



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: 5th 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 04.11.2020.

महोदय/Dear Sir,

आई०ई०जी०सी०-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 04-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 4th November 2020, is available at the NLDC website.

धन्यवाद,

पाँवर सिस्टम ऑपरेशन कारपोरेशन लिमिटेड
राष्ट्रीय भार प्रेषण केंद्र, नई दिल्ली



Report for previous day

Date of Reporting: 05-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)	45040	50300	40839	18482	2558	157219
Peak Shortage (MW)	350	0	50	0	8	408
Energy Met (MU)	926	1183	932	376	47	3463
Hydro Gen (MU)	116	24	127	69	14	350
Wind Gen (MU)	6	21	31	-	-	58
Solar Gen (MU)*	36.95	30.21	88.35	4.76	0.07	160
Energy Shortage (MU)	3.8	0.0	0.3	0.0	0.0	4.1
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	46073	53018	44985	19043	2733	160093
Time Of Maximum Demand Met (From NLDC SCADA)	10:25	11:18	11:58	18:37	17:32	10:44

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	0.026	0.00	0.00	3.60	3.60	82.81	13.59

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	5341	0	107.3	84.2	-0.2	166	3.0
	Haryana	5753	0	122.7	110.5	0.4	194	0.0
	Rajasthan	12821	0	244.8	94.8	1.6	453	0.0
	Delhi	3605	0	64.7	47.2	-0.1	207	0.0
	UP	14584	0	269.6	110.3	2.1	367	0.7
	Uttarakhand	1827	0	35.6	26.8	0.8	135	0.1
	HP	1572	0	29.8	20.8	0.2	335	0.0
	J&K(UT) & Ladakh(UT)	2385	0	48.3	40.9	2.4	446	0.0
WR	Chandigarh	168	0	3.0	3.0	0.1	27	0.0
	Chhattisgarh	3415	0	73.4	26.3	-1.2	229	0.0
	Gujarat	15756	0	350.3	40.9	3.4	668	0.0
	MP	13541	0	270.8	171.2	-2.4	377	0.0
	Maharashtra	20299	0	435.1	139.6	-2.2	926	0.0
	Goa	484	0	10.6	9.8	0.2	82	0.0
	DD	346	0	7.7	7.3	0.4	37	0.0
	DNH	791	0	18.1	18.2	-0.1	61	0.0
SR	AMNSIL	775	0	16.8	1.7	0.8	288	0.0
	Andhra Pradesh	9022	0	183.8	89.3	-0.9	366	0.0
	Telangana	7269	0	149.5	37.1	-1.9	430	0.0
	Karnataka	10196	0	191.5	51.9	1.2	588	0.0
	Kerala	3519	0	72.6	47.6	0.5	218	0.3
	Tamil Nadu	15298	0	326.7	202.5	-1.0	536	0.0
	Puducherry	385	0	7.9	8.1	-0.2	30	0.0
	ER	Bihar	4147	0	69.8	72.3	-3.6	413
DVC		2952	0	63.5	-30.1	1.8	858	0.0
Jharkhand		1391	0	24.9	18.6	-2.1	81	0.0
Odisha		4764	0	90.5	17.4	-0.7	277	0.0
West Bengal		6886	0	126.2	38.3	-2.0	395	0.0
Sikkim		107	0	1.4	1.6	-0.2	25	0.0
NER	Arunachal Pradesh	122	1	1.9	1.8	0.1	30	0.0
	Assam	1612	7	27.5	24.9	-0.4	111	0.0
	Manipur	208	2	2.8	2.5	0.2	35	0.0
	Meghalaya	340	0	5.8	2.5	-0.2	26	0.0
	Mizoram	102	2	1.7	0.7	0.8	18	0.0
	Nagaland	140	1	2.5	2.2	0.2	21	0.0
	Tripura	258	2	4.5	4.7	-0.4	48	0.0

