01st Dec 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 30.11.2019.

महोदय/Dear Sir,

आईईजीसी-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 30-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 30th 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

1-Dec-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)	42371	47693	35990	18165	2356	146575
Peak Shortage (MW)	510	0	0	0	39	549
Energy Met (MU)	835	1145	857	349	41	3227
Hydro Gen (MU)	134	52	86	40	9	320
Wind Gen (MU)	31	61	44	-----	-----	136
Solar Gen (MU)*	24.52	18.9	64.04	1.54	0.03	109
Energy Shortage (MU)	12.2	0.0	0.0	0.0	0.5	12.7
Maximum Demand Met during the day (MW) & time (from NLDC SCADA)	43010 18:40	53156 11:21	39492 09:30	18335 18:53	2527 17:33	150290 18:18

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	0.030	0.00	0.06	4.05	4.11	77.75	18.14

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	5067	0	101.4	44.2	-1.5	28	0.0
	Haryana	5750	0	108.5	98.7	-0.9	175	0.0
	Rajasthan	11158	0	213.3	53.2	-1.2	454	0.0
	Delhi	3358	0	60.4	49.5	-0.7	102	0.1
	UP	13704	0	240.5	102.7	-1.0	854	1.7
	Uttarakhand	1818	0	34.2	21.4	0.6	149	0.0
	HP	1629	0	29.1	21.1	-0.2	67	0.0
	J&K	2119	530	44.1	37.2	-0.6	201	10.4
	Chandigarh	191	0	3.3	3.3	0.0	26	0.0
WR	Chhattisgarh	3377	0	71.7	21.2	-1.1	143	0.0
	Gujarat	15605	0	333.5	71.0	-2.8	560	0.0
	MP	13147	0	250.7	150.4	-4.4	419	0.0
	Maharashtra	21471	0	445.0	139.5	-3.8	415	0.0
	Goa	541	0	12.9	11.8	0.5	23	0.0
	DD	320	0	7.3	6.7	0.6	63	0.0
	DNH	785	0	18.3	18.4	-0.1	33	0.0
	Essar steel	268	0	5.4	5.3	0.1	295	0.0
	Andhra Pradesh	8202	0	170.0	75.7	-0.7	356	0.0
SR	Telangana	8171	0	167.3	71.0	1.1	353	0.0
	Karnataka	10490	0	190.9	43.0	-0.5	604	0.0
	Kerala	3453	0	72.0	53.9	1.5	233	0.0
	Tamil Nadu	11781	0	250.0	146.9	2.1	518	0.0
	Pondy	337	0	6.9	7.3	-0.3	76	0.0
	Bihar	3957	0	69.0	67.3	0.5	320	0.0
ER	DVC	2939	0	60.9	-30.0	0.8	315	0.0
	Jharkhand	1187	0	24.5	17.4	-1.0	31	0.0
	Odisha	4064	0	77.5	12.1	0.7	375	0.0
	West Bengal	6355	0	115.6	34.4	1.7	510	0.0
	Sikkim	100	0	1.4	1.5	-0.1	20	0.0
	NER	Arunachal Pradesh	126	8	2.2	2.0	0.0	14
Assam		1390	32	23.0	17.5	0.2	129	0.5
Manipur		178	7	2.5	2.6	-0.1	43	0.0
Meghalaya		347	5	6.0	2.7	0.4	92	0.0
Mizoram		108	6	1.8	0.6	0.9	22	0.0
Nagaland		112	4	2.2	2.0	-0.1	8	0.0
Tripura		242	9	3.4	1.1	-0.1	87	0.0

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

	Bhutan	Nepal	Bangladesh
Actual(MU)	7.2	-2.4	-6.4
Day peak (MW)	489.8	-100.4	-565.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	198.8	-180.5	85.8	-102.9	-1.1	0.0
Actual(MU)	185.4	-189.1	101.2	-97.9	0.9	0.5
O/D/U/D(MU)	-13.3	-8.6	15.4	5.0	2.0	0.4

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	Total
Central Sector	7006	18462	7012	1740	588	34809
State Sector	13740	15973	9420	6870	11	46014
Total	20746	34435	16432	8610	600	80823

G. Sourcewise generation (MU)

	NR	WR	SR	ER	NER	All India
Coal	395	1090	423	414	12	2334
Lignite	21	13	38	0	0	72
Hydro	134	52	86	40	9	320
Nuclear	29	28	54	0	0	110
Gas, Naptha & Diesel	15	54	16	0	22	107
RES (Wind, Solar, Biomass & Others)	82	96	150	2	0	328
Total	675	1333	766	455	43	3272

Share of RES in total generation (%)	12.08	7.19	19.52	0.35	0.07	10.04
Share of Non-fossil fuel (Hydro, Nuclear and RES) in total generation (%)	36.15	13.15	37.72	9.05	21.21	23.18

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.041
Based on State Max Demands	1.090

