



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: 29th Oct 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 28.10.2020.

महोदय/Dear Sir,

आई०ई०जी०सी०-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 28-अक्टूबर-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 28th October 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:

29-Oct-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)	46782	49848	40200	19092	2755	158677
Peak Shortage (MW)	17	0	0	0	8	25
Energy Met (MU)	960	1166	887	375	49	3437
Hydro Gen (MU)	130	24	137	83	21	395
Wind Gen (MU)	3	26	16	-	-	45
Solar Gen (MU)*	35.32	30.51	96.76	4.57	0.12	167
Energy Shortage (MU)	0.3	0.0	0.0	0.0	0.0	0.4
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	47480	54062	40291	19435	2847	160276
Time Of Maximum Demand Met (From NLDC SCADA)	18:55	11:02	09:59	18:23	17:39	18:39

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	0.034	0.01	0.36	7.21	7.58	80.26	12.16

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	5546	0	116.9	89.3	-0.7	215	0.0
	Haryana	6411	0	133.7	122.2	1.2	411	0.0
	Rajasthan	12215	0	242.4	90.8	1.7	379	0.0
	Delhi	3511	0	66.6	51.1	-0.8	206	0.0
	UP	15435	10	285.1	122.5	-0.7	541	0.3
	Uttarakhand	1770	0	35.4	25.8	0.7	124	0.0
	HP	1530	10	29.4	19.8	0.4	137	0.0
	J&K(UT) & Ladakh(UT)	2543	0	47.3	37.8	1.4	252	0.0
WR	Chandigarh	183	0	3.1	3.0	0.1	33	0.0
	Chhattisgarh	3470	0	78.5	27.5	-0.7	263	0.0
	Gujarat	15902	0	350.8	77.6	1.7	348	0.0
	MP	12226	0	255.8	157.3	-2.8	336	0.0
	Maharashtra	19254	0	428.7	129.9	-2.5	451	0.0
	Goa	460	0	9.7	9.5	-0.4	43	0.0
	DD	344	0	7.7	7.4	0.3	28	0.0
	DNH	782	0	18.0	17.9	0.1	55	0.0
SR	AMNSIL	794	0	16.7	4.2	-0.4	277	0.0
	Andhra Pradesh	8003	0	172.2	74.5	-0.7	486	0.0
	Telangana	7392	0	157.3	43.0	-1.0	434	0.0
	Karnataka	8632	0	163.2	52.2	0.5	506	0.0
	Kerala	3538	0	71.5	45.1	0.1	249	0.0
	Tamil Nadu	14564	0	315.4	193.1	-0.6	544	0.0
	Puducherry	373	0	7.6	7.9	-0.3	52	0.0
	ER	Bihar	4686	0	83.2	78.0	0.9	284
DVC		3700	0	62.3	-40.9	0.4	269	0.0
Jharkhand		1423	0	24.8	20.7	-0.7	95	0.0
Odisha		4169	0	76.9	2.1	0.3	584	0.0
West Bengal		7031	0	126.5	33.3	0.0	369	0.0
NER	Sikkim	79	0	1.1	1.1	0.0	37	0.0
	Arunachal Pradesh	113	1	2.2	2.0	0.2	36	0.0
	Assam	1757	7	29.6	24.9	1.6	138	0.0
	Manipur	202	2	2.9	2.6	0.3	20	0.0
	Meghalaya	315	0	5.8	-0.2	0.0	48	0.0
	Mizoram	99	2	1.6	0.6	0.6	37	0.0
	Nagaland	134	2	2.4	2.3	-0.1	17	0.0
	Tripura	280	1	4.7	4.7	0.0	26	0.0

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

	Bhutan	Nepal	Bangladesh
Actual (MU)	24.8	-0.4	-26.0
Day Peak (MW)	1407.0	-150.5	-1109.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	306.9	-286.5	111.4	-127.2	-4.5	0.0
Actual(MU)	306.4	-291.8	112.2	-134.0	-2.5	-9.6
O/D/U/D(MU)	-0.5	-5.2	0.8	-6.7	2.1	-9.6