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

	Bhutan	Nepal	Bangladesh
Actual (MU)	18.6	-1.5	-24.9
Day Peak (MW)	1493.0	-259.9	-1067.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	302.6	-318.5	119.5	-106.2	2.6	0.0
Actual(MU)	305.0	-312.8	129.1	-127.9	1.8	-4.8
OD/UD(MU)	2.5	5.7	9.6	-21.7	-0.9	-4.8

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL
Central Sector	6710	14233	10562	1770	877	34152
State Sector	17551	12666	12176	8005	11	50408
Total	24261	26899	22738	9775	888	84560

G. Sourcewise generation (MU)

	NR	WR	SR	ER	NER	All India
Coal	403	1310	444	454	7	2617
Lignite	17	14	26	0	0	56
Hydro	116	24	127	69	14	350
Nuclear	28	21	41	0	0	90
Gas, Naptha & Diesel	18	91	16	0	28	153
RES (Wind, Solar, Biomass & Others)	53	52	159	5	0	269
Total	634	1511	813	527	49	3534
Share of RES in total generation (%)	8.37	3.43	19.56	0.90	0.14	7.60
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	31.02	6.37	40.21	13.98	29.44	20.03

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.036
Based on State Max Demands	1.076

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: 05-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	601	0.0	10.8	-10.8	
2	HVDC	PUSAULI B/B	-	0	299	0.0	7.2	-7.2	
3	765 kV	GAYA-VARANASI	2	0	779	0.0	10.6	-10.6	
4	765 kV	SASARAM-EATEHPUR	1	17	327	0.0	3.9	-3.9	
5	765 kV	GAYA-BALIA	1	0	457	0.0	8.1	-8.1	
6	400 kV	PUSAULI-VARANASI	1	0	233	0.0	4.6	-4.6	
7	400 kV	PUSAULI-ALLAHABAD	1	0	140	0.0	2.4	-2.4	
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	0	881	0.0	10.3	-10.3	
9	400 kV	PATNA-BALIA	4	0	1106	0.0	16.5	-16.5	
10	400 kV	BIHARSHARIFF-BALIA	2	0	402	0.0	5.1	-5.1	
11	400 kV	MOTIHARI-GORAKHPUR	2	0	339	0.0	5.8	-5.8	
12	400 kV	BIHARSHARIFF-VARANASI	2	111	267	0.0	1.0	-1.0	
13	220 kV	PUSAULI-SAHUPURI	1	0	0	0.0	0.0	0.0	
14	132 kV	SONWARI-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	0.4	86.6	-86.2
Import/Export of ER (With WR)									
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	1628	0	17.9	0.0	17.9	
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	729	196	9.0	0.0	9.0	
3	765 kV	JHARSUGUDA-DURG	2	171	73	1.0	0.0	1.0	
4	400 kV	JHARSUGUDA-RAIGARH	4	393	0	6.1	0.0	6.1	
5	400 kV	RANCHI-SIPAT	2	346	44	4.0	0.0	4.0	
6	220 kV	BUDHIPADAR-RAIGARH	1	0	117	0.0	1.8	-1.8	
7	220 kV	BUDHIPADAR-KORBA	2	149	0	2.2	0.0	2.2	
						ER-WR	40.3	1.8	38.4
Import/Export of ER (With SR)									
1	HVDC	JEYPORE-GAZUWAKA B/B	2	0	323	0.0	7.4	-7.4	
2	HVDC	TALCHER-KOLAR BIPOLE	2	0	1990	0.0	46.0	-46.0	
3	765 kV	ANGUL-SRIKAKULAM	2	0	2786	0.0	53.2	-53.2	
