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: 11th 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 10.08.2020.

महोदय/Dear Sir,

आई०ई०जी०सी०-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 10-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 10th 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:** **11-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)	60325	42312	36420	21907	2742	163706
Peak Shortage (MW)	380	0	0	198	161	739
Energy Met (MU)	1365	974	821	466	51	3678
Hydro Gen (MU)	354	34	119	146	27	680
Wind Gen (MU)	19	75	166	-	-	261
Solar Gen (MU)*	30.07	13.40	45.72	4.45	0.03	94
Energy Shortage (MU)	0.5	0.0	0.0	0.6	1.7	2.8
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	63317	43219	38133	21980	2804	164374
Time Of Maximum Demand Met (From NLDC SCADA)	22:26	09:41	09:48	20:02	19:03	19:53

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	0.023	0.00	0.00	2.43	2.43	83.22	14.35

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	11507	0	260.7	139.6	-1.2	51	0.0
	Haryana	9381	0	203.1	182.6	1.6	288	0.5
	Rajasthan	10186	0	222.8	81.8	-1.2	438	0.0
	Delhi	5428	0	112.0	98.1	-1.2	177	0.0
	UP	22554	0	444.7	222.6	0.3	824	0.0
	Uttarakhand	1831	0	40.0	22.3	0.6	166	0.0
	HP	1337	0	30.6	-3.2	-1.8	0	0.0
	J&K(UT) & Ladakh(UT)	2252	0	44.8	19.1	0.0	217	0.0
	Chandigarh	311	0	6.3	6.3	0.0	24	0.0
WR	Chhattisgarh	4098	0	94.7	34.3	0.2	251	0.0
	Gujarat	11870	0	261.0	62.0	1.4	761	0.0
	MP	8817	0	199.1	117.8	-1.7	446	0.0
	Maharashtra	17419	0	373.3	133.0	-1.5	818	0.0
	Goa	391	0	8.2	8.0	-0.4	25	0.0
	DD	255	0	5.3	5.2	0.1	24	0.0
	DNH	662	0	14.8	14.6	0.2	47	0.0
	AMNSIL	795	0	17.8	7.7	0.1	229	0.0
SR	Andhra Pradesh	7239	0	158.7	39.4	0.6	541	0.0
	Telangana	9325	0	198.3	111.3	-5.2	547	0.0
	Karnataka	7595	0	145.3	42.9	-0.6	567	0.0
	Kerala	2825	0	55.8	28.5	0.2	182	0.0
	Tamil Nadu	12695	0	256.1	83.8	-3.0	780	0.0
	Puducherry	353	0	7.3	7.5	-0.3	19	0.0
ER	Bihar	5422	0	115.9	103.8	2.8	428	0.0
	DVC	2931	0	64.6	-42.0	0.1	258	0.0
	Jharkhand	1525	198	27.8	23.3	-0.5	190	0.6
	Odisha	4555	0	87.2	9.6	-0.3	512	0.0
	West Bengal	8273	0	170.0	49.8	1.0	426	0.0
	Sikkim	72	0	0.9	1.1	-0.2	7	0.0
NER	Arunachal Pradesh	107	1	1.9	2.0	0.0	42	0.0
	Assam	1790	145	32.8	28.6	0.4	136	1.6
	Manipur	179	1	2.7	2.5	0.2	37	0.0
	Meghalaya	287	0	5.0	0.0	-0.4	16	0.0
	Mizoram	84	1	1.5	1.2	0.1	16	0.0
	Nagaland	124	1	2.3	2.4	-0.4	30	0.0
	Tripura	296	0	5.2	6.5	-0.5	58	0.0

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

	Bhutan	Nepal	Bangladesh
Actual (MU)	53.7	-3.3	-25.2
Day Peak (MW)	2560.0	-200.4	-1084.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	353.3	-337.8	79.7	-94.6	-0.5	0.0
Actual(MU)	362.0	-341.6	52.4	-75.1	-1.3	-3.6
O/D/U/D(MU)	8.7	-3.8	-27.3	19.6	-0.8	-3.6

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL
Central Sector	5119	14247	12712	3765	610	36452
State Sector	10044	20787	15218	5162	47	51258
Total	15163	35034	27930	8927	656	87710

G. Sourcewise generation (MU)

	NR	WR	SR	ER	NER	All India
Coal	523	1087	300	425	7	2342
Lignite	21	10	30	0	0	60
Hydro	354	34	119	146	27	680
Nuclear	22	32	47	0	0	101
Gas, Naptha & Diesel	43	69	14	0	24	150
RES (Wind, Solar, Biomass & Others)	69	106	266	5	0	446
Total	1032	1337	777	575	58	3779

Share of RES in total generation (%)	6.73	7.89	34.27	0.79	0.05	11.79
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	43.12	12.83	55.70	26.15	46.64	32.46

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.031
Based on State Max Demands	1.063

