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, क़ुतुब इन्स्टीट्यूशनल एरिया, कटवारिया सराये, न्यू दिल्ली-110016

Ref: POSOCO/NLDC/SO/Daily PSP Report

दिनांक: 23rd 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 22.08.2020.

महोदय/Dear Sir,

आई०ई०जी०सी०-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 22-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 22nd 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:** **23-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)	52917	38396	36268	20109	2823	150513
Peak Shortage (MW)	0	0	0	109	156	265
Energy Met (MU)	1131	875	858	426	53	3343
Hydro Gen (MU)	317	53	125	148	26	668
Wind Gen (MU)	14	105	94	-	-	213
Solar Gen (MU)*	38.72	15.42	86.26	4.34	0.03	145
Energy Shortage (MU)	0.0	0.0	0.0	0.3	0.0	0.4
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	54562	37490	40726	20170	2840	148767
Time Of Maximum Demand Met (From NLDC SCADA)	20:44	08:59	09:37	20:29	19:49	19:50

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	0.029	0.00	0.01	3.93	3.95	77.68	18.38

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	9063	0	191.1	133.1	0.1	173	0.0
	Haryana	7969	0	160.1	155.0	1.1	224	0.0
	Rajasthan	9474	0	215.5	77.6	-3.1	525	0.0
	Delhi	4438	0	91.6	79.7	-0.5	116	0.0
	UP	18958	0	359.2	173.9	-2.8	365	0.0
	Uttarakhand	1836	0	39.5	16.7	-0.1	139	0.0
	HP	1296	0	29.3	-1.1	1.1	231	0.0
	J&K(UT) & Ladakh(UT)	2199	0	40.6	22.4	-0.2	380	0.0
	Chandigarh	224	0	4.4	5.0	-0.6	16	0.0
WR	Chhattisgarh	3387	0	78.6	19.7	-0.1	263	0.0
	Gujarat	12100	0	261.0	92.0	3.0	788	0.0
	MP	7186	0	157.4	80.3	-4.1	359	0.0
	Maharashtra	15684	0	332.5	115.6	-2.2	665	0.0
	Goa	319	0	7.3	6.6	0.1	63	0.0
	DD	253	0	5.6	5.5	0.1	28	0.0
	DNH	661	0	15.2	15.4	-0.2	49	0.0
	AMNSIL	771	0	17.4	1.5	0.5	253	0.0
SR	Andhra Pradesh	7869	0	162.9	49.6	0.9	560	0.0
	Telangana	7858	0	157.6	76.2	-0.6	592	0.0
	Karnataka	7907	0	151.6	45.3	0.8	615	0.0
	Kerala	3205	0	67.4	45.4	0.4	197	0.0
	Tamil Nadu	13869	0	311.1	159.9	-0.6	811	0.0
	Puducherry	361	0	7.7	7.9	-0.2	15	0.0
ER	Bihar	5181	0	102.2	96.1	-0.2	635	0.0
	DVC	2830	0	63.5	-34.3	0.7	347	0.0
	Jharkhand	1365	0	26.0	17.9	-1.0	82	0.3
	Odisha	4026	0	83.5	15.8	1.1	555	0.0
	West Bengal	7193	0	150.2	56.2	2.2	670	0.0
	Sikkim	76	0	0.9	1.2	-0.3	13	0.0
NER	Arunachal Pradesh	119	2	1.8	1.9	-0.1	34	0.0
	Assam	1802	110	34.2	30.1	0.3	129	0.0
	Manipur	198	1	2.7	2.5	0.2	58	0.0
	Meghalaya	318	0	5.7	0.1	-0.1	50	0.0
	Mizoram	93	1	1.6	1.2	0.2	28	0.0
	Nagaland	129	1	2.3	2.5	-0.3	5	0.0
	Tripura	277	0	4.5	5.7	-0.3	33	0.0

