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: 13th 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 12.08.2020.

महोदय/Dear Sir,

आई०ई०जी०सी०-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 12-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 12th 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: 13-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)	58193	39023	37613	21652	2850	159331
Peak Shortage (MW)	0	0	0	0	123	123
Energy Met (MU)	1312	915	872	458	54	3612
Hydro Gen (MU)	336	19	117	143	31	645
Wind Gen (MU)	45	161	205	-	-	411
Solar Gen (MU)*	38.48	12.60	55.05	4.25	0.04	110
Energy Shortage (MU)	0.4	0.0	0.0	0.0	1.6	1.9
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	60841	39707	41563	21914	2910	160766
Time Of Maximum Demand Met (From NLDC SCADA)	20:58	10:30	09:12	21:51	19:29	19:40

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	4.46	4.46	80.66	14.88

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	11675	0	263.3	146.4	-1.3	103	0.0
	Haryana	9265	0	200.4	184.1	2.2	369	0.0
	Rajasthan	10164	0	225.4	68.6	-3.1	276	0.0
	Delhi	5323	0	111.0	95.6	-0.9	179	0.0
	UP	20115	0	390.5	190.7	-2.3	511	0.3
	Uttarakhand	1794	0	38.9	21.5	0.4	133	0.0
	HP	1393	0	31.6	-4.5	0.8	514	0.0
	J&K(UT) & Ladakh(UT)	2201	0	45.1	19.3	0.3	212	0.0
	Chandigarh	279	0	5.6	5.9	-0.3	31	0.0
WR	Chhattisgarh	3966	0	95.6	31.0	-0.7	270	0.0
	Gujarat	10059	0	219.2	36.9	-5.8	781	0.0
	MP	8483	0	193.5	119.0	-1.9	434	0.0
	Maharashtra	16788	0	360.4	105.3	-4.3	734	0.0
	Goa	417	0	8.7	8.3	-0.2	64	0.0
	DD	263	0	5.6	5.4	0.2	44	0.0
	DNH	652	0	14.7	14.8	-0.1	40	0.0
	AMNSIL	836	0	17.7	6.2	0.3	270	0.0
SR	Andhra Pradesh	7623	0	163.3	35.5	0.6	414	0.0
	Telangana	10302	0	207.6	85.3	1.0	994	0.0
	Karnataka	7938	0	153.7	36.3	-1.8	599	0.0
	Kerala	3018	0	61.7	33.7	0.3	206	0.0
	Tamil Nadu	13267	0	278.3	88.3	-0.8	1009	0.0
	Puducherry	371	0	7.9	7.8	0.0	55	0.0
ER	Bihar	5201	0	98.6	92.8	-1.3	150	0.0
	DVC	2913	0	64.1	-45.2	0.3	265	0.0
	Jharkhand	1411	0	27.3	24.0	-2.6	105	0.0
	Odisha	4462	0	88.8	13.7	-1.0	495	0.0
	West Bengal	8405	0	178.0	56.9	2.2	455	0.0
	Sikkim	78	0	1.0	1.3	-0.3	15	0.0
NER	Arunachal Pradesh	108	1	2.0	2.2	-0.1	20	0.0
	Assam	1866	92	35.8	31.2	1.2	127	1.5
	Manipur	182	3	2.6	2.5	0.0	32	0.0
	Meghalaya	290	0	5.1	0.0	-0.5	21	0.0
	Mizoram	93	2	1.6	1.3	0.1	16	0.0
	Nagaland	127	1	2.2	2.4	-0.6	11	0.0
	Tripura	284	3	5.0	6.5	0.0	44	0.0

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

	Bhutan	Nepal	Bangladesh
Actual (MU)	54.7	-2.4	-25.8
Day Peak (MW)	2299.0	-202.0	-1158.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	325.6	-304.5	55.4	-76.7	0.2	0.0
Actual(MU)	324.0	-320.8	66.9	-66.9	0.1	3.3
O/D/U/D(MU)	-1.6	-16.3	11.5	9.7	-0.1	3.3

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL
Central Sector	4619	15792	12712	3765	610	37497
State Sector	10519	25344	14418	4082	47	54410
Total	15138	41136	27130	7847	656	91907

G. Sourcewise generation (MU)

	NR	WR	SR	ER	NER	All India
Coal	486	955	301	401	7	2149
Lignite	20	9	27	0	0	56
Hydro	336	19	117	143	31	645
Nuclear	21	32	48	0	0	101
Gas, Naptha & Diesel	45	51	14	0	23	134
RES (Wind, Solar, Biomass & Others)	105	197	317	4	0	623
Total	1014	1263	823	548	61	3708
Share of RES in total generation (%)	10.33	15.64	38.49	0.79	0.07	16.81
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	45.62	19.63	58.49	26.82	50.83	36.93

