National Load Despatch Centre
राष्ट्रीय भार प्रेषण केंद्र
POWER SYSTEM OPERATION CORPORATION LIMITED
पॉवर 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: 23rd 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., डोंगतिएह, 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 22.11.2019.

महोदय/Dear Sir,

आई०ई०जी०सी०-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 22-नवम्बर-2019 की अखिल भारतीय प्रणाली की दैनिक ग्रिड निष्पादन रिपोर्ट रा०भा०प्रे०के० की वेबसाइट पर उप्लब्ध 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 22nt 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** **23-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)	43968	47963	39388	18572	2349	152240
Peak Shortage (MW)	536	0	0	0	44	580
Energy Met (MU)	881	1125	899	346	42	3292
Hydro Gen (MU)	127	41	96	45	8	318
Wind Gen (MU)	18	20	44	----------	----------	81
Solar Gen (MU)*	22.29	21.29	73.49	1.99	0.24	119
Energy Shortage (MU)	11.6	0.0	0.0	0.0	1.3	12.9
Maximum Demand Met during the day (MW) & time (from NLDC SCADA)	44308 18:31	51126 11:03	42177 07:44	18633 17:57	2519 18:24	155347 18:28

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	0.027	0.00	0.00	3.17	3.17	80.41	16.42

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	5330	0	106.3	41.2	-2.2	203	0.0
	Haryana	5849	0	116.3	102.4	0.7	155	0.0
	Rajasthan	11944	0	218.7	58.3	-0.1	584	0.0
	Delhi	3484	0	64.0	52.9	-0.3	198	0.0
	UP	14651	0	265.9	119.9	-0.7	424	0.6
	Uttarakhand	1774	0	34.5	20.1	0.2	123	0.0
	HP	1565	0	27.3	19.8	-0.7	46	0.4
	J&K	2145	536	44.5	39.2	0.0	201	10.5
	Chandigarh	200	0	3.4	3.3	0.1	27	0.0
WR	Chhattisgarh	3481	0	72.3	29.5	-0.7	207	0.0
	Gujarat	15570	0	334.4	91.3	7.5	748	0.0
	MP	12563	0	244.0	153.4	-0.1	419	0.0
	Maharashtra	20186	0	429.8	133.0	-3.6	572	0.0
	Goa	541	0	13.0	12.6	-0.1	36	0.0
	DD	332	0	7.4	6.8	0.6	43	0.0
	DNH	785	0	18.3	18.4	0.0	39	0.0
	Essar steel	297	0	5.4	5.3	0.1	295	0.0
SR	Andhra Pradesh	7716	0	169.6	69.6	-0.5	525	0.0
	Telangana	9408	0	190.4	79.1	-1.7	377	0.0
	Karnataka	9971	0	186.4	43.0	0.5	764	0.0
	Kerala	3450	0	71.9	48.7	1.8	244	0.0
	Tamil Nadu	13233	0	273.6	156.6	1.5	560	0.0
	Pondy	366	0	7.2	7.4	-0.2	44	0.0
ER	Bihar	4048	0	68.7	62.9	-1.3	487	0.0
	DVC	2890	0	62.7	-35.2	-0.9	291	0.0
	Jharkhand	1210	0	24.2	17.1	-0.8	31	0.0
	Odisha	4016	0	74.1	7.9	-0.1	240	0.0
	West Bengal	6509	0	114.2	30.7	3.4	399	0.0
	Sikkim	129	0	1.9	1.3	0.6	45	0.0
NER	Arunachal Pradesh	113	2	2.0	2.1	-0.3	28	0.0
	Assam	1442	15	23.7	18.0	0.2	82	1.3
	Manipur	172	3	2.4	2.6	-0.1	47	0.0
	Meghalaya	361	0	6.0	3.0	0.3	46	0.0
	Mizoram	96	1	1.7	0.7	0.3	68	0.0
	Nagaland	114	2	2.1	2.0	-0.2	18	0.0
	Tripura	250	1	3.6	2.0	-0.5	18	0.0