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

	Bhutan	Nepal	Bangladesh
Actual (MU)	54.0	-2.3	-24.1
Day Peak (MW)	2277.0	-285.4	-1074.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	286.7	-280.0	95.4	-102.0	-0.2	0.0
Actual(MU)	266.8	-293.5	107.2	-96.4	0.2	-15.6
O/D/U/D(MU)	-19.9	-13.5	11.8	5.6	0.4	-15.6

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL
Central Sector	5839	18258	10162	2865	610	37734
State Sector	14939	27144	15414	4972	47	62516
Total	20778	45402	25576	7837	656	100249

G. Sourcewise generation (MU)

	NR	WR	SR	ER	NER	All India
Coal	410	923	334	404	7	2077
Lignite	24	9	22	0	0	55
Hydro	317	53	125	148	26	668
Nuclear	24	32	48	0	0	104
Gas, Naptha & Diesel	34	49	13	0	25	122
RES (Wind, Solar, Biomass & Others)	72	121	210	4	0	407
Total	882	1186	751	556	58	3433
Share of RES in total generation (%)	8.18	10.21	27.91	0.78	0.05	11.86
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	46.83	17.32	50.87	27.41	44.72	34.34

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.047
Based on State Max Demands	1.079

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-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	1003	0.0	23.9	-23.9
2	HVDC	PUSAULI B/B	-	0	198	0.0	5.0	-5.0
3	765 kV	GAYA-VARANASI	2	0	517	0.0	7.1	-7.1
4	765 kV	SASARAM-FATEHPUR	1	189	65	1.7	0.0	1.7
5	765 kV	GAYA-BALIA	1	0	430	0.0	6.9	-6.9
6	400 kV	PUSAULI-VARANASI	1	0	207	0.0	4.2	-4.2
7	400 kV	PUSAULI -ALLAHABAD	1	0	62	0.0	0.6	-0.6
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	0	608	0.0	11.6	-11.6
9	400 kV	PATNA-BALIA	4	0	843	0.0	13.8	-13.8
10	400 kV	BIHARSHARIEF-BALIA	2	0	260	0.0	4.0	-4.0
11	400 kV	MOTIHARI-GORAKHPUR	2	0	340	0.0	4.9	-4.9
12	400 kV	BIHARSHARIEF-VARANASI	2	97	134	0.0	0.8	-0.8
13	220 kV	PUSAULI-SAHUPURI	1	0	106	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	0.4	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	2.2	84.8	-82.6
Import/Export of ER (With WR)								
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	967	0	14.3	0.0	14.3
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	1182	0	18.4	0.0	18.4
3	765 kV	JHARSUGUDA-DURG	2	84	99	0.2	0.0	0.2
4	400 kV	JHARSUGUDA-RAIGARH	4	292	121	2.0	0.0	2.0
5	400 kV	RANCHI-SIPAT	2	398	0	6.8	0.0	6.8
6	220 kV	BUDHIPADAR-RAIGARH	1	12	85	0.0	0.7	-0.7
7	220 kV	BUDHIPADAR-KORBA	2	172	0	2.7	0.0	2.7
					ER-WR	44.4	0.7	43.7
Import/Export of ER (With SR)								
1	HVDC	JEYPORE-GAZUWAKA B/B	2	0	336	0.0	7.6	-7.6
2	HVDC	TALCHER-KOLAR BIPOLE	2	0	1974	0.0	29.8	-29.8
3	765 kV	ANGUL-SRIKAKULAM	2	0	2595	0.0	47.5	-47.5
4	400 kV	TALCHER-I/C	2	1254	227	7.2	0.0	7.2
5	220 kV	BALIMELA-UPPER-SILERRU	1	1	0	0.0	0.0	0.0
					ER-SR	0.0	84.9	-84.9
Import/Export of ER (With NER)								
1	400 kV	BINAGURI-BONGAIGAON	2	0	403	0.0	4.8	-4.8
2	400 kV	ALIPURDUAR-BONGAIGAON	2	0	497	0.0	5.3	-5.3
3	220 kV	ALIPURDUAR-SALAKATI	2	0	127	0.0	1.8	-1.8
					ER-NER	0.0	11.9	-11.9
Import/Export of NER (With NR)								
1	HVDC	BISWANATH CHARIALI-AGRA	2	0	603	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	1001	0.0	39.1	-39.1
2	HVDC	VINDHYACHAL B/B	-	446	0	11.0	0.0	11.0
3	HVDC	MUNDRA-MOHINDERGARH	2	0	1457	0.0	21.6	-21.6
4	765 kV	GWALIOR-AGRA	2	0	2620	0.0	45.1	-45.1
5	765 kV	PHAGI-GWALIOR	2	0	1358	0.0	25.4	-25.4
6	765 kV	JABALPUR-ORAI	2	0	943	0.0	35.4	-35.4
7	765 kV	GWALIOR-ORAI	1	435	0	9.0	0.0	9.0
8	765 kV	SATNA-ORAI	1	0	1507	0.0	29.9	-29.9
9	765 kV	CHITORGARH-BANASKANTHA	2	34	965	0.0	9.8	-9.8
10	400 kV	ZERDA-KANKROLI	1	58	158	0.0	0.9	-0.9
11	400 kV	ZERDA -BHINMAL	1	197	244	0.0	1.5	-1.5
12	400 kV	VINDHYACHAL -RIHAND	1	971	0	21.9	0.0	21.9
13	400 kV	RAPP-SHUJALPUR	2	0	574	0.0	8.2	-8.2
14	220 kV	BHANPURA-RANPUR	1	11	0	0.0	2.0	-2.0
15	220 kV	BHANPURA-MORAK	1	0	130	0.0	2.1	-2.1
16	220 kV	MEHGAON-AURAIYA	1	78	19	0.0	0.3	-0.3
17	220 kV	MALANPUR-AURAIYA	1	47	43	0.5	0.1	0.5
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	42.4	221.4	-179.0
Import/Export of WR (With SR)								
1	HVDC	BHADRAWATI B/B	-	0	488	0.0	9.1	-9.1
2	HVDC	RAIGARH-PUGALUR	2	0	1490	0.0	9.9	-9.9
3	765 kV	SOLAPUR-RAICHUR	2	285	2230	0.0	23.2	-23.2
4	765 kV	WARDHA-NIZAMABAD	2	0	2396	0.0	36.1	-36.1
5	400 kV	KOLHAPUR-KUDGI	2	701	0	6.8	0.0	6.8
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	86	1.5	0.0	1.5
					WR-SR	8.3	78.3	-70.1

