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: 25th Nov 2020

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 24.11.2020.

महोदय/Dear Sir,

आई०ई०जी०सी०-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 24-नवंबर-2020 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 24th November 2020, 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:** **25-Nov-2020**

A. Power Supply Position at All India and Regional level

	NR	WR	SR	ER	NER	TOTAL
Demand Met during Evening Peak hrs(MW) (at 19:00 hrs; from RLDCs)	45190	50786	38266	16820	2448	153510
Peak Shortage (MW)	263	0	0	0	5	268
Energy Met (MU)	889	1202	858	342	42	3332
Hydro Gen (MU)	104	37	90	45	14	290
Wind Gen (MU)	16	18	23	-	-	58
Solar Gen (MU)*	26.81	32.68	76.64	4.37	0.12	141
Energy Shortage (MU)	3.09	0.00	0.00	0.00	0.03	3.12
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	45518	56904	41007	17496	2593	157052
Time Of Maximum Demand Met (From NLDC SCADA)	18:29	10:46	12:29	18:03	17:31	10:52

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	0.09	5.58	5.67	77.28	17.05

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	5229	263	102.7	83.6	-0.6	162	3.04
	Haryana	6043	0	120.5	113.1	0.8	296	0.01
	Rajasthan	12819	0	236.2	66.9	-0.6	365	0.00
	Delhi	3541	0	62.6	44.8	0.6	272	0.00
	UP	14111	0	245.5	92.1	-1.8	500	0.04
	Uttarakhand	1923	0	36.4	28.5	0.2	123	0.00
	HP	1659	0	30.6	23.7	-0.8	89	0.00
	J&K(UT) & Ladakh(UT)	2460	0	51.2	45.0	0.8	364	0.00
	Chandigarh	192	0	3.2	3.2	0.1	32	0.00
WR	Chhattisgarh	3466	0	74.6	17.0	-0.3	223	0.00
	Gujarat	15944	0	335.4	58.8	3.1	510	0.00
	MP	14062	0	275.9	180.6	-2.4	537	0.00
	Maharashtra	22275	0	462.6	158.2	-2.5	477	0.00
	Goa	498	0	10.3	10.0	-0.2	48	0.00
	DD	340	0	7.4	7.2	0.2	20	0.00
	DNH	797	0	18.3	17.9	0.4	58	0.00
	AMNSIL	795	0	17.4	1.2	0.1	68	0.00
SR	Andhra Pradesh	7877	0	166.8	86.6	0.8	390	0.00
	Telangana	7095	0	146.3	46.9	0.8	256	0.00
	Karnataka	10441	0	200.9	70.8	0.8	376	0.00
	Kerala	3573	0	71.2	54.5	0.7	336	0.00
	Tamil Nadu	12971	0	266.4	193.4	0.6	666	0.00
	Puducherry	315	0	5.9	6.8	-0.9	0	0.00
ER	Bihar	4289	0	72.5	71.6	-0.1	220	0.00
	DVC	3047	0	63.6	-50.5	-1.2	170	0.00
	Jharkhand	1327	0	24.6	17.8	-1.8	110	0.00
	Odisha	3805	0	69.6	3.5	-0.9	230	0.00
	West Bengal	5974	0	110.1	29.5	0.5	255	0.00
	Sikkim	100	0	1.5	1.7	-0.2	10	0.00
NER	Arunachal Pradesh	125	2	2.1	2.3	-0.2	24	0.01
	Assam	1465	11	23.8	20.5	0.3	111	0.00
	Manipur	219	1	2.8	2.9	0.0	55	0.01
	Meghalaya	365	1	6.3	2.7	0.2	50	0.00
	Mizoram	106	1	1.6	1.1	0.2	53	0.00
	Nagaland	134	2	2.2	1.7	0.3	55	0.01
	Tripura	232	2	3.5	2.1	-0.4	8	0.00

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

	Bhutan	Nepal	Bangladesh
Actual (MU)	11.8	-3.0	-15.3
Day Peak (MW)	528.0	-287.1	-824.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	292.0	-327.5	153.4	-121.5	3.7	0.0
Actual(MU)	281.6	-324.2	164.4	-131.5	4.2	-5.4
O/D/U/D(MU)	-10.4	3.4	11.1	-10.0	0.6	-5.4

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL
Central Sector	7300	11743	10782	3100	789	33714
State Sector	16031	15840	14207	6092	11	52180
Total	23331	27582	24989	9192	801	85894

