



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: 24th 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 23.10.2020.

महोदय/Dear Sir,

आई०ई०जी०सी०-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 23-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 23rd 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: 24-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)	49007	50140	37471	20018	2226	158862
Peak Shortage (MW)	0	0	0	0	22	22
Energy Met (MU)	1030	1156	815	421	43	3464
Hydro Gen (MU)	145	39	117	85	21	406
Wind Gen (MU)	2	21	82	-	-	106
Solar Gen (MU)*	37.47	30.09	86.26	4.36	0.02	158
Energy Shortage (MU)	0.0	0.0	0.0	0.0	0.1	0.1
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	49642	50458	37576	20060	2356	159352
Time Of Maximum Demand Met (From NLDC SCADA)	18:56	18:38	18:30	19:11	17:37	18:56

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	0.022	0.00	0.28	1.71	1.99	84.21	13.79

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	6487	0	131.8	88.9	-0.9	142	0.0
	Haryana	6851	0	146.2	123.9	0.9	173	0.0
	Rajasthan	11772	0	241.3	95.7	1.5	464	0.0
	Delhi	3673	0	74.4	57.3	-0.2	163	0.0
	UP	16735	0	321.2	125.4	-1.3	520	0.0
	Uttarakhand	1773	0	36.3	24.8	0.8	157	0.0
	HP	1543	0	29.7	18.1	0.7	152	0.0
	J&K(UT) & Ladakh(UT)	2440	0	45.4	34.8	1.3	288	0.0
	Chandigarh	188	0	3.3	3.3	0.0	15	0.0
WR	Chhattisgarh	3730	0	83.1	33.3	-0.6	181	0.0
	Gujarat	16108	0	354.2	72.5	0.9	425	0.0
	MP	11518	0	249.9	152.2	-0.4	605	0.0
	Maharashtra	18941	0	414.8	124.7	-2.1	554	0.0
	Goa	486	0	9.6	9.2	-0.1	68	0.0
	DD	348	0	7.9	7.6	0.3	62	0.0
	DNH	800	0	18.3	18.3	0.0	77	0.0
SR	AMNSIL	790	0	18.0	1.2	0.4	206	0.0
	Andhra Pradesh	7470	0	155.2	71.1	-1.0	372	0.0
	Telangana	6735	0	143.8	46.3	-1.6	264	0.0
	Karnataka	7714	0	146.6	52.0	-1.1	398	0.0
	Kerala	3341	0	67.5	41.6	0.1	220	0.0
	Tamil Nadu	13325	0	293.7	148.9	-2.0	489	0.0
	Puducherry	376	0	7.7	8.1	-0.4	20	0.0
ER	Bihar	5611	0	108.0	105.4	-2.2	220	0.0
	DVC	3156	0	65.3	-46.7	-0.4	310	0.0
	Jharkhand	1500	0	29.9	22.3	-0.8	120	0.0
	Odisha	4538	0	92.4	12.4	-0.5	375	0.0
	West Bengal	6263	0	124.4	31.9	-0.1	295	0.0
NER	Sikkim	95	0	1.4	1.4	0.0	20	0.0
	Arunachal Pradesh	107	1	2.2	2.3	-0.2	11	0.0
	Assam	1372	15	23.7	21.6	-0.6	67	0.0
	Manipur	188	2	2.8	2.6	0.1	27	0.0
	Meghalaya	328	1	5.9	0.7	-0.3	21	0.0
	Mizoram	105	1	1.6	0.7	0.5	20	0.0
	Nagaland	134	2	2.5	2.2	0.1	46	0.0
	Trinura	304	18	3.9	3.0	-0.6	51	0.0

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

	Bhutan	Nepal	Bangladesh
Actual (MU)	25.0	-0.4	-19.7
Day Peak (MW)	1094.0	-130.9	-1025.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	309.1	-279.1	77.9	-100.9	-6.9	0.0
Actual(MU)	324.5	-275.9	61.1	-109.2	-8.7	-8.1
O/D/U/D(MU)	15.5	3.2	-16.8	-8.2	-1.8	-8.1

