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: 09th 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 08.08.2020.

महोदय/Dear Sir,

आई०ई०जी०सी०-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 08-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 08th 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:** **09-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)	61649	42428	38504	21387	2796	166764
Peak Shortage (MW)	1385	0	0	0	5	1390
Energy Met (MU)	1429	985	920	453	54	3840
Hydro Gen (MU)	359	25	123	139	26	671
Wind Gen (MU)	11	132	192	-	-	334
Solar Gen (MU)*	26.04	18.40	63.49	4.82	0.03	113
Energy Shortage (MU)	0.8	0.0	0.0	0.0	0.0	0.8
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	64851	42302	43519	21632	2793	167499
Time Of Maximum Demand Met (From NLDC SCADA)	22:20	09:49	09:20	23:09	19:07	19:59

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	0.042	0.00	1.26	9.06	10.32	81.19	8.48

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	12729	0	291.0	148.0	-0.5	94	0.0
	Haryana	10060	13	215.1	188.8	1.9	266	0.7
	Rajasthan	9856	0	223.0	88.6	-2.2	280	0.0
	Delhi	5722	0	113.7	99.2	-2.0	85	0.0
	UP	22891	0	458.6	227.2	1.9	365	0.1
	Uttarakhand	1997	0	44.1	22.2	1.5	197	0.0
	HP	1455	0	32.7	-2.8	-0.6	35	0.0
	J&K(UT) & Ladakh(UT)	2264	0	44.2	19.0	-0.5	169	0.0
	Chandigarh	330	0	6.7	6.0	0.6	62	0.0
WR	Chhattisgarh	4003	0	95.2	32.9	0.0	273	0.0
	Gujarat	12467	0	274.9	71.5	-0.2	875	0.0
	MP	8735	0	198.7	113.0	-3.1	377	0.0
	Maharashtra	16620	0	369.4	124.7	-2.4	418	0.0
	Goa	425	0	8.5	8.4	-0.2	71	0.0
	DD	258	0	5.6	5.5	0.1	23	0.0
	DNH	634	0	14.4	14.5	-0.1	35	0.0
	AMNSIL	792	0	17.8	6.8	0.7	271	0.0
SR	Andhra Pradesh	8332	0	170.7	43.9	-0.4	557	0.0
	Telangana	12412	0	250.3	116.1	-1.1	780	0.0
	Karnataka	7739	0	149.9	39.6	-4.1	425	0.0
	Kerala	2678	0	56.4	31.4	1.0	172	0.0
	Tamil Nadu	12807	0	284.3	87.9	-4.1	797	0.0
	Puducherry	378	0	8.0	8.1	-0.1	77	0.0
ER	Bihar	5601	0	114.9	104.6	2.2	303	0.0
	DVC	2987	0	64.3	-42.2	0.5	496	0.0
	Jharkhand	1541	0	26.6	21.5	-1.0	118	0.0
	Odisha	4272	0	83.5	7.6	-0.4	364	0.0
	West Bengal	8102	0	163.1	50.2	0.5	766	0.0
	Sikkim	74	0	0.9	1.2	-0.3	11	0.0
NER	Arunachal Pradesh	104	1	1.8	1.8	0.1	20	0.0
	Assam	1796	30	35.0	31.7	-0.3	103	0.0
	Manipur	192	1	2.6	2.5	0.1	26	0.0
	Meghalaya	326	0	5.3	0.2	-0.1	23	0.0
	Mizoram	95	2	1.5	1.2	0.1	29	0.0
	Nagaland	124	1	2.3	2.4	-0.3	15	0.0
	Tripura	307	1	5.1	5.5	0.5	85	0.0

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

	Bhutan	Nepal	Bangladesh
Actual (MU)	53.6	-3.0	-25.8
Day Peak (MW)	2382.0	-312.5	-1107.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	371.6	-339.0	73.8	-112.1	5.7	0.0
Actual(MU)	382.4	-347.2	65.2	-97.8	7.0	9.6
O/D/U/D(MU)	10.7	-8.2	-8.5	14.3	1.3	9.6

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL
Central Sector	5619	15332	13062	3765	546	38324
State Sector	10469	23163	14418	5465	47	53561
Total	16088	38495	27480	9230	593	91885

G. Sourcewise generation (MU)

	NR	WR	SR	ER	NER	All India
Coal	568	1069	354	441	7	2439
Lignite	22	9	28	0	0	58
Hydro	359	25	123	139	26	671
Nuclear	21	33	48	0	0	102
Gas, Naptha & Diesel	45	54	13	0	21	133
RES (Wind, Solar, Biomass & Others)	59	175	313	5	0	552
Total	1074	1365	878	585	53	3955
Share of RES in total generation (%)	5.46	12.83	35.63	0.83	0.06	13.95
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	40.89	17.05	55.00	24.57	48.61	33.49