G. Sourcewise generation (MU)

	NR	WR	SR	ER	NER	All India
Coal	389	1304	377	443	8	2520
Lignite	19	16	29	0	0	63
Hydro	104	37	90	45	14	290
Nuclear	28	33	65	0	0	126
Gas, Naptha & Diesel	21	92	13	0	21	147
RES (Wind, Solar, Biomass & Others)	63	63	135	4	0	266
Total	623	1546	707	492	43	3411
Share of RES in total generation (%)	10.17	4.09	19.02	0.88	0.28	7.79
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	31.27	8.62	40.85	9.97	33.84	19.96

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.041
Based on State Max Demands	1.080

Diversity factor = Sum of regional or state maximum demands / All India maximum demand

***Source: RLDCs for solar connected to ISTS; SLDCs for embedded solar. Limited visibility of embedded solar data.**

Executive Director-NLDC

INTER-REGIONAL EXCHANGES

Import=(+ve) /Export =(-ve) for NET (MU)

Date of Reporting: 25-Nov-2020

Sl No	Voltage Level	Line Details	No. of Circuit	Max Import (MW)	Max Export (MW)	Import (MU)	Export (MU)	NET (MU)
Import/Export of ER (With NR)								
1	HVDC	ALIPURDUAR-AGRA	2	0	351	0.0	8.2	-8.2
2	HVDC	PUSAULI B/B	-	0	299	0.0	7.1	-7.1
3	765 kV	GAYA-VARANASI	2	0	888	0.0	10.4	-10.4
4	765 kV	SASARAM-FATEHPUR	1	148	245	0.0	1.1	-1.1
5	765 kV	GAYA-BALIA	1	0	577	0.0	10.2	-10.2
6	400 kV	PUSAULI-VARANASI	1	0	246	0.0	5.2	-5.2
7	400 kV	PUSAULI -ALLAHABAD	1	0	113	0.0	1.8	-1.8
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	43	666	0.0	4.9	-4.9
9	400 kV	PATNA-BALIA	4	0	1158	0.0	17.7	-17.7
10	400 kV	BIHARSHARIFF-BALIA	2	0	555	0.0	7.5	-7.5
11	400 kV	MOTIHARI-GORAKHPUR	2	0	335	0.0	4.7	-4.7
12	400 kV	BIHARSHARIFF-VARANASI	2	146	158	0.4	0.0	0.4
13	220 kV	PUSAULI-SAHUPURI	1	63	49	0.3	0.0	0.3
14	132 kV	SONE NAGAR-RIHAND	1	0	0	0.0	0.0	0.0
15	132 kV	GARWAH-RIHAND	1	20	0	0.2	0.0	0.2
16	132 kV	KARMANASA-SAHUPURI	1	0	0	0.0	0.0	0.0
17	132 kV	KARMANASA-CHANDAULI	1	0	0	0.0	0.0	0.0
					ER-NR	0.9	78.6	-77.7
Import/Export of ER (With WR)								
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	712	987	0.0	0.5	-0.5
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	856	151	10.2	0.0	10.2
3	765 kV	JHARSUGUDA-DURG	2	131	158	0.0	0.9	-0.9
4	400 kV	JHARSUGUDA-RAIGARH	4	400	0	5.3	0.0	5.3
5	400 kV	RANCHI-SIPAT	2	313	0	4.4	0.0	4.4
6	220 kV	BUDHIPADAR-RAIGARH	1	48	87	0.0	0.3	-0.3
7	220 kV	BUDHIPADAR-KORBA	2	140	0	1.8	0.0	1.8
					ER-WR	21.7	1.7	20.0
Import/Export of ER (With SR)								
1	HVDC	JEYPORE-GAZUWAKA B/B	2	0	537	0.0	12.4	-12.4
2	HVDC	TALCHER-KOLAR BIPOLE	2	0	2381	0.0	40.6	-40.6
3	765 kV	ANGUL-SRIKAKULAM	2	0	2568	0.0	47.5	-47.5
4	400 kV	TALCHER-I/C	2	224	1040	0.0	7.5	-7.5
5	220 kV	BALIMELA-UPPER-SILERRU	1	1	0	0.0	0.0	0.0
					ER-SR	0.0	100.4	-100.4
Import/Export of ER (With NER)								
1	400 kV	BINAGURI-BONGAIGAON	2	0	428	0.0	5.8	-5.8
2	400 kV	ALIPURDUAR-BONGAIGAON	2	0	550	0.0	5.8	-5.8
3	220 kV	ALIPURDUAR-SALAKATI	2	0	111	0.0	1.5	-1.5
					ER-NER	0.0	13.2	-13.2
Import/Export of NER (With NR)								
1	HVDC	BISWANATH CHARIALI-AGRA	2	0	504	0.0	9.4	-9.4
					NER-NR	0.0	9.4	-9.4
Import/Export of WR (With NR)								
1	HVDC	CHAMPA-KURUKSHETRA	2	0	2001	0.0	44.2	-44.2
2	HVDC	VINDHYACHAL B/B	-	0	3	0.0	0.0	0.0
3	HVDC	MUNDRA-MOHINDERGARH	2	0	1917	0.0	37.4	-37.4
4	765 kV	GWALIOR-AGRA	2	0	2940	0.0	52.3	-52.3
5	765 kV	PHAGI-GWALIOR	2	0	1638	0.0	21.5	-21.5
6	765 kV	JABALPUR-ORAI	2	0	1158	0.0	36.9	-36.9
7	765 kV	GWALIOR-ORAI	1	569	0	8.4	0.0	8.4
8	765 kV	SATNA-ORAI	1	0	1547	0.0	31.7	-31.7
9	765 kV	CHITORGARH-BANASKANTHA	2	235	785	0.0	6.6	-6.6
10	400 kV	ZERDA-KANKROLI	1	85	143	0.0	0.2	-0.2
11	400 kV	ZERDA -BHINMAL	1	123	366	0.0	2.7	-2.7
12	400 kV	VINDHYACHAL -RIHAND	1	971	0	22.4	0.0	22.4
13	400 kV	RAPP-SHUJALPUR	2	130	438	0.1	3.2	-3.1
14	220 kV	BHANPURA-RANPUR	1	3	148	0.0	1.7	-1.7
15	220 kV	BHANPURA-MORAK	1	11	0	0.3	0.3	0.0
16	220 kV	MEHGAON-AURAIYA	1	84	17	0.2	0.3	-0.1
17	220 kV	MALANPUR-AURAIYA	1	49	38	0.5	0.0	0.5
18	132 kV	GWALIOR-SAWAI MADHOPUR	1	0	0	0.0	0.0	0.0
19	132 kV	RAJGHAT-LALITPUR	2	0	0	0.0	0.0	0.0
					WR-NR	31.9	238.9	-207.0
Import/Export of WR (With SR)								
1	HVDC	BHADRAWATI B/B	-	0	999	0.0	16.7	-16.7
2	HVDC	RAIGARH-PUGALUR	2	0	1499	0.0	25.7	-25.7
3	765 kV	SOLAPUR-RAICHUR	2	344	2506	0.0	33.0	-33.0
4	765 kV	WARDHA-NIZAMABAD	2	25	1973	0.0	27.1	-27.1
5	400 kV	KOLHAPUR-KUDGI	2	592	168	4.8	0.2	4.6
6	220 kV	KOLHAPUR-CHIKODI	2	0	0	0.0	0.0	0.0
7	220 kV	PONDA-AMBEWADI	1	1	0	0.0	0.0	0.0
8	220 kV	XELDEM-AMBEWADI	1	0	46	0.8	0.0	0.8
					WR-SR	5.6	102.8	-97.1