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

	Bhutan	Nepal	Bangladesh
Actual(MU)	10.4	-1.6	-10.6
Day peak (MW)	628.8	-296.5	-854.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	202.8	-192.7	95.1	-103.2	-2.0	0.1
Actual(MU)	199.5	-191.4	100.2	-108.8	-3.0	-3.5
O/D/U/D(MU)	-3.3	1.3	5.0	-5.6	-1.0	-3.6

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	Total
Central Sector	5222	18396	7772	2315	563	34268
State Sector	13448	16941	9653	5510	11	45563
Total	18670	35336	17425	7825	575	79831

G. Sourcewise generation (MU)

	NR	WR	SR	ER	NER	All India
Coal	443	1120	434	418	13	2428
Lignite	21	15	49	0	0	84
Hydro	127	41	96	45	8	318
Nuclear	28	28	55	0	0	111
Gas, Naptha & Diesel	21	77	16	0	25	139
RES (Wind, Solar, Biomass & Others)	61	48	157	2	0	268
Total	702	1329	806	465	47	3349

Share of RES in total generation (%)	8.75	3.60	19.48	0.43	0.51	8.02
Share of Non-fossil fuel (Hydro, Nuclear and RES) in total generation (%)	30.90	8.81	38.22	10.14	18.57	20.84

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.022
Based on State Max Demands	1.070

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.

कार्यपालक निदेशक (रा० भा० प्रे० के०)

