



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: 2nd 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., 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 01.11.2020.

महोदय/Dear Sir,

आई०ई०जी०सी०-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 01-नवंबर 2020 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 1st 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: 02-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)	42791	47273	36847	20700	2589	150200
Peak Shortage (MW)	240	0	0	0	13	253
Energy Met (MU)	897	1130	866	398	45	3336
Hydro Gen (MU)	121	23	118	78	17	357
Wind Gen (MU)	3	31	17	-	-	51
Solar Gen (MU)*	32.33	27.83	98.44	4.47	0.09	163
Energy Shortage (MU)	0.1	0.0	0.0	0.0	0.1	0.2
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	43272	50065	39908	20700	2704	150416
Time Of Maximum Demand Met (From NLDC SCADA)	10:23	11:06	10:56	18:54	17:35	11:20

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	0.021	0.00	0.00	2.43	2.43	82.54	15.03

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	5663	0	105.9	86.5	-0.9	163	0.0
	Haryana	5218	0	115.0	103.7	0.8	184	0.0
	Rajasthan	12301	0	236.2	87.5	0.8	343	0.0
	Delhi	3114	0	59.5	42.6	-0.8	175	0.0
	UP	14562	240	273.2	108.3	-2.5	257	0.1
	Uttarakhand	1593	0	31.5	21.7	0.8	164	0.0
	HP	1430	0	27.2	17.9	0.5	376	0.0
	J&K(UT) & Ladakh(UT)	2393	0	46.2	38.2	-0.1	480	0.0
	Chandigarh	152	0	2.7	2.7	0.0	13	0.0
	Chhattisgarh	3434	0	72.8	24.0	-0.7	311	0.0
WR	Gujarat	15208	0	337.7	71.7	3.1	609	0.0
	MP	12770	0	259.2	163.1	-3.4	255	0.0
	Maharashtra	18373	0	408.9	136.2	-1.9	626	0.0
	Goa	424	0	9.6	8.6	0.4	41	0.0
	DD	305	0	6.7	6.7	0.0	19	0.0
	DNH	748	0	17.5	17.8	-0.3	33	0.0
	AMNSIL	852	0	17.3	2.2	0.2	255	0.0
	Andhra Pradesh	8660	0	177.5	80.5	-0.3	261	0.0
	Telangana	6984	0	149.6	43.2	-3.2	320	0.0
	Karnataka	8625	0	167.9	62.5	1.0	547	0.0
SR	Kerala	3278	0	67.1	48.5	0.4	208	0.0
	Tamil Nadu	13548	0	296.8	176.7	-1.5	366	0.0
	Puducherry	338	0	7.2	7.4	-0.2	38	0.0
	Bihar	4843	0	83.3	82.8	-0.3	381	0.0
	DVC	3303	0	62.3	-45.0	0.2	222	0.0
	Jharkhand	1465	0	26.4	19.6	-1.5	91	0.0
	Odisha	4610	0	88.3	18.2	0.1	374	0.0
	West Bengal	7169	0	136.4	35.8	2.8	473	0.0
	Sikkim	87	0	1.1	1.3	-0.2	42	0.0
	NER	Arunachal Pradesh	112	1	2.0	2.0	-0.1	34
Assam		1661	10	27.3	24.4	-0.1	140	0.0
Manipur		191	1	2.6	2.4	0.3	25	0.0
Meghalaya		331	2	5.6	2.2	-0.3	39	0.0
Mizoram		95	0	1.5	0.7	0.5	19	0.0
Nagaland		140	1	2.4	2.2	0.0	10	0.0
Tripura		243	3	4.1	4.2	-0.5	20	0.0

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

	Bhutan	Nepal	Bangladesh
Actual (MU)	23.6	-0.8	-25.0
Day Peak (MW)	786.0	-232.3	-1061.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	270.2	-261.4	92.2	-100.7	-0.3	0.0
Actual(MU)	267.4	-258.5	96.9	-104.7	-1.6	-0.5
O/D/U/D(MU)	-2.8	2.8	4.8	-4.0	-1.3	-0.5

