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: 12th 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 11.08.2020.

महोदय/Dear Sir,

आई०ई०जी०सी०-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 11-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 11th 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:** **12-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)	59359	41538	37289	22018	2760	162964
Peak Shortage (MW)	0	0	0	0	180	180
Energy Met (MU)	1334	964	864	473	53	3688
Hydro Gen (MU)	346	21	114	150	30	661
Wind Gen (MU)	24	106	192	-	-	321
Solar Gen (MU)*	28.95	15.33	68.72	4.45	0.03	117
Energy Shortage (MU)	0.0	0.0	0.0	0.0	1.3	1.3
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	61162	42096	40684	22489	2747	163719
Time Of Maximum Demand Met (From NLDC SCADA)	22:25	09:56	09:39	20:51	20:03	19:42

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	0.027	0.00	0.69	2.70	3.39	83.12	13.49

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	11244	0	253.4	139.1	-0.9	97	0.0
	Haryana	9207	0	202.3	184.7	1.5	292	0.0
	Rajasthan	10050	0	206.5	78.6	-2.4	275	0.0
	Delhi	5459	0	113.1	99.8	-1.9	244	0.0
	UP	21463	0	438.2	216.9	-1.4	394	0.0
	Uttarakhand	1792	0	39.6	22.0	0.3	155	0.0
	HP	1411	0	31.9	-2.8	-0.6	50	0.0
	J&K(UT) & Ladakh(UT)	2067	0	42.6	16.9	0.2	217	0.0
	Chandigarh	318	0	6.3	6.4	-0.1	27	0.0
WR	Chhattisgarh	3968	0	95.8	33.3	-0.4	185	0.0
	Gujarat	11506	0	257.6	65.1	0.4	579	0.0
	MP	8896	0	200.5	121.3	-1.7	586	0.0
	Maharashtra	16865	0	362.6	120.1	-4.1	560	0.0
	Goa	408	0	8.7	8.2	0.0	77	0.0
	DD	265	0	5.6	5.4	0.2	34	0.0
	DNH	668	0	15.1	15.0	0.1	44	0.0
	AMNSIL	801	0	17.8	7.5	0.2	223	0.0
SR	Andhra Pradesh	7712	0	165.1	39.6	1.1	491	0.0
	Telangana	9738	0	200.7	82.0	2.0	678	0.0
	Karnataka	7780	0	150.6	40.0	-3.5	428	0.0
	Kerala	2975	0	58.8	32.4	0.2	240	0.0
	Tamil Nadu	12935	0	281.6	88.2	-2.8	503	0.0
	Puducherry	374	0	7.7	7.8	-0.1	36	0.0
ER	Bihar	5417	0	116.6	106.2	2.7	400	0.0
	DVC	2902	0	65.5	-41.6	0.1	200	0.0
	Jharkhand	1518	0	28.2	23.6	-0.7	150	0.0
	Odisha	4627	0	88.4	11.5	-0.4	350	0.0
	West Bengal	8469	0	173.6	53.8	2.3	600	0.0
	Sikkim	87	0	1.0	1.2	-0.2	10	0.0
NER	Arunachal Pradesh	106	1	2.3	2.4	-0.1	11	0.0
	Assam	1771	167	33.6	29.9	0.3	182	1.2
	Manipur	179	1	2.6	2.5	0.2	35	0.0
	Meghalaya	287	0	5.2	0.1	-0.5	14	0.0
	Mizoram	97	1	1.6	1.2	0.2	51	0.0
	Nagaland	119	1	2.4	2.4	-0.3	41	0.0
	Tripura	288	0	5.2	6.3	0.0	43	0.0

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

	Bhutan	Nepal	Bangladesh
Actual (MU)	54.3	-3.0	-25.5
Day Peak (MW)	2312.0	-291.4	-1105.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	330.6	-300.9	57.5	-85.4	-1.7	0.0
Actual(MU)	338.0	-308.4	34.8	-64.6	-2.3	-2.5
O/D/U/D(MU)	7.5	-7.5	-22.7	20.7	-0.6	-2.5

