



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: 14th 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 13.10.2020.

महोदय/Dear Sir,

आई०ई०जी०सी०-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 13-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 13th October 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: 14-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)	53059	50909	35431	22812	3008	165219
Peak Shortage (MW)	778	0	0	77	102	957
Energy Met (MU)	1171	1172	765	483	57	3648
Hydro Gen (MU)	189	43	112	112	22	477
Wind Gen (MU)	9	27	118	-	-	154
Solar Gen (MU)*	39.15	25.75	58.77	4.70	0.13	128
Energy Shortage (MU)	0.5	0.0	0.0	0.2	1.9	2.6
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	55487	51255	35462	23100	3126	166517
Time Of Maximum Demand Met (From NLDC SCADA)	19:14	18:42	18:43	18:57	18:05	18:44

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	0.021	0.00	0.00	1.31	1.31	79.13	19.56

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	7740	0	163.7	117.8	0.0	133	0.0
	Haryana	7939	58	170.0	142.6	1.8	199	0.1
	Rajasthan	11526	0	242.7	85.8	1.4	619	0.0
	Delhi	4231	0	91.2	71.6	0.8	298	0.0
	UP	20073	0	384.1	159.3	0.6	361	0.4
	Uttarakhand	1905	0	37.4	22.7	-0.4	158	0.0
	HP	1435	0	30.2	14.4	-0.2	75	0.0
	J&K(UT) & Ladakh(UT)	2621	0	47.9	31.9	2.2	437	0.0
	Chandigarh	215	0	4.2	4.0	0.2	28	0.0
WR	Chhattisgarh	3638	0	83.2	21.0	-0.8	247	0.0
	Gujarat	17260	0	374.5	73.5	2.9	466	0.0
	MP	10651	0	239.3	149.2	-2.3	365	0.0
	Maharashtra	18862	0	421.0	139.9	-3.4	602	0.0
	Goa	457	0	9.3	8.8	-0.1	57	0.0
	DD	343	0	7.6	7.4	0.2	28	0.0
	DNH	807	0	18.8	18.7	0.1	68	0.0
	AMNSIL	850	0	18.2	1.2	0.5	266	0.0
	Andhra Pradesh	7127	0	134.5	40.8	0.0	1167	0.0
SR	Telangana	5826	0	118.2	34.6	-3.8	430	0.0
	Karnataka	7544	0	147.4	47.0	-0.8	596	0.0
	Kerala	3203	0	64.4	37.5	0.1	173	0.0
	Tamil Nadu	13884	0	292.5	142.4	-4.5	405	0.0
	Puducherry	399	0	8.1	8.2	0.0	50	0.0
ER	Bihar	5876	0	116.5	112.6	-1.5	363	0.0
	DVC	3339	0	68.0	-47.5	0.2	357	0.0
	Jharkhand	1591	77	29.9	22.9	-1.4	115	0.2
	Odisha	4165	0	89.0	7.2	-0.3	444	0.0
	West Bengal	8637	0	178.6	67.5	5.4	707	0.0
	Sikkim	95	0	1.2	1.3	-0.1	24	0.0
NER	Arumachal Pradesh	124	1	2.3	2.1	0.2	35	0.0
	Assam	2028	70	36.3	32.7	0.3	162	1.8
	Manipur	213	1	2.8	2.6	0.2	19	0.0
	Meghalaya	305	0	5.4	0.8	-0.2	46	0.0
	Mizoram	102	1	1.7	0.9	0.5	17	0.0
	Nagaland	143	1	2.6	2.4	0.0	48	0.0
	Tripura	298	3	5.4	7.0	0.4	26	0.0

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

	Bhutan	Nepal	Bangladesh
Actual (MU)	34.5	-2.3	-25.4
Day Peak (MW)	1571.0	-268.5	-1093.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	361.6	-317.8	40.1	-85.3	1.5	0.0
Actual(MU)	380.1	-317.2	4.3	-78.3	3.6	-7.4
OD/UD(MU)	18.6	0.6	-35.8	7.0	2.2	-7.4