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.045
Based on State Max Demands	1.081

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: 09-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	31.3	-31.3
2	HVDC	PUSAULI B/B	-	0	399	0.0	9.5	-9.5
3	765 kV	GAYA-VARANASI	2	0	623	0.0	7.6	-7.6
4	765 kV	SASARAM-FATEHPUR	1	272	0	4.4	0.0	4.4
5	765 kV	GAYA-BALIA	1	0	524	0.0	4.3	-4.3
6	400 kV	PUSAULI-VARANASI	1	0	312	0.0	7.0	-7.0
7	400 kV	PUSAULI-ALLAHABAD	1	0	138	0.0	2.5	-2.5
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	0	509	0.0	7.8	-7.8
9	400 kV	PATNA-BALIA	4	0	832	0.0	16.1	-16.1
10	400 kV	BIHARSHARIFF-BALIA	2	0	297	0.0	4.1	-4.1
11	400 kV	MOTIHARI-GORAKHPUR	2	0	336	0.0	5.7	-5.7
12	400 kV	BIHARSHARIFF-VARANASI	2	223	0	3.1	0.0	3.1
13	220 kV	PUSAULI-SAHUPURI	1	0	119	0.0	2.3	-2.3
14	132 kV	SONE NAGAR-RIHAND	1	0	0	0.0	0.0	0.0
15	132 kV	GARWAH-RIHAND	1	30	0	0.5	0.0	0.5
16	132 kV	KARMANASA-SAHUPURI	1	0	0	0.0	0.0	0.0
17	132 kV	KARMANASA-CHANDAULI	1	0	43	0.0	0.0	0.0
					ER-NR	8.1	98.2	-90.2
Import/Export of ER (With WR)								
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	1122	0	15.5	0.0	15.5
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	1587	0	23.8	0.0	23.8
3	765 kV	JHARSUGUDA-DURG	2	219	0	2.9	0.0	2.9
4	400 kV	JHARSUGUDA-RAIGARH	4	304	48	4.0	0.0	4.0
5	400 kV	RANCHI-SIPAT	2	472	0	6.1	0.0	6.1
6	220 kV	BUDHIPADAR-RAIGARH	1	1	89	0.0	0.9	-0.9
7	220 kV	BUDHIPADAR-KORBA	2	196	0	3.6	0.0	3.6
					ER-WR	55.8	0.9	54.9
Import/Export of ER (With SR)								
1	HVDC	JEYPORE-GAZUWAKA B/B	2	0	544	0.0	12.5	-12.5
2	HVDC	TALCHER-KOLAR BIPOLE	2	0	1989	0.0	38.6	-38.6
3	765 kV	ANGUL-SRIKAKULAM	2	0	2259	0.0	32.0	-32.0
4	400 kV	TALCHER-I/C	2	247	616	0.0	3.9	-3.9
5	220 kV	BALIMELA-UPPER-SILERRU	1	1	0	0.0	0.0	0.0
					ER-SR	0.0	83.1	-83.1
Import/Export of ER (With NER)								
1	400 kV	BINAGURI-BONGAIGAON	2	0	520	0.0	9.1	-9.1
2	400 kV	ALIPURDUAR-BONGAIGAON	2	0	575	0.0	9.7	-9.7
3	220 kV	ALIPURDUAR-SALAKATI	2	0	141	0.0	2.6	-2.6
					ER-NER	0.0	21.3	-21.3
Import/Export of NER (With NR)								
1	HVDC	BISWANATH CHARIALI-AGRA	2	0	705	0.0	16.6	-16.6
					NER-NR	0.0	16.6	-16.6
Import/Export of WR (With NR)								
1	HVDC	CHAMPA-KURUKSHETRA	2	0	1754	0.0	75.8	-75.8
2	HVDC	VINDHYACHAL B/B	-	0	496	0.0	8.7	-8.7
3	HVDC	MUNDRA-MOHINDERGARH	2	0	1920	0.0	25.0	-25.0
4	765 kV	GWALIOR-AGRA	2	0	3113	0.0	59.6	-59.6
5	765 kV	PHAGI-GWALIOR	2	0	1312	0.0	26.6	-26.6
6	765 kV	JABALPUR-ORAI	2	0	1187	0.0	44.2	-44.2
7	765 kV	GWALIOR-ORAI	1	373	0	8.0	0.0	8.0
8	765 kV	SATNA-ORAI	1	0	1627	0.0	34.2	-34.2
9	765 kV	CHITORGARH-BANASKANTHA	2	0	1638	0.0	16.6	-16.6
10	400 kV	ZERDA-KANKROLI	1	0	302	0.0	3.6	-3.6
11	400 kV	ZERDA -BHINMAL	1	0	405	0.0	5.2	-5.2
12	400 kV	VINDHYACHAL -RIHAND	1	971	0	22.6	0.0	22.6
13	400 kV	RAPP-SHUJALPUR	2	0	565	0.0	9.0	-9.0
14	220 kV	BHANPURA-RANPUR	1	11	0	0.0	2.3	-2.3
15	220 kV	BHANPURA-MORAK	1	0	134	0.0	2.3	-2.3
16	220 kV	MEHGAON-AURAIYA	1	100	0	0.1	0.0	0.1
17	220 kV	MALANPUR-AURAIYA	1	64	23	0.9	0.0	0.9
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	31.6	313.1	-281.5
Import/Export of WR (With SR)								
1	HVDC	BHADRAWATI B/B	-	348	776	2.9	5.6	-2.7
2	HVDC	RAIGARH-PUGALUR	2	0	0	0.0	0.0	0.0
3	765 kV	SOLAPUR-RAICHUR	2	1406	1239	7.8	5.7	2.0
4	765 kV	WARDHA-NIZAMABAD	2	0	2472	0.0	30.9	-30.9
5	400 kV	KOLHAPUR-KUDGI	2	1138	0	15.7	0.0	15.7
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	80	1.4	0.0	1.4
					WR-SR	27.7	42.2	-14.5