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL
Central Sector	4619	14573	12712	3765	610	36278
State Sector	10654	23448	14418	4952	47	53519
Total	15273	38021	27130	8717	656	89797

G. Sourcewise generation (MU)

	NR	WR	SR	ER	NER	All India
Coal	515	1029	318	419	7	2288
Lignite	20	8	25	0	0	53
Hydro	346	21	114	150	30	661
Nuclear	22	32	47	0	0	101
Gas, Naptha & Diesel	44	72	15	0	23	155
RES (Wind, Solar, Biomass & Others)	74	133	320	5	0	531
Total	1020	1294	841	574	61	3789
Share of RES in total generation (%)	7.23	10.27	38.11	0.79	0.05	14.03
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	43.27	14.31	57.35	26.86	50.40	34.13

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.033
Based on State Max Demands	1.061

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: 12-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	1301	0.0	30.6	-30.6
2	HVDC	PUSAULI B/B	-	0	398	0.0	9.5	-9.5
3	765 kV	GAYA-VARANASI	2	22	669	0.0	7.3	-7.3
4	765 kV	SASARAM-FATEHPUR	1	398	128	5.3	0.0	5.3
5	765 kV	GAYA-BALIA	1	0	523	0.0	5.2	-5.2
6	400 kV	PUSAULI-VARANASI	1	0	316	0.0	6.6	-6.6
7	400 kV	PUSAULI -ALLAHABAD	1	0	153	0.0	2.7	-2.7
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	0	540	0.0	8.6	-8.6
9	400 kV	PATNA-BALIA	4	0	920	0.0	14.8	-14.8
10	400 kV	BIHARSHARIFF-BALIA	2	0	319	0.0	4.7	-4.7
11	400 kV	MOTIHARI-GORAKHPUR	2	0	321	0.0	4.9	-4.9
12	400 kV	BIHARSHARIFF-VARANASI	2	223	19	2.6	0.0	2.6
13	220 kV	PUSAULI-SAHUPURI	1	0	133	0.0	2.6	-2.6
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	8.3	97.4	-89.2
Import/Export of ER (With WR)								
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	1193	0	17.1	0.0	17.1
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	1619	0	29.0	0.0	29.0
3	765 kV	JHARSUGUDA-DURG	2	252	0	4.0	0.0	4.0
4	400 kV	JHARSUGUDA-RAIGARH	4	349	21	3.7	0.0	3.7
5	400 kV	RANCHI-SIPAT	2	604	0	10.7	0.0	10.7
6	220 kV	BUDHIPADAR-RAIGARH	1	0	106	0.0	1.2	-1.2
7	220 kV	BUDHIPADAR-KORBA	2	203	0	3.3	0.0	3.3
					ER-WR	67.8	1.2	66.5
Import/Export of ER (With SR)								
1	HVDC	JEYPORE-GAZUWAKA B/B	2	198	537	0.0	6.3	-6.3
2	HVDC	TALCHER-KOLAR BIPOLE	2	0	1735	0.0	35.6	-35.6
3	765 kV	ANGUL-SRIKAKULAM	2	0	1788	0.0	28.1	-28.1
4	400 kV	TALCHER-I/C	2	211	462	0.0	2.5	-2.5
5	220 kV	BALIMELA-UPPER-SILERRU	1	1	0	0.0	0.0	0.0
					ER-SR	0.0	69.9	-69.9
Import/Export of ER (With NER)								
1	400 kV	BINAGURI-BONGAIGAON	2	0	460	0.0	5.7	-5.7
2	400 kV	ALIPURDUAR-BONGAIGAON	2	0	486	0.0	4.4	-4.4
3	220 kV	ALIPURDUAR-SALAKATI	2	0	143	0.0	2.0	-2.0
					ER-NER	0.0	12.1	-12.1
Import/Export of NER (With NR)								
1	HVDC	BISWANATH CHARIALI-AGRA	2	0	704	0.0	17.0	-17.0
					NER-NR	0.0	17.0	-17.0
Import/Export of WR (With NR)								
1	HVDC	CHAMPA-KURUKSHETRA	2	0	1502	0.0	55.8	-55.8
2	HVDC	VINDHYACHAL B/B	-	449	106	6.7	1.0	5.7
3	HVDC	MUNDRA-MOHINDERGARH	2	0	1920	0.0	42.8	-42.8
4	765 kV	GWALIOR-AGRA	2	0	2814	0.0	53.8	-53.8
5	765 kV	PHAGI-GWALIOR	2	0	1440	0.0	25.7	-25.7
6	765 kV	JABALPUR-ORAI	2	0	1106	0.0	41.8	-41.8
7	765 kV	GWALIOR-ORAI	1	385	0	7.7	0.0	7.7
8	765 kV	SATNA-ORAI	1	0	1538	0.0	33.1	-33.1
9	765 kV	CHITORGARH-BANASKANTHA	2	0	1164	0.0	14.0	-14.0
10	400 kV	ZERDA-KANKROLI	1	39	184	0.0	1.5	-1.5
11	400 kV	ZERDA -BHINMAL	1	144	209	0.0	1.4	-1.4
12	400 kV	VINDHYACHAL -RIHAND	1	971	0	22.3	0.0	22.3
13	400 kV	RAPP-SHUJALPUR	2	0	514	0.0	7.6	-7.6
14	220 kV	BHANPURA-RANPUR	1	11	0	0.0	1.8	-1.8
15	220 kV	BHANPURA-MORAK	1	0	77	0.0	1.4	-1.4
16	220 kV	MEHGAON-AURAIYA	1	77	0	0.2	0.1	0.1
17	220 kV	MALANPUR-AURAIYA	1	44	18	0.8	0.0	0.8
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	37.7	281.7	-244.0
Import/Export of WR (With SR)								
1	HVDC	BHADRAWATI B/B	-	178	491	1.1	6.8	-5.7
2	HVDC	RAIGARH-PUGALUR	2	0	0	0.0	0.0	0.0
3	765 kV	SOLAPUR-RAICHUR	2	1709	959	9.5	0.0	9.5
4	765 kV	WARDHA-NIZAMABAD	2	0	1858	0.0	17.7	-17.7
5	400 kV	KOLHAPUR-KUDGI	2	1023	0	15.0	0.0	15.0
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	79	1.0	0.0	1.0
					WR-SR	26.6	24.5	2.0

