



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: 23rd 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 22.11.2020.

महोदय/Dear Sir,

आईईजीसी-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 22-नवंबर-2020 की अखिल भारतीय प्रणाली की दैनिक ग्रिड निष्पादन रिपोर्ट रांभांप्रेके 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 22nd 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: 23-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)	41881	47939	35061	16312	2329	143522
Peak Shortage (MW)	0	0	0	0	75	75
Energy Met (MU)	841	1151	814	336	40	3181
Hydro Gen (MU)	108	24	82	42	17	274
Wind Gen (MU)	3	38	26	-	-	67
Solar Gen (MU)*	35.60	29.91	96.21	4.45	0.08	166
Energy Shortage (MU)	1.1	0.2	0.0	0.0	0.6	1.8
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	42911	53899	38968	17139	2393	150478
Time Of Maximum Demand Met (From NLDC SCADA)	10:40	10:40	10:23	18:02	17:29	10:40

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	0.036	0.00	0.36	8.12	8.48	78.78	12.73

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	4953	0	97.4	80.1	0.0	139	0.8
	Haryana	5305	0	106.3	104.0	0.5	358	0.0
	Rajasthan	12219	0	230.0	75.4	1.1	513	0.0
	Delhi	3373	0	58.7	40.0	1.2	216	0.0
	UP	13265	0	237.7	88.6	-1.4	525	0.0
	Uttarakhand	1804	0	33.4	24.8	1.2	165	0.0
	HP	1543	18	27.8	21.4	-0.2	128	0.2
	J&K(UT) & Ladakh(UT)	2461	0	46.9	43.8	-3.4	177	0.0
WR	Chandigarh	168	0	2.9	3.0	-0.1	30	0.0
	Chhattisgarh	3300	0	71.9	16.1	-0.5	240	0.0
	Gujarat	14714	0	312.2	57.4	4.3	650	0.0
	MP	13572	0	270.8	177.1	-3.8	422	0.0
	Maharashtra	20931	0	442.3	159.1	-3.0	432	0.0
	Goa	454	0	10.1	8.8	0.8	68	0.2
	DD	295	0	6.8	6.5	0.3	32	0.0
	DNH	771	0	17.9	17.8	0.1	41	0.0
SR	AMNSIL	840	0	18.8	1.2	0.4	228	0.0
	Andhra Pradesh	8192	0	167.8	86.5	-0.2	720	0.0
	Telangana	7038	0	144.2	49.7	-1.3	260	0.0
	Karnataka	9345	0	181.5	64.4	-1.2	620	0.0
	Kerala	3179	0	64.2	50.6	-0.4	192	0.0
	Tamil Nadu	11554	0	249.4	163.2	-0.1	653	0.0
	Puducherry	322	0	6.7	7.0	-0.3	47	0.0
	Bihar	4218	0	72.1	70.3	1.1	350	0.0
ER	DVC	3080	0	63.7	-45.2	0.2	247	0.0
	Jharkhand	1345	0	24.3	18.6	-2.3	122	0.0
	Odisha	3757	0	73.3	13.3	-1.0	259	0.0
	West Bengal	5439	0	100.7	28.9	0.5	588	0.0
	Sikkim	97	0	1.3	1.5	-0.2	19	0.0
NER	Arunachal Pradesh	113	1	2.0	1.9	0.1	20	0.0
	Assam	1361	35	22.7	18.3	0.3	129	0.5
	Manipur	206	2	2.8	2.9	-0.2	25	0.0
	Meghalaya	338	0	6.0	2.8	0.0	46	0.0
	Mizoram	103	1	1.4	1.1	0.0	27	0.0
	Nagaland	115	1	2.1	1.8	0.2	18	0.0
Tripura	214	0	3.3	2.2	-0.4	35	0.0	