INTERNATIONAL EXCHANGES

State	Region	Line Name	Max (MW)	Min (MW)	Avg (MW)	Energy Exchange (MU)
BHUTAN	ER	400kV MANGDECHHU-ALIPURDUAR 1&2 i.e. ALIPURDUAR RECEIPT (from MANGDECHU HEP 4*180MW)	180	0	170	4.1
	ER	400kV TALA-BINAGURI 1,2,4 (& 400kV MALBASE - BINAGURI) i.e. BINAGURI RECEIPT (from TALA HEP (6*170MW)	287	266	287	7.0
	ER	220kV CHUKHA-BIRPARA 1&2 (& 220kV MALBASE - BIRPARA) i.e. BIRPARA RECEIPT (from CHUKHA HEP 4*84MW)	95	0	14	0.3
	NER	132KV-GEYLEGPHU - SALAKATI	-11	8	-3	-0.1
	NER	132kV Motanga-Rangia	-22	-5	-15	-0.4
NEPAL	NR	132KV-TANAKPUR(NH) - MAHENDRANAGAR(PG)	-13	0	-5	-0.1
	ER	400KV-MUZAFFARPUR - DHALKEBAR DC	-152	0	-67	-1.6
	ER	132KV-BIHAR - NEPAL	-122	-1	-53	-1.3
BANGLADESH	ER	BHERAMARA HVDC(BANGLADESH)	-718	-402	-551	-13.2
	NER	132KV-SURAJMANI NAGAR - COMILLA(BANGLADESH)-1	53	0	-43	-1.0
	NER	132KV-SURAJMANI NAGAR - COMILLA(BANGLADESH)-2	53	0	-43	-1.0