National Load Despatch Centre
राष्ट्रीय भार प्रेषण केंद्र
POWER SYSTEM OPERATION CORPORATION LIMITED
पॉवर 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 Aug 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., डोंगतिएह, 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 23.08.2020.

महोदय/Dear Sir,

आई०ई०जी०सी०-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 23-अगस्त-2020 की अखिल भारतीय प्रणाली की दैनिक ग्रिड निष्पादन रिपोर्ट रा०भा०प्रे०के० की वेबसाइट पर उप्लब्ध 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 August 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-Aug-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 2000 hrs; from RLDCs)	52138	38160	34957	20271	2845	148371
Peak Shortage (MW)	0	0	0	0	79	79
Energy Met (MU)	1127	869	831	429	51	3307
Hydro Gen (MU)	290	74	119	141	25	649
Wind Gen (MU)	18	166	101	-	-	285
Solar Gen (MU)*	38.31	13.66	86.95	4.59	0.07	144
Energy Shortage (MU)	0.3	0.0	0.0	0.0	1.2	1.5
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	53768	37375	38670	21285	2846	147547
Time Of Maximum Demand Met (From NLDC SCADA)	22:26	09:24	09:29	20:49	18:54	19:46

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	0.025	0.00	0.00	1.35	1.35	79.63	19.01

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	9248	0	208.5	140.2	-0.5	102	0.0
	Haryana	7567	0	157.8	149.6	3.2	391	0.0
	Rajasthan	9115	0	207.3	74.4	-2.0	269	0.0
	Delhi	4424	0	91.4	79.2	-0.9	126	0.0
	UP	19225	0	352.0	163.1	-1.4	421	0.3
	Uttarakhand	1657	0	36.4	13.7	-0.4	88	0.0
	HP	1117	0	25.6	-9.7	-0.4	201	0.0
	J&K(UT) & Ladakh(UT)	2254	0	43.5	24.8	0.3	199	0.0
	Chandigarh	232	0	4.1	4.5	-0.4	0	0.0
WR	Chhattisgarh	3402	0	79.5	21.8	-0.4	341	0.0
	Gujarat	11175	0	241.4	54.3	-0.1	581	0.0
	MP	7431	0	161.8	66.7	-2.3	308	0.0
	Maharashtra	15709	0	341.2	119.3	0.7	575	0.0
	Goa	318	0	7.1	6.4	0.0	63	0.0
	DD	258	0	5.6	5.4	0.2	29	0.0
	DNH	657	0	14.5	14.7	-0.2	66	0.0
	AMNSIL	786	0	17.7	1.5	0.2	219	0.0
SR	Andhra Pradesh	7605	0	160.2	48.8	2.0	676	0.0
	Telangana	8880	0	176.2	84.7	1.8	825	0.0
	Karnataka	7559	0	149.9	44.0	1.5	581	0.0
	Kerala	3008	0	62.2	41.6	0.2	255	0.0
	Tamil Nadu	11969	0	274.6	126.4	-1.9	736	0.0
	Puducherry	372	0	7.7	7.7	0.1	43	0.0
ER	Bihar	5713	0	109.1	102.6	0.5	519	0.0
	DVC	2837	0	62.5	-42.4	0.1	267	0.0
	Jharkhand	1364	0	26.9	19.8	-1.7	196	0.0
	Odisha	4005	0	81.7	22.6	-0.8	401	0.0
	West Bengal	7263	0	147.9	55.2	1.9	460	0.0
	Sikkim	72	0	0.8	1.1	-0.2	8	0.0
NER	Arunachal Pradesh	108	1	1.9	1.7	0.2	45	0.0
	Assam	1817	65	32.6	29.1	-0.3	90	1.2
	Manipur	193	2	2.7	2.5	0.2	40	0.0
	Meghalaya	300	0	5.6	0.2	-0.1	17	0.0
	Mizoram	83	1	1.6	1.1	0.3	16	0.0
	Nagaland	129	1	2.2	2.5	-0.4	13	0.0
	Tripura	288	0	4.8	5.6	-0.3	44	0.0