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL
Central Sector	7210	14655	9452	1770	660	33747
State Sector	15841	13966	13316	6057	11	49191
Total	23051	28621	22768	7827	671	82938

G. Sourcewise generation (MU)

	NR	WR	SR	ER	NER	All India
Coal	402	1210	399	460	7	2478
Lignite	25	13	29	0	0	67
Hydro	121	23	119	78	17	357
Nuclear	28	21	66	0	0	114
Gas, Naptha & Diesel	22	86	16	0	28	153
RES (Wind, Solar, Biomass & Others)	46	59	151	4	0	260
Total	644	1412	780	542	52	3429

Share of RES in total generation (%)	7.16	4.18	19.33	0.82	0.17	7.59
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	30.28	7.24	42.94	15.15	33.51	21.33

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.041
Based on State Max Demands	1.092

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: 02-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	700	0.0	17.0	-17.0	
2	HVDC	PUSAULI B/B	-	0	300	0.0	7.2	-7.2	
3	765 kV	GAYA-VARANASI	2	0	778	0.0	9.6	-9.6	
4	765 kV	SASARAM-FATEHPUR	1	64	348	0.0	2.5	-2.5	
5	765 kV	GAYA-BALIA	1	0	447	0.0	8.2	-8.2	
6	400 kV	PUSAULI-VARANASI	1	0	245	0.0	4.8	-4.8	
7	400 kV	PUSAULI-ALLAHABAD	1	0	146	0.0	2.2	-2.2	
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	0	611	0.0	5.9	-5.9	
9	400 kV	PATNA-BALIA	4	0	810	0.0	12.5	-12.5	
10	400 kV	BIHARSHARIFF-BALIA	2	0	333	0.0	4.2	-4.2	
11	400 kV	MOTIHARI-GORAKHPUR	2	0	275	0.0	5.1	-5.1	
12	400 kV	BIHARSHARIFF-VARANASI	2	167	218	0.8	0.0	0.8	
13	220 kV	PUSAULI-SAHUPURI	1	0	81	0.0	1.1	-1.1	
14	132 kV	SONE NAGAR-RIHAND	1	0	0	0.0	0.0	0.0	
15	132 kV	GARWAH-RIHAND	1	20	0	0.4	0.0	0.4	
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	1.2	80.2	-79.0
Import/Export of ER (With WR)									
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	1328	544	6.1	0.0	6.1	
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	782	406	8.9	0.0	8.9	
3	765 kV	JHARSUGUDA-DURG	2	88	305	0.0	1.3	-1.3	
4	400 kV	JHARSUGUDA-RAIGARH	4	295	171	3.2	0.0	3.2	
5	400 kV	RANCHI-SIPAT	2	344	133	3.5	0.0	3.5	
6	220 kV	BUDHIPADAR-RAIGARH	1	0	153	0.0	1.9	-1.9	
7	220 kV	BUDHIPADAR-KORBA	2	150	0	2.2	0.0	2.2	
						ER-WR	23.9	3.2	20.7
Import/Export of ER (With SR)									
1	HVDC	JEYPORE-GAZUWAKA B/B	2	0	695	0.0	11.5	-11.5	
2	HVDC	TALCHER-KOLAR BIPOLE	2	0	1488	0.0	29.7	-29.7	
3	765 kV	ANGUL-SRIKAKULAM	2	0	2734	0.0	42.5	-42.5	
4	400 kV	TALCHER-I/C	2	1443	117	15.6	0.0	15.6	
5	220 kV	BALIMELA-UPPER-SILERRU	1	1	0	0.0	0.0	0.0	
						ER-SR	0.0	83.6	-83.6
Import/Export of ER (With NER)									
1	400 kV	BINAGURI-BONGAIGAON	2	0	451	0.0	6.4	-6.4	
2	400 kV	ALIPURDUAR-BONGAIGAON	2	0	86	0.0	5.9	-5.9	
3	220 kV	ALIPURDUAR-SALAKATI	2	0	82	0.0	1.6	-1.6	
						ER-NER	0.0	13.9	-13.9
Import/Export of NER (With NR)									
1	HVDC	BISWANATH CHARIALI-AGRA	2	0	702	0.0	17.0	-17.0	
						NER-NR	0.0	17.0	-17.0
Import/Export of WR (With NR)									
1	HVDC	CHAMPA-KURUKSHETRA	2	0	1502	0.0	31.3	-31.3	
2	HVDC	VINDHYACHAL B/B	-	447	0	12.1	0.0	12.1	
3	HVDC	MUNDRA-MOHINDERGARH	2	0	1461	0.0	35.6	-35.6	
4	765 kV	GWALIOR-AGRA	2	0	2552	0.0	43.4	-43.4	
5	765 kV	PHAGI-GWALIOR	2	0	1653	0.0	24.9	-24.9	
6	765 kV	JABALPUR-ORAI	2	0	1020	0.0	38.4	-38.4	
7	765 kV	GWALIOR-ORAI	1	608	0	9.3	0.0	9.3	
8	765 kV	SATNA-ORAI	1	0	1502	0.0	31.6	-31.6	
9	765 kV	CHITORGARH-BANASKANTHA	2	0	719	0.0	10.1	-10.1	
10	400 kV	ZERDA-KANKROLI	1	31	153	0.0	1.0	-1.0	
11	400 kV	ZERDA-BHINMAL	1	0	332	0.0	3.3	-3.3	
12	400 kV	VINDHYACHAL-RIHAND	1	978	0	22.5	0.0	22.5	
13	400 kV	RAPP-SHUALPUR	2	0	408	0.0	5.1	-5.1	
14	220 kV	BHANPURA-RANPUR	1	0	152	0.0	2.0	-2.0	
15	220 kV	BHANPURA-MORAK	1	11	0	0.1	0.4	-0.2	
16	220 kV	MEHGAON-AURAIYA	1	109	0	0.4	0.0	0.4	
17	220 kV	MALANPUR-AURAIYA	1	68	9	1.2	0.0	1.2	
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	45.7	227.0	-181.3
Import/Export of WR (With SR)									
1	HVDC	BHADRAWATI B/B	-	0	904	0.0	14.6	-14.6	
2	HVDC	RAIGARH-PUGALUR	2	0	1004	0.0	23.6	-23.6	
3	765 kV	SOLAPUR-RAICHUR	2	938	2084	0.0	13.2	-13.2	
4	765 kV	WARDHA-NIZAMABAD	2	386	2069	0.0	13.1	-13.1	
5	400 kV	KOLHAPUR-KUDGI	2	783	0	8.8	0.0	8.8	
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	43	0.8	0.0	0.8	
						WR-SR	9.6	64.4	-54.8