INTER-REGIONAL EXCHANGES

Date of Reporting : **23-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	801	0.0	12.0	-12.0
2		SASARAM-FATEHPUR	S/C	0	461	0.0	6.7	-6.7
3		GAYA-BALIA	S/C	0	462	0.0	7.6	-7.6
4	HVDC	ALIPURDUAR-AGRA	-	0	0	0.0	0.0	0.0
5		PUSAULI B/B	S/C	0	196	0.0	4.9	-4.9
6	400 kV	PUSAULI-VARANASI	S/C	0	150	0.0	2.7	-2.7
7		PUSAULI -ALLAHABAD	S/C	0	128	0.0	2.1	-2.1
8		MUZAFFARPUR-GORAKHPUR	D/C	0	1090	0.0	16.8	-16.8
9		PATNA-BALIA	Q/C	0	1202	0.0	22.9	-22.9
10		BIHARSHARIFF-BALIA	D/C	0	455	0.0	7.3	-7.3
11		MOTIHARI-GORAKHPUR	D/C	0	7	0.0	0.0	0.0
12		BIHARSHARIFF-VARANASI	D/C	0	357	0.0	4.3	-4.3
13	220 kV	PUSAULI-SAHUPURI	S/C	0	90	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**	**88.6**	**-88.2**
Import/Export of ER (With WR)								
18	765 kV	JHARSUGUDA-DHARAMJAIGARH	Q/C	1365	54	15.4	0.0	15.4
19		NEW RANCHI-DHARAMJAIGARH	D/C	465	557	0.5	0.0	0.5
20		JHARSUGUDA-DURG	D/C	61	298	0.0	1.7	-1.7
21	400 kV	JHARSUGUDA-RAIGARH	Q/C	122	265	0.0	1.1	-1.1
22		RANCHI-SIPAT	D/C	185	150	0.9	0.0	0.9
23	220 kV	BUDHIPADAR-RAIGARH	S/C	0	131	0.0	2.1	-2.1
24		BUDHIPADAR-KORBA	D/C	48	61	0.3	0.3	0.0
					ER-WR	**17.1**	**5.1**	**12.1**
Import/Export of ER (With SR)								
25	765 kV	ANGUL-SRIKAKULAM	D/C	0.0	1843.0	0.0	34.1	-34.1
26	HVDC LINK	JEYPORE-GAZUWAKA B/B	D/C	0.0	582.0	0.0	10.7	-10.7
27		TALCHER-KOLAR BIPOLE	D/C	0.0	2479.0	0.0	38.9	-38.9
28	400 kV	TALCHER-I/C	D/C	642.0	1049.0	0.0	3.3	-3.3
29	220 kV	BALIMELA-UPPER-SILERRU	S/C	1.0	0.0	0.0	0.0	0.0
					ER-SR	**0.0**	**83.6**	**-83.6**
Import/Export of ER (With NER)								
30	400 kV	BINAGURI-BONGAIGAON	D/C	295	27	4.9	0.0	5
31		ALIPURDUAR-BONGAIGAON	D/C	356	0	5.0	0.0	5
32	220 kV	ALIPURDUAR-SALAKATI	D/C	36	0	0.7	0.0	1
					ER-NER	**10.6**	**0.0**	**10.6**
Import/Export of NER (With NR)								
33	HVDC	BISWANATH CHARIALI-AGRA	-	362	0	7.7	0.0	7.7
					NER-NR	**7.7**	**0.0**	**7.7**
Import/Export of WR (With NR)								
34	HVDC	CHAMPA-KURUKSHETRA	D/C	0	1851	0.0	29.1	-29.1
35		V'CHAL B/B	D/C	90	0	2.5	0.0	2.5
36		APL -MHG	D/C	0	1458	0.0	32.4	-32.4
37	765 kV	GWALIOR-AGRA	D/C	0	1835	0.0	31.0	-31.0
38		PHAGI-GWALIOR	D/C	0	1530	0.0	20.9	-20.9
39		JABALPUR-ORAI	D/C	602	734	0.0	24.3	-24.3
40		GWALIOR-ORAI	S/C	628	0	9.7	0.0	9.7
41		SATNA-ORAI	S/C	0	1283	0.0	26.4	-26.4
42		CHITTORGARH-BANASKANTHA	D/C	175	551	0.0	1.8	-1.8
43	400 kV	ZERDA-KANKROLI	S/C	137	86	1.5	0.1	1.4
44		ZERDA -BHINMAL	S/C	146	287	1.1	1.0	0.1
45		V'CHAL -RIHAND	S/C	987	0	22.6	0.0	22.6
46		RAPP-SHUJALPUR	D/C	294	197	1	0	1
47	220 kV	BHANPURA-RANPUR	S/C	33	50	0.1	0.2	-0.1
48		BHANPURA-MORAK	S/C	49	60	0.3	0.2	0.1
49		MEHGAON-AURAIYA	S/C	123	1	1.4	0.0	1.4
50		MALANPUR-AURAIYA	S/C	70	12	0.4	0.0	0.4
51	132kV	GWALIOR-SAWAI MADHOPUR	S/C	0	0	0.0	0.0	0.0
					WR-NR	**40.8**	**167.5**	**-126.6**
Import/Export of WR (With SR)								
52	HVDC LINK	BHADRAWATI B/B	-	0	809	0.0	10.8	-10.8
53		BARSUR-L.SILERU	-	0	0	0.0	0.0	0.0
54	765 kV	SOLAPUR-RAICHUR	D/C	467	1578	0.7	17.0	-16.3
55		WARDHA-NIZAMABAD	D/C	0	2349	0.0	37.9	-37.9
56	400 kV	KOLHAPUR-KUDGI	D/C	904	0	12.1	0.0	12.1
57	220 kV	KOLHAPUR-CHIKODI	D/C	0	0	0.0	0.0	0.0
58		PONDA-AMBEWADI	S/C	0	72	0.0	1.5	-1.5
59		XELDEM-AMBEWADI	S/C	0	81	1.7	0.0	1.7
					WR-SR	**14.4**	**67.2**	**-52.8**
TRANSNATIONAL EXCHANGE								
60		BHUTAN						**10.4**
61		NEPAL						**-1.6**
62		BANGLADESH						**-10.6**