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL
Central Sector	5940	13338	10612	2035	275	32200
State Sector	13454	16548	15116	5085	112	50314
Total	19394	29885	25728	7120	387	82514

G. Sourcewise generation (MU)

	NR	WR	SR	ER	NER	All India
Coal	490	1278	357	475	10	2611
Lignite	25	14	20	0	0	59
Hydro	189	43	112	112	22	477
Nuclear	27	20	63	0	0	110
Gas, Naptha & Diesel	23	98	14	0	27	161
RES (Wind, Solar, Biomass & Others)	61	53	208	5	0	327
Total	815	1505	775	592	59	3745

Share of RES in total generation (%)	7.53	3.51	26.85	0.80	0.22	8.73
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	34.01	7.70	49.43	19.66	37.12	24.41

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.011
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: 14-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	700	0.0	17.2	-17.2
2	HVDC	PUSAULI B/B	-	0	297	0.0	7.1	-7.1
3	765 kV	GAYA-VARANASI	2	19	550	0.0	7.4	-7.4
4	765 kV	SASARAM-FATEHPUR	1	315	128	2.2	0.0	2.2
5	765 kV	GAYA-BALLIA	1	0	504	0.0	9.8	-9.8
6	400 kV	PUSAULI-VARANASI	1	0	263	0.0	5.3	-5.3
7	400 kV	PUSAULI-ALLAHABAD	1	0	114	0.0	1.7	-1.7
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	0	413	0.0	7.2	-7.2
9	400 kV	PATNA-BALLIA	4	0	788	0.0	15.5	-15.5
10	400 kV	BIHARSHARIF-BALLIA	2	0	301	0.0	5.4	-5.4
11	400 kV	MOTIHAR-GORAKHPUR	2	0	271	0.0	4.8	-4.8
12	400 kV	BIHARSHARIFE-VARANASI	2	258	59	2.0	0.0	2.0
13	220 kV	PUSAULI-SAHUPURI	1	0	128	0.0	2.2	-2.2
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						4.5	83.5	-79.0
Import/Export of ER (With WR)								
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	439	880	0.0	10.4	-10.4
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	1820	0	25.1	0.0	25.1
3	765 kV	JHARSUGUDA-DURG	2	226	98	0.2	0.0	0.2
4	400 kV	JHARSUGUDA-RAIGARH	4	430	0	5.4	0.0	5.4
5	400 kV	RANCHI-SIPAT	2	600	0	9.7	0.0	9.7
6	220 kV	BUDHIPADAR-RAIGARH	1	0	125	0.0	1.8	-1.8
7	220 kV	BUDHIPADAR-KORBA	2	181	0	3.3	0.0	3.3
ER-WR						43.7	12.2	31.5
Import/Export of ER (With SR)								
1	HVDC	JEPPORE-GAZIWAKA B/B	2	0	377	0.0	8.7	-8.7
2	HVDC	TALCHER-KOLAR BIPOLE	2	0	1632	0.0	32.6	-32.6
3	765 kV	ANGUL-SRIKAKULAM	2	0	1702	0.0	21.2	-21.2
4	400 kV	TALCHER-I/C	2	537	0	10.2	0.0	10.2
5	220 kV	BALIMELA-UPPER-SILERRU	1	1	0	0.0	0.0	0.0
ER-SR						0.0	62.5	-62.5
Import/Export of ER (With NER)								
1	400 kV	BINAGURI-BONGAIGAON	2	0	519	0.0	6.5	-6.5
2	400 kV	ALIPURDUAR-BONGAIGAON	2	0	562	0.0	7.3	-7.3
3	220 kV	ALIPURDUAR-SALAKATI	2	0	140	0.0	2.2	-2.2
ER-NER						0.0	16.0	-16.0
Import/Export of NER (With NR)								
1	HVDC	BISWANATH CHARIALI-AGRA	2	0	604	0.0	14.5	-14.5
NER-NR						0.0	14.5	-14.5
Import/Export of WR (With NR)								
1	HVDC	CHAMPA-KURUKSHETRA	2	0	2512	0.0	78.2	-78.2
2	HVDC	VINDHYACHAL B/B	-	0	499	0.0	12.1	-12.1
3	HVDC	MUNDRA-MOHINDERGARH	2	0	1920	0.0	43.1	-43.1
4	765 kV	GWALIOR-AGRA	2	0	3196	0.0	61.6	-61.6
5	765 kV	PHAGL-GWALIOR	2	0	1560	0.0	28.3	-28.3
6	765 kV	JABALPUR-ORAI	2	0	1282	0.0	49.0	-49.0
7	765 kV	GWALIOR-ORAI	1	560	0	11.0	0.0	11.0
8	765 kV	SATNA-ORAI	1	0	1668	0.0	35.3	-35.3
9	765 kV	CHITORGARH-BANASKANTHA	2	0	798	0.0	11.6	-11.6
10	400 kV	ZERDA-KANKROLI	1	21	143	0.0	1.1	-1.1
11	400 kV	ZERDA-BHINMAL	1	88	228	0.0	1.8	-1.8
12	400 kV	VINDHYACHAL-RIHAND	1	967	0	22.2	0.0	22.2
13	400 kV	RAPP-SHUALPUR	2	0	524	0.0	9.0	-9.0
14	220 kV	BHANPURA-RANPUR	1	0	155	0.0	2.5	-2.5
15	220 kV	BHANPURA-MORAK	1	11	0	0.0	2.3	-2.3
16	220 kV	MEHGAON-AURAIYA	1	93	0	0.1	0.2	-0.1
17	220 kV	MALANPUR-AURAIYA	1	46	34	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						34.3	336.1	-301.8
Import/Export of WR (With SR)								
1	HVDC	BHADRAWATI B/B	-	348	312	5.6	0.8	4.8
2	HVDC	RAIGARH-PUGALUR	2	0	741	0.0	20.7	-20.7
3	765 kV	SOLAPUR-RAICHUR	2	1733	796	15.5	0.0	15.5
4	765 kV	WARDHA-NIZAMABAD	2	960	748	0.7	0.0	0.7
5	400 kV	KOLHAPUR-KUDGI	2	942	0	13.6	0.0	13.6
6	220 kV	KOLHAPUR-CHIKODI	2	0	0	0.0	0.0	0.0
7	220 kV	PONDA-AMBEWADI	1	0	0	0.0	0.0	0.0
8	220 kV	XELDEM-AMBEWADI	1	1	91	1.7	0.0	1.7
WR-SR						37.2	21.5	15.7