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL
Central Sector	6800	15105	10442	1970	660	34977
State Sector	15394	14307	13276	6715	11	49703
Total	22194	29412	23718	8685	671	84679

G. Sourcwise generation (MU)

	NR	WR	SR	ER	NER	All India
Coal	419	1267	394	462	7	2549
Lignite	22	11	25	0	0	57
Hydro	130	24	137	83	21	395
Nuclear	28	21	69	0	0	117
Gas, Naptha & Diesel	23	85	16	0	28	153
RES (Wind, Solar, Biomass & Others)	49	57	146	5	0	256
Total	670	1464	787	550	57	3527

Share of RES in total generation (%)	7.28	3.87	18.56	0.83	0.21	7.26
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	30.77	6.92	44.74	15.98	37.60	21.79

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.024
Based on State Max Demands	1.054

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: 29-Oct-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	701	0.0	16.2	-16.2
2	HVDC	PUSAULI B/B	-	0	299	0.0	7.1	-7.1
3	765 kV	GAYA-VARANASI	2	0	926	0.0	14.8	-14.8
4	765 kV	SASARAM-FATEHPUR	1	0	388	0.0	4.4	-4.4
5	765 kV	GAYA-BALIA	1	0	488	0.0	8.7	-8.7
6	400 kV	PUSAULI-VARANASI	1	0	239	0.0	4.4	-4.4
7	400 kV	PUSAULI-ALLAHABAD	1	0	155	0.0	2.5	-2.5
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	0	846	0.0	9.9	-9.9
9	400 kV	PATNA-BALIA	4	0	1102	0.0	16.7	-16.7
10	400 kV	BIHARSHARIF-BALIA	2	0	422	0.0	5.7	-5.7
11	400 kV	MOTIHARI-GORAKHPUR	2	0	233	0.0	5.5	-5.5
12	400 kV	BIHARSHARIF-VARANASI	2	125	308	0.0	1.9	-1.9
13	220 kV	PUSAULI-SAHUPURI	1	0	90	0.0	1.5	-1.5
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	99.3	-98.9
Import/Export of ER (With WR)								
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	748	757	1.4	0.0	1.4
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	662	425	6.1	0.0	6.1
3	765 kV	JHARSUGUDA-DURG	2	0	236	0.0	2.5	-2.5
4	400 kV	JHARSUGUDA-RAIGARH	4	68	275	0.0	1.7	-1.7
5	400 kV	RANCHI-SIPAT	2	228	135	1.8	0.0	1.8
6	220 kV	BUDHIPADAR-RAIGARH	1	0	152	0.0	2.5	-2.5
7	220 kV	BUDHIPADAR-KORBA	2	100	0	1.4	0.0	1.4
ER-WR						10.7	6.7	4.0
Import/Export of ER (With SR)								
1	HVDC	JEYPORE-GAZUWAKA B/B	2	0	537	0.0	10.1	-10.1
2	HVDC	TALCHER-KOLAR BIPOLE	2	0	1240	0.0	24.9	-24.9
3	765 kV	ANGUL-SRIKAKULAM	2	0	3016	0.0	52.3	-52.3
4	400 kV	TALCHER-I/C	2	925	0	19.4	0.0	19.4
5	220 kV	BALIMELA-UPPER-SILERRU	1	1	0	0.0	0.0	0.0
ER-SR						0.0	87.3	-87.3
Import/Export of ER (With NER)								
1	400 kV	BINAGURI-BONGAIGAON	2	0	370	0.0	3.8	-3.8
2	400 kV	ALIPURDUAR-BONGAIGAON	2	104	385	0.0	2.8	-2.8
3	220 kV	ALIPURDUAR-SALAKATI	2	0	109	0.0	1.3	-1.3
ER-NER						0.0	7.8	-7.8
Import/Export of NER (With NR)								
1	HVDC	BISWANATH CHARIALI-AGRA	2	0	501	0.0	12.1	-12.1
NER-NR						0.0	12.1	-12.1
Import/Export of WR (With NR)								
1	HVDC	CHAMPA-KURUKSHETRA	2	0	1502	0.0	47.6	-47.6
2	HVDC	VINDHYACHAL B/B	-	445	0	9.0	0.0	9.0
3	HVDC	MUNDRA-MOHINDERGARH	2	0	1923	0.0	44.0	-44.0
4	765 kV	GWALIOR-AGRA	2	0	2825	0.0	51.6	-51.6
5	765 kV	PHAGI-GWALIOR	2	0	1223	0.0	18.2	-18.2
6	765 kV	JABALPUR-ORAI	2	0	1076	0.0	39.4	-39.4
7	765 kV	GWALIOR-ORAI	1	549	0	8.8	0.0	8.8
8	765 kV	SATNA-ORAI	1	0	1487	0.0	31.9	-31.9
9	765 kV	CHITORGARH-BANASKANTHA	2	117	884	0.0	5.6	-5.6
10	400 kV	ZERDA-KANKROLI	1	90	132	0.0	0.7	-0.7
11	400 kV	ZERDA-BHINMAL	1	23	301	0.0	3.2	-3.2
12	400 kV	VINDHYACHAL-RIHAND	1	979	0	22.8	0.0	22.8
13	400 kV	RAPP-SHUJALPUR	2	0	458	0.0	5.8	-5.8
14	220 kV	BHANPURA-RANPUR	1	4	99	0.0	1.1	-1.1
15	220 kV	BHANPURA-MORAK	1	11	0	0.2	0.3	-0.1
16	220 kV	MEHGAON-AURAIYA	1	93	0	0.3	0.0	0.3
17	220 kV	MALANPUR-AURAIYA	1	53	19	1.0	0.0	1.0
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						42.2	249.3	-207.2
Import/Export of WR (With SR)								
1	HVDC	BHADRAWATI B/B	-	0	522	0.0	12.2	-12.2
2	HVDC	RAIGARH-PUGALUR	2	0	992	0.0	21.2	-21.2
3	765 kV	SOLAPUR-RAICHUR	2	933	2352	0.0	24.1	-24.1
4	765 kV	WARDHA-NIZAMABAD	2	310	2094	0.0	26.0	-26.0
5	400 kV	KOLHAPUR-KUDGI	2	889	0	8.3	0.0	8.3
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	48	0.9	0.0	0.9
WR-SR						9.2	83.6	-74.4

