



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: 24thNov 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., डोंगतेह, 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 23.11.2019.

महोदय/Dear Sir,

आई०ई०जी०सी०-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 23-नवम्बर-2019 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 23rd 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 24-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)	43243	47722	37133	18400	2334	148832
Peak Shortage (MW)	493	0	0	0	37	530
Energy Met (MU)	867	1123	881	343	41	3255
Hydro Gen (MU)	129	48	85	39	11	311
Wind Gen (MU)	22	30	49	-----	-----	101
Solar Gen (MU)*	24.72	19.7	87.11	1.87	0.04	133
Energy Shortage (MU)	11.9	0.0	0.0	0.0	1.1	12.9
Maximum Demand Met during the day (MW) & time (from NLDC SCADA)	43754 18:38	50584 11:26	40709 18:31	18483 17:51	2437 17:46	153024 18:24

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	0.028	0.00	0.00	1.11	1.11	72.47	26.42

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	5282	0	102.7	38.4	-2.1	61	0.0
	Haryana	5704	0	114.6	93.2	0.8	235	0.0
	Rajasthan	11815	0	220.6	59.7	-1.1	320	0.0
	Delhi	3280	0	60.4	49.1	-0.8	264	0.0
	UP	14295	0	260.0	118.2	1.3	966	1.7
	Uttarakhand	1773	0	34.7	22.4	0.5	104	0.0
	HP	1524	0	28.2	19.9	-0.4	98	0.0
	J&K	2067	517	43.0	37.4	0.2	201	10.2
	Chandigarh	190	0	3.3	3.3	0.0	21	0.0
WR	Chhattisgarh	3370	0	71.2	25.9	-0.6	285	0.0
	Gujarat	15608	0	331.3	92.6	1.2	562	0.0
	MP	12522	0	245.0	147.9	-1.1	419	0.0
	Maharashtra	20036	0	431.0	134.1	-2.5	591	0.0
	Goa	541	0	13.0	12.3	0.1	104	0.0
	DD	330	0	7.4	6.7	0.7	55	0.0
	DNH	787	0	18.3	18.3	0.0	53	0.0
	Essar steel	306	0	5.8	5.3	0.5	295	0.0
	Andhra Pradesh	8000	0	169.3	68.9	-0.3	461	0.0
SR	Telangana	8414	0	177.5	63.9	-0.8	367	0.0
	Karnataka	10104	0	188.0	40.6	0.7	567	0.0
	Kerala	3446	0	72.0	47.7	2.1	237	0.0
	Tamil Nadu	11809	0	267.5	154.8	0.7	584	0.0
	Pondy	352	0	6.9	7.4	-0.5	29	0.0
	Bihar	4075	0	67.6	64.1	-0.5	300	0.0
ER	DVC	3047	0	61.4	-34.3	0.9	200	0.0
	Jharkhand	1245	0	24.6	18.0	-1.2	31	0.0
	Odisha	4016	0	73.8	8.6	0.0	200	0.0
	West Bengal	6365	0	113.9	32.8	0.4	150	0.0
	Sikkim	125	0	1.9	1.6	0.3	40	0.0
	NER	Arunachal Pradesh	109	2	2.1	2.0	-0.1	33
Assam		1366	21	23.3	17.6	0.2	93	1.0
Manipur		186	1	2.5	2.5	-0.1	26	0.0
Meghalaya		372	0	6.2	3.0	0.4	52	0.0
Mizoram		99	0	1.8	0.5	0.3	25	0.0
Nagaland		124	2	2.1	2.0	-0.2	18	0.0
Tripura		219	1	3.6	2.0	-0.4	43	0.0

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

	Bhutan	Nepal	Bangladesh
Actual(MU)	7.6	-1.2	-12.9
Day peak (MW)	542.6	-186.0	-917.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	178.9	-158.4	86.1	-104.3	-2.0	0.3
Actual(MU)	180.1	-157.3	88.7	-113.2	-2.3	-3.8
O/D/U/D(MU)	1.2	1.1	2.7	-8.9	-0.3	-4.2

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	Total
Central Sector	5222	19969	7772	1790	584	35337
State Sector	13477	17042	10053	6010	11	46593
Total	18699	37011	17825	7800	596	81930

G. Sourcewise generation (MU)

	NR	WR	SR	ER	NER	All India
Coal	444	1081	415	424	12	2376
Lignite	19	16	46	0	0	81
Hydro	129	48	85	39	11	311
Nuclear	30	28	55	0	0	113
Gas, Naptha & Diesel	19	62	16	0	25	123
RES (Wind, Solar, Biomass & Others)	69	61	178	2	0	309
Total	709	1296	795	464	48	3312

Share of RES in total generation (%)	9.67	4.71	22.34	0.41	0.08	9.33
Share of Non-fossil fuel (Hydro, Nuclear and RES) in total generation (%)	32.06	10.53	39.97	8.71	22.18	22.12

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.019
Based on State Max Demands	1.065