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)	435	424	426	10.2
	ER	400KV TALA-BINAGURI 1,2,3 (& 400KV MALBASE - BINAGURI) i.e. BINAGURI RECEIPT (from TALA HEP 6*170MW)	682	597	625	15.0
	ER	220KV CHUKHA-BIRPARA 1&2 (& 220KV MALBASE - BIRPARA) i.e. BIRPARA RECEIPT (from CHUKHA HEP 4*84MW)	342	0	289	6.9
	NER	132KV-GEYLEGPHU - SALAKATI	48	39	-40	-1.0
	NER	132KV Motanga-Rangla	64	46	-58	-1.4
NEPAL	NR	132KV-TANAKPUR(NH) - MAHENDRANAGAR(PG)	-47	0	-16	-0.4
	ER	132KV-BIHAR - NEPAL	-62	0	-22	-0.5
	ER	220KV-MUZAFFARPUR - DHALKEBAR DC	-160	-2	-58	-1.4
	ER	BHERAMARA HVDC(BANGLADESH)	-924	-913	-916	-22.0

BANGLADESH	NER	132KV-SURAJMANI NAGAR - COMILLA(BANGLADESH)-1	85	0	-71	-1.7
	NER	132KV-SURAJMANI NAGAR - COMILLA(BANGLADESH)-2	84	0	-71	-1.7