4	400 kV	TALCHER-I/C	2	0	648	0.0	12.5	-12.5	
5	220 kV	BALMELA-UPPER-SILERRU	1	1	0	0.0	0.0	0.0	
						ER-SR	0.0	106.6	-106.6
Import/Export of ER (With NER)									
1	400 kV	BINAGURI-BONGAIGAON	2	0	507	0.0	5.5	-5.5	
2	400 kV	ALIPURDUAR-BONGAIGAON	2	0	602	0.0	6.2	-6.2	
3	220 kV	ALIPURDUAR-SALAKATI	2	0	123	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	501	0.0	12.5	-12.5	
						NER-NR	0.0	12.5	-12.5
Import/Export of WR (With NR)									
1	HVDC	CHAMPA-KURUKSHETRA	2	0	1510	0.0	35.9	-35.9	
2	HVDC	VINDHYACHAL B/B	-	443	0	2.2	0.0	2.2	
3	HVDC	KUNDRA-MOHINDERGARH	2	0	1647	0.0	40.0	-40.0	
4	765 kV	GWALIOR-AGRA	2	0	2706	0.0	47.4	-47.4	
5	765 kV	PHAGI-GWALIOR	2	0	1610	0.0	29.7	-29.7	
6	765 kV	JABALPUR-ORAI	2	0	1092	0.0	39.9	-39.9	
7	765 kV	GWALIOR-ORAI	1	659	0	11.2	0.0	11.2	
8	765 kV	SATNA-ORAI	1	0	1546	0.0	32.3	-32.3	
9	765 kV	CHITORGARH-BANASKANTHA	2	0	895	0.0	15.6	-15.6	
10	400 kV	ZERDA-KANKROLI	1	0	184	0.0	2.2	-2.2	
11	400 kV	ZERDA -BHINMAL	1	0	417	0.0	5.3	-5.3	
12	400 kV	VINDHYACHAL -RIHAND	1	983	0	22.9	0.0	22.9	
13	400 kV	RAPP-SHUALPUR	2	0	340	0.0	5.1	-5.1	
14	220 kV	BHANPURA-RANPUR	1	0	149	0.0	1.8	-1.8	
15	220 kV	BHANPURA-MORAK	1	11	0	0.3	0.0	0.0	
16	220 kV	MEHGAON-AURAIYA	1	124	0	0.5	0.0	0.5	
17	220 kV	MALANPUR-AURAIYA	1	79	11	1.3	0.0	1.3	
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	38.4	255.4	-216.9
Import/Export of WR (With SR)									
1	HVDC	BHADRAWATI B/B	-	0	721	0.0	9.1	-9.1	
2	HVDC	RAIGARH-PUGALUR	2	0	151	0.0	7.2	-7.2	
3	765 kV	SOLAPUR-RAICHUR	2	322	2143	0.0	26.6	-26.6	
4	765 kV	WARDHA-NIZAMABAD	2	62	1811	0.0	24.1	-24.1	
5	400 kV	KOLHAPUR-KUDGI	2	716	0	9.0	0.0	9.0	
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	NELDEM-AMBEWADI	1	0	42	0.8	0.0	0.8	
						WR-SR	9.9	67.0	-57.1
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 MANGDECHHU HEP 4*180MW)	255	0	236	5.7			
	ER	400KV TALA-BINAGURI 1,2,3 (& 400KV MALBASE - BINAGURI) i.e. BINAGURI RECEIPT (from TALA HEP (6*170MW)	1055	0	401	9.6			
	ER	220KV CHUKHA-BIRPARA 1&2 & 220KV MALBASE - BIRPARA) i.e. BIRPARA RECEIPT (from CHUKHA HEP 4*84MW)	129	0	97	2.3			
	NER	132KV-GEYLEGPHU - SALAKATI	20	5	-14	-0.3			
	NER	132KV Motanga-Rangia	34	22	-28	-0.7			
NEPAL	NR	132KV-TANAKPUR(NH) - MAHENDRANAGAR(PG)	-27	0	-3	-0.1			
	ER	132KV-BIHAR - NEPAL	-119	-1	-32	-0.8			
	ER	220KV-MUZAFFARPUR - DHALKEBAR DC	-114	-4	-28	-0.7			
BANGLADESH	ER	BHERAMARA HVDC(BANGLADESH)	-922	-911	-917	-22.0			
	NER	132KV-SURAJMANI NAGAR - COMILLA(BANGLADESH)-1	73	0	-60	-1.5			
	NER	132KV-SURAJMANI NAGAR - COMILLA(BANGLADESH)-2	72	0	-60	-1.4			