INTERNATIONAL EXCHANGES

State	Region	Line Name	Max (MW)	Min (MW)	Avg (MW)	Energy Exchange (MU)
	ER	400kV MANGDECHHU-ALIPURDUAR 1&2 i.e. ALIPURDUAR RECEIPT (from MANGDECHU HEP 4*180MW)	763	760	761	18.3
	ER	400kV MANGDECHHU-ALIPURDUAR 1&2 i.e. ALIPURDUAR RECEIPT (from MANGDECHU HEP 4*180MW)	763	760	761	18.3
	ER	400kV TALA-BINAGURI 1,2,4 (& 400kV MALBASE - BINAGURI) i.e. BINAGURI RECEIPT (from TALA HEP (6*170MW)	1146	0	1035	24.9
	ER	400kV TALA-BINAGURI 1,2,4 (& 400kV MALBASE - BINAGURI) i.e. BINAGURI RECEIPT (from TALA HEP (6*170MW)	1146	0	1035	24.9
BHUTAN	ER	220kV CHUKHA-BIRPARA 1&2 (& 220kV MALBASE - BIRPARA) i.e. BIRPARA RECEIPT (from CHUKHA HEP 4*84MW)	364	0	337	8.1
BHUTAN	ER	220kV CHUKHA-BIRPARA 1&2 (& 220kV MALBASE - BIRPARA) i.e. BIRPARA RECEIPT (from CHUKHA HEP 4*84MW)	364	0	337	8.1
	NER	132KV-GEYLEGPHU - SALAKATI	65	52	-59	-1.4
	NER	132KV-GEYLEGPHU - SALAKATI	65	52	-59	-1.4
	NER	132kV Motanga-Rangia	43	36	-39	-0.9
	NER	132kV Motanga-Rangia	43	36	-39	-0.9
	NR	132KV-TANAKPUR(NH) - MAHENDRANAGAR(PG)	-61	0	-38	-0.9
	NR	132KV-TANAKPUR(NH) - MAHENDRANAGAR(PG)	-61	0	-38	-0.9
NEPAL	ER	132KV-BIHAR - NEPAL	-70	-8	-21	-0.5
NEPAL	ER	132KV-BIHAR - NEPAL	-70	-8	-21	-0.5
	ER	220KV-MUZAFFARPUR - DHALKEBAR DC	-182	-4	-68	-1.6
	ER	220KV-MUZAFFARPUR - DHALKEBAR DC	-182	-4	-68	-1.6
	ER	BHERAMARA HVDC(BANGLADESH)	-938	-925	-932	-22.4
	ER	BHERAMARA HVDC(BANGLADESH)	-938	-925	-932	-22.4
BANGLADESH	NER	132KV-SURAJMANI NAGAR - COMILLA(BANGLADESH)-1	85	0	-73	-1.7
BANGLADESH	NER	132KV-SURAJMANI NAGAR - COMILLA(BANGLADESH)-1	85	0	-73	-1.7
	NER	132KV-SURAJMANI NAGAR - COMILLA(BANGLADESH)-2	84	0	-72	-1.7
	NER	132KV-SURAJMANI NAGAR - COMILLA(BANGLADESH)-2	84	0	-72	-1.7