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: 11-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	1302	0.0	30.6	-30.6
2	HVDC	PUSAULI B/B	-	0	399	0.0	9.7	-9.7
3	765 kV	GAYA-VARANASI	2	32	620	0.0	8.3	-8.3
4	765 kV	SASARAM-FATEHPUR	1	371	0	5.3	0.0	5.3
5	765 kV	GAYA-BALIA	1	0	569	0.0	5.3	-5.3
6	400 kV	PUSAULI-VARANASI	1	0	302	0.0	6.7	-6.7
7	400 kV	PUSAULI -ALLAHABAD	1	0	146	0.0	2.8	-2.8
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	0	544	0.0	8.8	-8.8
9	400 kV	PATNA-BALIA	4	0	958	0.0	14.4	-14.4
10	400 kV	BIHARSHARIFF-BALIA	2	0	356	0.0	4.4	-4.4
11	400 kV	MOTIHARI-GORAKHPUR	2	0	327	0.0	5.2	-5.2
12	400 kV	BIHARSHARIFF-VARANASI	2	182	23	2.3	0.0	2.3
13	220 kV	PUSAULI-SAHUPURI	1	0	130	0.0	2.5	-2.5
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	8.1	98.5	-90.5
Import/Export of ER (With WR)								
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	1241	0	17.1	0.0	17.1
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	1554	0	26.3	0.0	26.3
3	765 kV	JHARSUGUDA-DURG	2	271	0	3.1	0.0	3.1
4	400 kV	JHARSUGUDA-RAIGARH	4	314	4	3.0	0.0	3.0
5	400 kV	RANCHI-SIPAT	2	566	0	9.9	0.0	9.9
6	220 kV	BUDHIPADAR-RAIGARH	1	0	84	0.0	1.1	-1.1
7	220 kV	BUDHIPADAR-KORBA	2	218	0	3.9	0.0	3.9
					ER-WR	63.3	1.1	62.2
Import/Export of ER (With SR)								
1	HVDC	JEYPORE-GAZUWAKA B/B	2	0	540	0.0	12.5	-12.5
2	HVDC	TALCHER-KOLAR BIPOLE	2	0	1769	0.0	34.0	-34.0
3	765 kV	ANGUL-SRIKAKULAM	2	0	1974	0.0	28.2	-28.2
4	400 kV	TALCHER-I/C	2	230	543	0.4	0.0	0.4
5	220 kV	BALIMELA-UPPER-SILERRU	1	1	0	0.0	0.0	0.0
					ER-SR	0.0	74.7	-74.7
Import/Export of ER (With NER)								
1	400 kV	BINAGURI-BONGAIGAON	2	0	452	0.0	6.1	-6.1
2	400 kV	ALIPURDUAR-BONGAIGAON	2	0	471	0.0	5.0	-5.0
3	220 kV	ALIPURDUAR-SALAKATI	2	0	133	0.0	2.1	-2.1
					ER-NER	0.0	13.2	-13.2
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	1503	0.0	58.8	-58.8
2	HVDC	VINDHYACHAL B/B	-	93	0	2.2	0.0	2.2
3	HVDC	MUNDRA-MOHINDERGARH	2	0	1921	0.0	41.5	-41.5
4	765 kV	GWALIOR-AGRA	2	0	3152	0.0	56.1	-56.1
5	765 kV	PHAGI-GWALIOR	2	0	1341	0.0	25.3	-25.3
6	765 kV	JABALPUR-ORAI	2	0	1164	0.0	43.8	-43.8
7	765 kV	GWALIOR-ORAI	1	481	0	7.3	0.0	7.3
8	765 kV	SATNA-ORAI	1	0	1642	0.0	35.4	-35.4
9	765 kV	CHITORGARH-BANASKANTHA	2	0	1171	0.0	18.8	-18.8
10	400 kV	ZERDA-KANKROLI	1	0	194	0.0	2.4	-2.4
11	400 kV	ZERDA -BHINMAL	1	14	282	0.0	2.6	-2.6
12	400 kV	VINDHYACHAL -RIHAND	1	971	0	22.6	0.0	22.6
13	400 kV	RAPP-SHUJALPUR	2	0	517	0.0	8.2	-8.2
14	220 kV	BHANPURA-RANPUR	1	11	0	0.0	1.9	-1.9
15	220 kV	BHANPURA-MORAK	1	0	114	0.0	1.7	-1.7
16	220 kV	MEHGAON-AURAIYA	1	73	5	0.2	0.1	0.1
17	220 kV	MALANPUR-AURAIYA	1	39	32	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	33.0	296.8	-263.8
Import/Export of WR (With SR)								
1	HVDC	BHADRAWATI B/B	-	178	403	0.0	10.6	-10.6
2	HVDC	RAIGARH-PUGALUR	2	0	0	0.0	0.0	0.0
3	765 kV	SOLAPUR-RAICHUR	2	1237	1011	7.6	0.0	7.6
4	765 kV	WARDHA-NIZAMABAD	2	0	2192	0.0	25.8	-25.8
5	400 kV	KOLHAPUR-KUDGI	2	899	0	13.5	0.0	13.5
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	92	1.6	0.0	1.6
					WR-SR	22.6	36.4	-13.9

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	726	17.4
	ER	400kV TALA-BINAGURI 1,2,4 (& 400kV MALBASE - BINAGURI) i.e. BINAGURI RECEIPT (from TALA HEP (6*170MW)	1294	1034	1050	25.2
	ER	220kV CHUKHA-BIRPARA 1&2 (& 220kV MALBASE - BIRPARA) i.e. BIRPARA RECEIPT (from CHUKHA HEP 4*84MW)	370	334	335	8.1
	NER	132KV-GEYLEGPHU - SALAKATI	65	44	-48	-1.2
	NER	132kV Motanga-Rangia	65	35	-58	-1.4
NEPAL	NR	132KV-TANAKPUR(NH) - MAHENDRANAGAR(PG)	-62	0	-40	-1.0
	ER	132KV-BIHAR - NEPAL	84	5	21	0.5
	ER	220KV-MUZAFFARPUR - DHALKEBAR DC	-222	-56	-119	-2.9
BANGLADESH	ER	BHERAMARA HVDC(BANGLADESH)	-938	-923	-928	-22.3
	NER	132KV-SURAJMANI NAGAR - COMILLA(BANGLADESH)-1	73	0	-60	-1.5
	NER	132KV-SURAJMANI NAGAR - COMILLA(BANGLADESH)-2	73	0	-60	-1.5