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

	Bhutan	Nepal	Bangladesh
Actual (MU)	55.8	-1.2	-23.9
Day Peak (MW)	2404.0	-114.0	-1080.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	305.9	-287.7	83.5	-101.9	0.2	0.0
Actual(MU)	296.8	-316.3	107.1	-93.2	0.0	-5.6
O/D/U/D(MU)	-9.1	-28.7	23.7	8.7	-0.2	-5.6

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL
Central Sector	6118	17058	10162	2365	610	36312
State Sector	15304	28112	15414	6042	11	64883
Total	21422	45169	25576	8407	621	101195

G. Sourcewise generation (MU)

	NR	WR	SR	ER	NER	All India
Coal	403	861	315	409	7	1995
Lignite	26	8	22	0	0	56
Hydro	290	74	119	141	25	649
Nuclear	26	32	46	0	0	104
Gas, Naptha & Diesel	33	46	14	0	26	119
RES (Wind, Solar, Biomass & Others)	77	180	216	5	0	479
Total	855	1202	732	555	57	3401
Share of RES in total generation (%)	9.05	15.02	29.51	0.83	0.12	14.07
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	45.99	23.86	52.06	26.25	43.36	36.21

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.043
Based on State Max Demands	1.072

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-Aug-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	1001	0.0	26.0	-26.0
2	HVDC	PUSAULI B/B	-	0	198	0.0	4.6	-4.6
3	765 kV	GAYA-VARANASI	2	0	469	0.0	8.6	-8.6
4	765 kV	SASARAM-FATEHPUR	1	189	73	1.7	0.0	1.7
5	765 kV	GAYA-BALIA	1	0	480	0.0	7.8	-7.8
6	400 kV	PUSAULI-VARANASI	1	0	205	0.0	3.9	-3.9
7	400 kV	PUSAULI -ALLAHABAD	1	0	70	0.0	0.7	-0.7
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	0	617	0.0	11.6	-11.6
9	400 kV	PATNA-BALIA	4	0	759	0.0	13.6	-13.6
10	400 kV	BIHARSHARIFF-BALIA	2	0	293	0.0	4.5	-4.5
11	400 kV	MOTIHARI-GORAKHPUR	2	0	328	0.0	4.8	-4.8
12	400 kV	BIHARSHARIFF-VARANASI	2	56	163	0.0	1.0	-1.0
13	220 kV	PUSAULI-SAHUPURI	1	0	116	0.0	2.0	-2.0
14	132 kV	SONE NAGAR-RIHAND	1	0	0	0.0	0.0	0.0
15	132 kV	GARWAH-RIHAND	1	30	0	0.7	0.0	0.7
16	132 kV	KARMANASA-SAHUPURI	1	0	0	0.0	0.0	0.0
17	132 kV	KARMANASA-CHANDAULI	1	0	53	0.0	0.0	0.0
					ER-NR	2.4	89.1	-86.7
Import/Export of ER (With WR)								
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	1094	0	14.8	0.0	14.8
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	1359	0	21.7	0.0	21.7
3	765 kV	JHARSUGUDA-DURG	2	170	77	1.1	0.0	1.1
4	400 kV	JHARSUGUDA-RAIGARH	4	235	98	2.0	0.0	2.0
5	400 kV	RANCHI-SIPAT	2	491	0	7.9	0.0	7.9
6	220 kV	BUDHIPADAR-RAIGARH	1	19	71	0.0	0.5	-0.5
7	220 kV	BUDHIPADAR-KORBA	2	162	0	2.8	0.0	2.8
					ER-WR	50.3	0.5	49.8
Import/Export of ER (With SR)								
1	HVDC	JEYPORE-GAZUWAKA B/B	2	0	335	0.0	7.6	-7.6
2	HVDC	TALCHER-KOLAR BIPOLE	2	0	1707	0.0	29.9	-29.9
3	765 kV	ANGUL-SRIKAKULAM	2	0	2404	0.0	42.8	-42.8
4	400 kV	TALCHER-I/C	2	1376	595	4.7	0.0	4.7
5	220 kV	BALIMELA-UPPER-SILERRU	1	1	0	0.0	0.0	0.0
					ER-SR	0.0	80.3	-80.3
Import/Export of ER (With NER)								
1	400 kV	BINAGURI-BONGAIGAON	2	0	398	0.0	4.8	-4.8
2	400 kV	ALIPURDUAR-BONGAIGAON	2	27	476	0.0	5.9	-5.9
3	220 kV	ALIPURDUAR-SALAKATI	2	0	124	0.0	1.9	-1.9
					ER-NER	0.0	12.6	-12.6
Import/Export of NER (With NR)								
1	HVDC	BISWANATH CHARIALI-AGRA	2	0	603	0.0	14.7	-14.7
					NER-NR	0.0	14.7	-14.7
Import/Export of WR (With NR)								
1	HVDC	CHAMPA-KURUKSHETRA	2	0	1249	0.0	31.0	-31.0
2	HVDC	VINDHYACHAL B/B	-	446	0	12.1	0.0	12.1
3	HVDC	MUNDRA-MOHINDERGARH	2	0	1458	0.0	26.7	-26.7
4	765 kV	GWALIOR-AGRA	2	0	2698	0.0	51.0	-51.0
5	765 kV	PHAGI-GWALIOR	2	0	1463	0.0	27.8	-27.8
6	765 kV	JABALPUR-ORAI	2	0	1018	0.0	38.0	-38.0
7	765 kV	GWALIOR-ORAI	1	426	0	8.0	0.0	8.0
8	765 kV	SATNA-ORAI	1	0	1530	0.0	32.1	-32.1
9	765 kV	CHITORGARH-BANASKANTHA	2	0	1233	0.0	17.6	-17.6
10	400 kV	ZERDA-KANKROLI	1	33	222	0.0	2.2	-2.2
11	400 kV	ZERDA -BHINMAL	1	60	331	0.0	2.8	-2.8
12	400 kV	VINDHYACHAL -RIHAND	1	969	0	21.3	0.0	21.3
13	400 kV	RAPP-SHUJALPUR	2	0	564	0.0	9.1	-9.1
14	220 kV	BHANPURA-RANPUR	1	11	0	0.0	2.5	-2.5
15	220 kV	BHANPURA-MORAK	1	0	138	0.0	2.4	-2.4
16	220 kV	MEHGAON-AURAIYA	1	51	41	0.1	0.7	-0.6
17	220 kV	MALANPUR-AURAIYA	1	23	63	0.3	0.3	0.0
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	41.7	244.3	-202.6
Import/Export of WR (With SR)								
1	HVDC	BHADRAWATI B/B	-	0	407	0.0	9.6	-9.6
2	HVDC	RAIGARH-PUGALUR	2	0	1195	0.0	15.1	-15.1
3	765 kV	SOLAPUR-RAICHUR	2	1025	1475	0.0	10.9	-10.9
4	765 kV	WARDHA-NIZAMABAD	2	0	2217	0.0	36.3	-36.3
5	400 kV	KOLHAPUR-KUDGI	2	726	0	8.7	0.0	8.7
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	0	79	1.5	0.0	1.5
					WR-SR	10.1	71.9	-61.7