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 :	24-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	834	0.0	12.4	-12.4	
2		SASARAM-FATEHPUR	S/C	0	611	0.0	7.8	-7.8	
3		GAYA-BALIA	S/C	0	419	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	4.8	-4.8	
6	400 kV	PUSAULI-VARANASI	S/C	0	141	0.0	2.4	-2.4	
7		PUSAULI -ALLAHABAD	S/C	0	150	0.0	2.2	-2.2	
8		MUZAFFARPUR-GORAKHPUR	D/C	0	996	0.0	16.2	-16.2	
9		PATNA-BALIA	Q/C	0	1086	0.0	21.6	-21.6	
10		BIHARSHARIFF-BALIA	D/C	0	340	0.0	6.2	-6.2	
11		MOTIHARI-GORAKHPUR	D/C	2	5	0.0	0.0	0.0	
12		BIHARSHARIFF-VARANASI	D/C	0	355	0.0	4.6	-4.6	
13	220 kV	PUSAULI-SAHUPURI	S/C	0	80	0.0	1.3	-1.3	
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	87.0	-86.6
Import/Export of ER (With WR)									
18	765 kV	JHARSUGUDA-DHARAMJAIGARH	Q/C	1077	0	13.3	0.0	13.3	
19		NEW RANCHI-DHARAMJAIGARH	D/C	379	534	0.4	0.0	0.4	
20		JHARSUGUDA-DURG	D/C	0	276	0.0	2.9	-2.9	
21	400 kV	JHARSUGUDA-RAIGARH	Q/C	106	291	0.0	1.7	-1.7	
22		RANCHI-SIPAT	D/C	143	162	0.6	0.0	0.6	
23	220 kV	BUDHIPADAR-RAIGARH	S/C	0	221	0.0	2.6	-2.6	
24		BUDHIPADAR-KORBA	D/C	63	121	0.0	0.4	-0.4	
						ER-WR	14.2	7.6	6.6
Import/Export of ER (With SR)									
25	765 kV	ANGUL-SRIKAKULAM	D/C	0.0	1766.0	0.0	31.3	-31.3	
26	HVDC	JEYPORE-GAZUWAKA B/B	D/C	0.0	583.0	0.0	13.6	-13.6	
27	LINK	TALCHER-KOLAR BIPOLE	D/C	0.0	1981.0	0.0	33.3	-33.3	
28	400 kV	TALCHER-I/C	D/C	362.0	838.0	0.0	2.6	-2.6	
29	220 kV	BALIMELA-UPPER-SILERRU	S/C	1.0	0.0	0.0	0.0	0.0	
						ER-SR	0.0	78.2	-78.2
Import/Export of ER (With NER)									
30	400 kV	BINAGURI-BONGAIGAON	D/C	266	80	4.5	0.0	4	
31		ALIPURDUAR-BONGAIGAON	D/C	356	0	4.4	0.0	4	
32	220 kV	ALIPURDUAR-SALAKATI	D/C	26	0	0.6	0.0	1	
						ER-NER	9.4	0.0	9.4
Import/Export of NER (With NR)									
33	HVDC	BISWANATH CHARIALI-AGRA	-	366	0	7.1	0.0	7.1	
						NER-NR	7.1	0.0	7.1
Import/Export of WR (With NR)									
34	HVDC	CHAMPA-KURUKSHETRA	D/C	0	352	0.0	11.5	-11.5	
35		V'CHAL B/B	D/C	88	0	2.5	0.0	2.5	
36		APL -MHG	D/C	0	1457	0.0	27.9	-27.9	
37	765 kV	GWALIOR-AGRA	D/C	0	1898	0.0	35.6	-35.6	
38		PHAGI-GWALIOR	D/C	0	1240	0.0	20.2	-20.2	
39		JABALPUR-ORAI	D/C	520	716	0.0	23.8	-23.8	
40		GWALIOR-ORAI	S/C	555	0	10.8	0.0	10.8	
41		SATNA-ORAI	S/C	0	1231	0.0	25.9	-25.9	
42		CHITTORGARH-BANASKANTHA	D/C	341	641	0.0	3.5	-3.5	
43		ZERDA-KANKROLI	S/C	127	70	1.3	0.1	1.1	
44	400 kV	ZERDA -BHINMAL	S/C	137	189	0.8	0.8	0.0	
45		V'CHAL -RIHAND	S/C	985	0	22.5	0.0	22.5	
46	220 kV	RAPP-SHUJALPUR	D/C	185	64	1	0	1	
47		BHANPURA-RANPUR	S/C	22	37	0.1	0.3	-0.2	
48		BHANPURA-MORAK	S/C	43	49	0.2	0.4	-0.1	
49		MEHGAON-AURAIYA	S/C	126	0	1.8	0.0	1.8	
50		MALANPUR-AURAIYA	S/C	71	10	0.7	0.0	0.7	
51	132kV	GWALIOR-SAWAI MADHOPUR	S/C	0	0	0.0	0.0	0.0	
						WR-NR	41.6	150.1	-108.5
Import/Export of WR (With SR)									
52	HVDC	BHADRAWATI B/B	-	0	1006	0.0	11.7	-11.7	
53	LINK	BARSUR-L.SILERU	-	0	0	0.0	0.0	0.0	
54	765 kV	SOLAPUR-RAICHUR	D/C	940	1650	3.3	15.8	-12.6	
55		WARDHA-NIZAMABAD	D/C	569	2173	0.0	31.4	-31.4	
56	400 kV	KOLHAPUR-KUDGI	D/C	1115	0	12.8	0.0	12.8	
57	220 kV	KOLHAPUR-CHIKODI	D/C	0	0	0.0	0.0	0.0	
58		PONDA-AMBEWADI	S/C	0	70	0.0	1.4	-1.4	
59		XELDEM-AMBEWADI	S/C	0	78	1.5	0.0	1.5	
						WR-SR	17.7	60.3	-42.6
TRANSNATIONAL EXCHANGE									
60		BHUTAN						7.6	
61		NEPAL						-1.2	
62		BANGLADESH						-12.9	