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)	774	0	723	17.4
	ER	400kV TALA-BINAGURI 1,2,4 (& 400kV MALBASE - BINAGURI) i.e. BINAGURI RECEIPT (from TALA HEP (6*170MW)	1028	1016	1028	25.9
	ER	220kV CHUKHA-BIRPARA 1&2 (& 220kV MALBASE - BIRPARA) i.e. BIRPARA RECEIPT (from CHUKHA HEP 4*84MW)	354	0	335	8.1
	NER	132KV-GEYLEGPHU - SALAKATI	55	47	-51	-1.2
	NER	132kV Motanga-Rangia	67	60	-60	-1.4
NEPAL	NR	132KV-TANAKPUR(NH) - MAHENDRANAGAR(PG)	-62	0	-40	-1.0
	ER	132KV-BIHAR - NEPAL	-71	-1	-23	-0.6
	ER	220KV-MUZAFFARPUR - DHALKEBAR DC	-152	-4	-32	-0.8
BANGLADESH	ER	BHERAMARA HVDC(BANGLADESH)	-944	-730	-878	-21.1
	NER	132KV-SURAJMANI NAGAR - COMILLA(BANGLADESH)-1	65	0	-62	-1.5
	NER	132KV-SURAJMANI NAGAR - COMILLA(BANGLADESH)-2	65	0	-62	-1.5