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 :	1-Dec-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	948	0.0	12.8	-12.8	
2		SASARAM-FATEHPUR	S/C	0	544	0.0	7.1	-7.1	
3		GAYA-BALIA	S/C	0	371	0.0	6.2	-6.2	
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	140	0.0	2.4	-2.4	
7		PUSAULI -ALLAHABAD	S/C	0	142	0.0	2.1	-2.1	
8		MUZAFFARPUR-GORAKHPUR	D/C	0	1070	0.0	15.4	-15.4	
9		PATNA-BALIA	Q/C	0	886	0.0	14.6	-14.6	
10		BIHARSHARIFF-BALIA	D/C	0	338	0.0	4.5	-4.5	
11		MOTIHARI-GORAKHPUR	D/C	0	4	0.0	0.0	0.0	
12		BIHARSHARIFF-VARANASI	D/C	0	435	0.0	5.2	-5.2	
13	220 kV	PUSAULI-SAHUPURI	S/C	2	74	0.0	0.5	-0.5	
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	75.4	-75.0
Import/Export of ER (With WR)									
18	765 kV	JHARSUGUDA-DHARAMJAIGARH	Q/C	1078	0	15.9	0.0	15.9	
19		NEW RANCHI-DHARAMJAIGARH	D/C	364	431	0.0	0.4	-0.4	
20		JHARSUGUDA-DURG	D/C	22	279	0.0	2.8	-2.8	
21	400 kV	JHARSUGUDA-RAIGARH	Q/C	236	232	0.0	0.5	-0.5	
22		RANCHI-SIPAT	D/C	158	133	0.5	0.0	0.5	
23	220 kV	BUDHIPADAR-RAIGARH	S/C	0	116	0.0	1.7	-1.7	
24		BUDHIPADAR-KORBA	D/C	137	1	1.6	0.0	1.6	
						ER-WR	18.1	5.3	12.8
Import/Export of ER (With SR)									
25	765 kV	ANGUL-SRIKAKULAM	D/C	0.0	1940.0	0.0	32.3	-32.3	
26	HVDC	JEYPORE-GAZUWAKA B/B	D/C	0.0	535.0	0.0	12.4	-12.4	
27	LINK	TALCHER-KOLAR BIPOLE	D/C	0.0	1981.0	0.0	41.8	-41.8	
28	400 kV	TALCHER-I/C	D/C	657.0	989.0	0.0	6.6	-6.6	
29	220 kV	BALIMELA-UPPER-SILERRU	S/C	1.0	0.0	0.0	0.0	0.0	
						ER-SR	0.0	86.5	-86.5
Import/Export of ER (With NER)									
30	400 kV	BINAGURI-BONGAIGAON	D/C	344	56	4.7	0.0	5	
31		ALIPURDUAR-BONGAIGAON	D/C	387	66	5.1	0.0	5	
32	220 kV	ALIPURDUAR-SALAKATI	D/C	73	33	0.8	0.0	1	
						ER-NER	10.7	0.0	10.7
Import/Export of NER (With NR)									
33	HVDC	BISWANATH CHARIALI-AGRA	-	470	0	11.7	0.0	11.7	
						NER-NR	11.7	0.0	11.7
Import/Export of WR (With NR)									
34	HVDC	CHAMPA-KURUKSHETRA	D/C	0	902	0.0	19.3	-19.3	
35		V'CHAL B/B	D/C	244	0	6.0	0.0	6.0	
36		APL -MHG	D/C	0	1270	0.0	31.6	-31.6	
37	765 kV	GWALIOR-AGRA	D/C	0	2119	0.0	34.8	-34.8	
38		PHAGI-GWALIOR	D/C	0	1700	0.0	21.1	-21.1	
39		JABALPUR-ORAI	D/C	465	741	0.0	25.5	-25.5	
40		GWALIOR-ORAI	S/C	595	0	9.4	0.0	9.4	
41		SATNA-ORAI	S/C	0	1266	0.0	27.0	-27.0	
42		CHITTORGARH-BANASKANTHA	D/C	17	862	0.0	5.3	-5.3	
43		ZERDA-KANKROLI	S/C	105	150	0.5	0.0	0.5	
44	400 kV	ZERDA -BHINMAL	S/C	205	268	0.8	0.0	0.8	
45		V'CHAL -RIHAND	S/C	986	0	22.5	0.0	22.5	
46		RAPP-SHUJALPUR	D/C	262	178	0	1	-1	
47	220 kV	BHANPURA-RANPUR	S/C	26	128	1.2	0.0	1.2	
48		BHANPURA-MORAK	S/C	35	112	0.1	1.2	-1.1	
49		MEHGAON-AURAIYA	S/C	78	4	0.8	0.0	0.8	
50		MALANPUR-AURAIYA	S/C	48	29	0.3	0.1	0.2	
51	132kV	GWALIOR-SAWAI MADHOPUR	S/C	0	0	0.0	0.0	0.0	
						WR-NR	41.5	166.8	-125.3
Import/Export of WR (With SR)									
52	HVDC	BHADRAWATI B/B	-	0	809	0.0	14.8	-14.8	
53	LINK	BARSUR-L.SILERU	-	0	0	0.0	0.0	0.0	
54	765 kV	SOLAPUR-RAICHUR	D/C	491	1473	0.7	15.3	-14.6	
55		WARDHA-NIZAMABAD	D/C	1282	2077	0.0	31.5	-31.5	
56	400 kV	KOLHAPUR-KUDGI	D/C	715	0	10.4	0.0	10.4	
57		KOLHAPUR-CHIKODI	D/C	0	0	0.0	0.0	0.0	
58	220 kV	PONDA-AMBEWADI	S/C	0	74	0.0	1.4	-1.4	
59		XELDEM-AMBEWADI	S/C	0	80	1.5	0.0	1.5	
						WR-SR	12.7	63.1	-50.4
TRANSNATIONAL EXCHANGE									
60		BHUTAN						7.2	
61		NEPAL						-2.4	
62		BANGLADESH						-6.4	