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL
Central Sector	6370	17415	11402	2050	525	37762
State Sector	12169	13371	16108	5605	47	47299
Total	18539	30786	27510	7655	572	85061

G. Sourcewise generation (MU)

	NR	WR	SR	ER	NER	All India
Coal	470	1225	341	468	8	2512
Lignite	18	11	20	0	0	49
Hvdro	145	39	117	85	21	406
Nuclear	22	21	68	0	0	111
Gas, Naptha & Diesel	24	91	16	0	27	158
RES (Wind, Solar, Biomass & Others)	51	52	200	4	0	307
Total	729	1438	762	557	56	3542
Share of RES in total generation (%)	6.96	3.58	26.22	0.78	0.04	8.65
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	29.82	7.71	50.50	15.98	37.94	23.25

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.005
Based on State Max Demands	1.047

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: 24-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	16.4	-16.4
2	HVDC	PUSAULI B/B	-	0	297	0.0	7.1	-7.1
3	765 kV	GAYALYARANASI	2	0	891	0.0	12.3	-12.3
4	765 kV	SASARAM-FATEHPUR	1	182	276	0.0	1.3	-1.3
5	765 kV	GAYA-BALIA	1	0	547	0.0	10.4	-10.4
6	400 kV	PUSAULI-VARANASI	1	0	249	0.0	4.9	-4.9
7	400 kV	PUSAULI-ALLAHABAD	1	0	147	0.0	2.0	-2.0
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	0	728	0.0	8.4	-8.4
9	400 kV	PATNA-BALIA	4	0	939	0.0	15.1	-15.1
10	400 kV	BIHARSHARIFF-BALIA	2	0	438	0.0	6.1	-6.1
11	400 kV	MOTIHARI-GORAKHPUR	2	0	234	0.0	5.6	-5.6
12	400 kV	BIHARSHARIFF-VARANASI	2	161	259	0.0	0.5	-0.5
13	220 kV	PUSAULI-SAHUPURI	1	0	106	0.0	1.8	-1.8
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	136	0.0	0.0	0.0
17	132 kV	KARMANASA-CHANDAULI	1	0	0	0.0	0.0	0.0
						ER-NR	0.4	-91.7
Import/Export of ER (With WR)								
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	219	494	0.0	5.1	-5.1
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	949	84	12.5	0.0	12.5
3	765 kV	JHARSUGUDA-DURG	2	25	197	0.0	1.9	-1.9
4	400 kV	JHARSUGUDA-RAIGARH	4	837	0	13.8	0.0	13.8
5	400 kV	RANCHI-SIPAT	2	324	57	4.1	0.0	4.1
6	220 kV	BUDHIPADAR-RAIGARH	1	0	118	0.0	1.7	-1.7
7	220 kV	BUDHIPADAR-KORBA	2	89	5	0.9	0.0	0.9
						ER-WR	31.4	22.7
Import/Export of ER (With SR)								
1	HVDC	JEYPORE-GAZUWAKA B/B	2	0	372	0.0	8.6	-8.6
2	HVDC	TALCHER-KOLAR BIPOLE	2	0	1645	0.0	32.8	-32.8
3	765 kV	ANGUL-SRIKAKULAM	2	0	2618	0.0	41.7	-41.7
4	400 kV	TALCHER-I/C	2	1024	0	10.5	0.0	10.5
5	220 kV	BALIMELA-UPPER-SILERRU	1	1	0	0.0	0.0	0.0
						ER-SR	83.1	-83.1
Import/Export of ER (With NER)								
1	400 kV	BINAGURI-BONGAIGAON	2	0	273	0.0	3.2	-3.2
2	400 kV	ALIPURDUAR-BONGAIGAON	2	54	248	0.0	1.8	-1.8
3	220 kV	ALIPURDUAR-SALAKATI	2	0	68	0.0	0.9	-0.9
						ER-NER	5.9	-5.9
Import/Export of NER (With NR)								
1	HVDC	BISWANATH CHARIALI-AGRA	2	0	704	0.0	16.0	-16.0
						NER-NR	16.0	-16.0
Import/Export of WR (With NR)								
1	HVDC	CHAMPA-KURUKSHETRA	2	0	1251	0.0	48.2	-48.2
2	HVDC	VINDHYACHAL B/B	-	446	0	7.5	0.0	7.5
3	HVDC	MUNDRAL-MOHINDERGARH	2	0	1736	0.0	38.3	-38.3
4	765 kV	GWALIOR-AGRA	2	0	2514	0.0	49.4	-49.4
5	765 kV	PHAGL-GWALIOR	2	0	1735	0.0	30.4	-30.4
6	765 kV	JABALPUR-ORAI	2	0	1069	0.0	42.8	-42.8
7	765 kV	GWALIOR-ORAI	1	760	0	11.3	0.0	11.3
8	765 kV	SATNA-ORAI	1	0	1521	0.0	33.0	-33.0
9	765 kV	CHITORGARH-BANASKANTHA	2	0	1116	0.0	13.6	-13.6
10	400 kV	ZERDA-KANKROLI	1	2	206	0.0	2.1	-2.1
11	400 kV	ZERDA-BHINMAL	1	0	438	0.0	5.2	-5.2
12	400 kV	VINDHYACHAL-RIHAND	1	978	0	22.5	0.0	22.5
13	400 kV	RAPP-SHULJALPUR	2	0	548	0.0	8.3	-8.3
14	220 kV	BHANPURA-RANPUR	1	0	125	0.0	1.7	-1.7
15	220 kV	BHANPURA-MORAK	1	11	0	0.0	1.0	-1.0
16	220 kV	MEHGAON-AURAIYA	1	94	0	0.2	0.0	0.2
17	220 kV	MALANPUR-AURAIYA	1	52	13	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	42.5	-231.6
Import/Export of WR (With SR)								
1	HVDC	BHADRAWATI B/B	-	0	319	0.0	7.4	-7.4
2	HVDC	RAIGARH-PUGALUR	2	0	151	0.0	3.6	-3.6
3	765 kV	SOLAPUR-RAICHUR	2	1416	1979	0.0	6.9	-6.9
4	765 kV	WARDHA-NIZAMABAD	2	396	1871	0.0	14.9	-14.9
5	400 kV	KOLHAPUR-KUDGI	2	890	0	10.1	0.0	10.1
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	55	1.0	1.0	0.0
						WR-SR	11.1	-21.8