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 MANGDECHU HEP 4*180MW)	781	775	781	19.5
	ER	400kV TALA-BINAGURI 1,2,4 (& 400kV MALBASE - BINAGURI) i.e. BINAGURI RECEIPT (from TALA HEP (6*170MW)	1027	1012	1027	25.8
	ER	220kV CHUKHA-BIRPARA 1&2 (& 220kV MALBASE - BIRPARA) i.e. BIRPARA RECEIPT (from CHUKHA HEP 4*84MW)	354	0	328	7.9
	NER	132KV-GEYLEGPHU - SALAKATI	56	45	-52	-1.2
	NER	132kV Motanga-Rangia	65	23	-56	-1.3
NEPAL	NR	132KV-TANAKPUR(NH) - MAHENDRANAGAR(PG)	-40	0	-15	-0.4
	ER	132KV-BIHAR - NEPAL	66	1	24	0.6
	ER	220KV-MUZAFFARPUR - DHALKEBAR DC	-140	-2	-57	-1.4
BANGLADESH	ER	BHERAMARA HVDC(BANGLADESH)	-938	-739	-863	-20.7
	NER	132KV-SURAJMANI NAGAR - COMILLA(BANGLADESH)-1	71	0	-66	-1.6
	NER	132KV-SURAJMANI NAGAR - COMILLA(BANGLADESH)-2	71	0	-66	-1.6