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

	Bhutan	Nepal	Bangladesh
Actual (MU)	12.8	-1.5	-14.6
Day Peak (MW)	614.0	-317.3	-740.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	271.7	-308.0	134.5	-97.3	-0.8	0.0
Actual(MU)	268.0	-292.5	136.0	-111.4	-0.8	-0.8
O/D/U/D(MU)	-3.7	15.5	1.5	-14.1	0.0	-0.8

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL
Central Sector	7510	12733	10852	3350	1022	35467
State Sector	18091	16017	14706	5982	11	54807
Total	25601	28750	25558	9332	1033	90273

G. Sourcewise generation (MU)

	NR	WR	SR	ER	NER	All India
Coal	359	1280	335	419	7	2399
Lignite	21	11	30	0	0	63
Hydro	108	24	82	42	17	274
Nuclear	28	33	65	0	0	126
Gas, Naptha & Diesel	20	44	15	0	22	101
RES (Wind, Solar, Biomass & Others)	59	69	159	4	0	291
Total	595	1462	687	465	45	3254
Share of RES in total generation (%)	9.86	4.72	23.15	0.95	0.18	8.95
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	32.83	8.64	44.58	9.92	37.25	21.23

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.032
Based on State Max Demands	1.063

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: 23-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	451	0.0	11.0	-11.0	
2	HVDC	PUSAULI B/B	-	0	299	0.0	7.4	-7.4	
3	765 kV	GAYA-VARANASI	2	0	994	0.0	11.5	-11.5	
4	765 kV	SASARAM-FATEHPUR	1	33	383	0.0	3.4	-3.4	
5	765 kV	GAYA-BALIA	1	0	485	0.0	8.1	-8.1	
6	400 kV	PUSAULI-VARANASI	1	0	224	0.0	4.9	-4.9	
7	400 kV	PUSAULI-ALLAHABAD	1	0	131	0.0	2.3	-2.3	
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	0	718	0.0	6.1	-6.1	
9	400 kV	PATNA-BALIA	4	0	985	0.0	12.3	-12.3	
10	400 kV	BIHARSHARIFF-BALIA	2	0	362	0.0	3.9	-3.9	
11	400 kV	MOTIHARI-GORAKHPUR	2	0	312	0.0	4.9	-4.9	
12	400 kV	BIHARSHARIFF-VARANASI	2	76	294	0.0	0.4	-0.4	
13	220 kV	PUSAULI-SAHUPURI	1	22	60	0.0	0.3	-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	0.3	0.0	0.3	
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	0.3	76.4	-76.1
Import/Export of ER (With WR)									
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	991	290	10.5	0.0	10.5	
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	948	0	15.7	0.0	15.7	
3	765 kV	JHARSUGUDA-DURG	2	249	75	1.6	0.0	1.6	
4	400 kV	JHARSUGUDA-RAIGARH	4	356	0	4.4	0.0	4.4	
5	400 kV	RANCHI-SIPAT	2	331	0	5.5	0.0	5.5	
6	220 kV	BUDHIPADAR-RAIGARH	1	36	58	0.0	0.1	-0.1	
7	220 kV	BUDHIPADAR-KORBA	2	190	0	2.9	0.0	2.9	
						ER-WR	40.4	0.1	40.3
Import/Export of ER (With SR)									
1	HVDC	JEYPORE-GAZUWAKA B/B	2	0	540	0.0	12.4	-12.4	
2	HVDC	TALCHER-KOLAR BIPOLE	2	0	1999	0.0	45.9	-45.9	
3	765 kV	ANGUL-SRIKAKULAM	2	0	2602	0.0	48.1	-48.1	
4	400 kV	TALCHER-I/C	2	0	967	0.0	12.3	-12.3	
5	220 kV	BALIMELA-UPPER-SILERRU	1	1	0	0.0	0.0	0.0	
						ER-SR	0.0	106.4	-106.4
Import/Export of ER (With NER)									
1	400 kV	BINAGURI-BONGAIGAON	2	0	391	0.0	4.7	-4.7	
2	400 kV	ALIPURDUAR-BONGAIGAON	2	0	439	0.0	3.9	-3.9	
3	220 kV	ALIPURDUAR-SALAKATI	2	0	87	0.0	1.0	-1.0	
						ER-NER	0.0	9.6	-9.6
Import/Export of NER (With NR)									
1	HVDC	BISWANATH CHARIALI-AGRA	2	0	504	0.0	10.9	-10.9	
						NER-NR	0.0	10.9	-10.9
Import/Export of WR (With NR)									
1	HVDC	CHAMPA-KURUKSHETRA	2	0	1001	0.0	22.6	-22.6	
2	HVDC	VINDHYACHAL B/B	-	448	0	8.4	0.0	8.4	
3	HVDC	MUNDRA-MOHINDERGARH	2	0	1459	0.0	31.9	-31.9	
4	765 kV	GWALIOR-AGRA	2	0	2776	0.0	52.3	-52.3	
5	765 kV	PHAGI-GWALIOR	2	0	1863	0.0	29.8	-29.8	
6	765 kV	JABALPUR-ORAI	2	0	1103	0.0	41.0	-41.0	
7	765 kV	GWALIOR-ORAI	1	677	0	10.8	0.0	10.8	
8	765 kV	SATNA-ORAI	1	0	1471	0.0	31.5	-31.5	
9	765 kV	CHITORGARH-BANASKANTHA	2	0	674	0.0	9.0	-9.0	
10	400 kV	ZERDA-KANKROLI	1	25	131	0.0	1.2	-1.2	
11	400 kV	ZERDA-BHINMAL	1	0	405	0.0	5.4	-5.4	
12	400 kV	VINDHYACHAL-RIHAND	1	981	0	22.7	0.0	22.7	
13	400 kV	RAPP-SHUJALPUR	2	0	411	0.0	5.1	-5.1	
14	220 kV	BHANPURA-RANPUR	1	0	143	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	82	12	0.2	0.2	0.0	
17	220 kV	MALANPUR-AURAIYA	1	47	27	0.6	0.0	0.6	
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	43.0	231.8	-188.8
Import/Export of WR (With SR)									
1	HVDC	BHADRAWATI B/B	-	0	515	0.0	12.1	-12.1	
2	HVDC	RAIGARH-PUGALUR	2	0	1490	0.0	15.3	-15.3	
3	765 kV	SOLAPUR-RAICHUR	2	1220	2181	0.0	18.3	-18.3	
4	765 kV	WARDHA-NIZAMABAD	2	194	1944	0.0	27.0	-27.0	
5	400 kV	KOLHAPUR-KUDGI	2	624	4	6.4	0.0	6.4	
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	1	40	0.6	0.0	0.6	
						WR-SR	7.0	72.7	-65.7