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)	765	0	748	17.9
	ER	400kV TALA-BINAGURI 1,2,4 (& 400kV MALBASE - BINAGURI) i.e. BINAGURI RECEIPT (from TALA HEP (6*170MW)	1056	1039	1056	25.5
	ER	220kV CHUKHA-BIRPARA 1&2 (& 220kV MALBASE - BIRPARA) i.e. BIRPARA RECEIPT (from CHUKHA HEP 4*84MW)	420	0	342	8.2
	NER	132KV-GEYLEGPHU - SALAKATI	-72	-27	-57	-1.4
	NER	132kV Motanga-Rangia	-79	-31	-52	-1.2
NEPAL	NR	132KV-TANAKPUR(NH) - MAHENDRANAGAR(PG)	-50	0	-28	-0.7
	ER	132KV-BIHAR - NEPAL	-37	0	-2	0.0
	ER	220KV-MUZAFFARPUR - DHALKEBAR DC	-204	-44	-95	-2.3
BANGLADESH	ER	BHERAMARA HVDC(BANGLADESH)	-938	0	-928	-22.3
	NER	132KV-SURAJMANI NAGAR - COMILLA(BANGLADESH)-1	84	0	-68	-1.6

	NER	132KV-SURAJMANI NAGAR - COMILLA(BANGLADESH)-2	83	0	-68	-1.6