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)	316	0	299	7.2
	ER	400KV TALA-BINAGURI 1,2,3 (& 400KV MALBASE - BINAGURI) i.e. BINAGURI RECEIPT (from TALA HEP (6*170MW))	521	471	481	11.5
	ER	220KV CHUKHA-BIRPARA 1&2 (& 220KV MALBASE - BIRPARA) i.e. BIRPARA RECEIPT (from CHUKHA HEP 4*84MW)	234	0	196	4.7
	NER	132KV-GEYLEGPHU - SALAKATI	-44	0	-26	-0.6
	NER	132KV Motanga-Rangia	-33	-17	-33	-1.0
NEPAL	NR	132KV-TANAKPUR(NH) - MAHENDRANAGAR(PG)	-15	0	-1	0.0
	ER	132KV-BIHAR - NEPAL	-76	-1	-11	-0.3
BANGLADESH	ER	220KV-MUZAFFARPUR - DHAIKHEBAR DC	-40	-2	-5	-0.1
	ER	BHERAMARA HVDC(BANGLADESH)	-924	-630	-735	-17.6
	NER	132KV-SURAJMANI NAGAR - COMILLA(BANGLADESH)-1	51	0	-41	-1.0
	NER	132KV-SURAJMANI NAGAR - COMILLA(BANGLADESH)-2	50	0	-44	-1.1