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 MANGDECHHU HEP 4*180MW)	262	0	256	6.2
	ER	400kV TALA-BINAGURI 1,2,4 (& 400kV MALBASE - BINAGURI) i.e. BINAGURI RECEIPT (from TALA HEP (6*170MW))	443	408	443	10.8
	ER	220kV CHUKHA-BIRPARA 1&2 (& 220kV MALBASE - BIRPARA) i.e. BIRPARA RECEIPT (from CHUKHA HEP 4*84MW)	146	139	146	5.4

	NER	132KV-GEYLEGPHU - SALAKATI	-28	-8	-19	-0.5
	NER	132kV Motanga-Rangia	-38	-14	-31	-0.8
NEPAL	NR	132KV-TANAKPUR(NH) - MAHENDRANAGAR(PG)	-37	0	-7	-0.2
	ER	132KV-BIHAR - NEPAL	-128	-1	-19	-0.5
	ER	220KV-MUZAFFARPUR - DHALKEBAR DC	-67	-2	-7	-0.2
BANGLADESH	ER	BHERAMARA HVDC(BANGLADESH)	-929	-928	-929	-22.3
	NER	132KV-SURAJMANI NAGAR - COMILLA(BANGLADESH)-1	66	0	-56	-1.3
	NER	132KV-SURAJMANI NAGAR - COMILLA(BANGLADESH)-2	66	0	-56	-1.3