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)	357	0	303	7.3
	ER	400kV TALA-BINAGURI 1,2,4 (& 400kV MALBASE - BINAGURI) i.e. BINAGURI RECEIPT (from TALA HEP (6*170MW)	794	0	512	12.3
	ER	220kV CHUKHA-BIRPARA 1&2 (& 220kV MALBASE - BIRPARA) i.e. BIRPARA RECEIPT (from CHUKHA HEP 4*84MW)	178	0	153	3.7
	NER	132KV-GEYLEGPHU - SALAKATI	29	14	-23	-0.6
	NER	132kV Motanga-Rangia	49	33	-42	-1.0
NEPAL	NR	132KV-TANAKPUR(NH) - MAHENDRANAGAR(PG)	0	0	0	0.0
	ER	132KV-BIHAR - NEPAL	-118	0	-14	-0.3
	ER	220KV-MUZAFFARPUR - DHALKEBAR DC	-33	32	0	0.0
BANGLADESH	ER	BHERAMARA HVDC(BANGLADESH)	-947	-945	-946	-22.7
	NER	132KV-SURAJMANI NAGAR - COMILLA(BANGLADESH)-1	81	0	-70	-1.7
	NER	132KV-SURAJMANI NAGAR - COMILLA(BANGLADESH)-2	81	0	-70	-1.7