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)	203	0	178	4.3
	ER	400kV TALA-BINAGURI 1,2,4 (& 400kV MALBASE - BINAGURI i.e. BINAGURI RECEIPT (from TALA HEP (6*170MW)	306	305	306	7.4
	ER	220kV CHUKHA-BIRPARA 1&2 (& 220kV MALBASE - BIRPARA) i.e. BIRPARA RECEIPT (from CHUKHA HEP 4*84MW)	65	0	21	0.5
	NER	132KV-GEYLEGPHU - SALAKATI	12	0	-5	-0.1
	NER	132kV Motanga-Rangia	28	19	-23	-0.5
NEPAL	NR	132KV-TANAKPUR(NH) - MAHENDRANAGAR(PG)	-7	0	-3	-0.1
	ER	400KV-MUZAFFARPUR - DHALKEBAR DC	-196	-8	-38	-0.9
	ER	132KV-BIHAR - NEPAL	-114	-1	-23	-0.6
BANGLADESH	ER	BHERAMARA HVDC(BANGLADESH)	-630	-414	-518	-12.4
	NER	132KV-SURAJMANI NAGAR - COMILLA(BANGLADESH)-1	55	0	-44	-1.1
	NER	132KV-SURAJMANI NAGAR - COMILLA(BANGLADESH)-2	55	0	-44	-1.1