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.050
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: 13-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	31.6	-31.6
2	HVDC	PUSAULI B/B	-	0	397	0.0	9.8	-9.8
3	765 kV	GAYA-VARANASI	2	0	619	0.0	8.1	-8.1
4	765 kV	SASARAM-FATEHPUR	1	369	0	5.0	0.0	5.0
5	765 kV	GAYA-BALIA	1	0	439	0.0	4.6	-4.6
6	400 kV	PUSAULI-VARANASI	1	0	323	0.0	6.6	-6.6
7	400 kV	PUSAULI -ALLAHABAD	1	0	160	0.0	2.8	-2.8
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	0	508	0.0	9.6	-9.6
9	400 kV	PATNA-BALIA	4	0	577	0.0	10.6	-10.6
10	400 kV	BIHARSHARIFF-BALIA	2	0	272	0.0	3.2	-3.2
11	400 kV	MOTIHARI-GORAKHPUR	2	0	272	0.0	4.2	-4.2
12	400 kV	BIHARSHARIFF-VARANASI	2	273	46	2.3	0.0	2.3
13	220 kV	PUSAULI-SAHUPURI	1	0	119	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	7.8	93.1	-85.3
Import/Export of ER (With WR)								
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	1328	0	22.1	0.0	22.1
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	1422	0	25.8	0.0	25.8
3	765 kV	JHARSUGUDA-DURG	2	391	0	4.2	0.0	4.2
4	400 kV	JHARSUGUDA-RAIGARH	4	331	21	4.2	0.0	4.2
5	400 kV	RANCHI-SIPAT	2	535	0	9.7	0.0	9.7
6	220 kV	BUDHIPADAR-RAIGARH	1	0	88	0.0	1.2	-1.2
7	220 kV	BUDHIPADAR-KORBA	2	216	0	3.4	0.0	3.4
					ER-WR	69.4	1.2	68.1
Import/Export of ER (With SR)								
1	HVDC	JEYPORE-GAZUWAKA B/B	2	198	0	4.9	0.0	4.9
2	HVDC	TALCHER-KOLAR BIPOLE	2	0	1739	0.0	37.0	-37.0
3	765 kV	ANGUL-SRIKAKULAM	2	0	2280	0.0	36.0	-36.0
4	400 kV	TALCHER-I/C	2	208	939	0.0	11.5	-11.5
5	220 kV	BALIMELA-UPPER-SILERRU	1	1	0	0.0	0.0	0.0
					ER-SR	4.9	72.9	-68.1
Import/Export of ER (With NER)								
1	400 kV	BINAGURI-BONGAIGAON	2	0	533	0.0	6.5	-6.5
2	400 kV	ALIPURDUAR-BONGAIGAON	2	0	603	0.0	5.7	-5.7
3	220 kV	ALIPURDUAR-SALAKATI	2	0	157	0.0	2.3	-2.3
					ER-NER	0.0	14.4	-14.4
Import/Export of NER (With NR)								
1	HVDC	BISWANATH CHARIALI-AGRA	2	0	704	0.0	16.9	-16.9
					NER-NR	0.0	16.9	-16.9
Import/Export of WR (With NR)								
1	HVDC	CHAMPA-KURUKSHETRA	2	0	1505	0.0	42.1	-42.1
2	HVDC	VINDHYACHAL B/B	-	448	106	7.4	1.0	6.5
3	HVDC	MUNDRA-MOHINDERGARH	2	0	1921	0.0	35.6	-35.6
4	765 kV	GWALIOR-AGRA	2	0	2900	0.0	54.1	-54.1
5	765 kV	PHAGI-GWALIOR	2	0	1296	0.0	25.4	-25.4
6	765 kV	JABALPUR-ORAI	2	0	1085	0.0	43.5	-43.5
7	765 kV	GWALIOR-ORAI	1	393	0	7.5	0.0	7.5
8	765 kV	SATNA-ORAI	1	0	1541	0.0	33.0	-33.0
9	765 kV	CHITORGARH-BANASKANTHA	2	0	1496	0.0	23.5	-23.5
10	400 kV	ZERDA-KANKROLI	1	2	207	0.0	2.8	-2.8
11	400 kV	ZERDA -BHINMAL	1	114	158	0.0	0.7	-0.7
12	400 kV	VINDHYACHAL -RIHAND	1	970	0	22.5	0.0	22.5
13	400 kV	RAPP-SHUJALPUR	2	0	490	0.0	7.3	-7.3
14	220 kV	BHANPURA-RANPUR	1	11	0	0.0	2.0	-2.0
15	220 kV	BHANPURA-MORAK	1	0	91	0.0	1.5	-1.5
16	220 kV	MEHGAON-AURAIYA	1	110	2	0.0	0.1	0.0
17	220 kV	MALANPUR-AURAIYA	1	18	35	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	38.4	272.6	-234.2
Import/Export of WR (With SR)								
1	HVDC	BHADRAWATI B/B	-	273	491	5.1	1.6	3.5
2	HVDC	RAIGARH-PUGALUR	2	0	1000	0.0	2.9	-2.9
3	765 kV	SOLAPUR-RAICHUR	2	1087	1236	7.3	7.7	-0.4
4	765 kV	WARDHA-NIZAMABAD	2	0	2541	0.0	31.9	-31.9
5	400 kV	KOLHAPUR-KUDGI	2	961	0	12.4	0.0	12.4
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	75	1.4	0.0	1.4
					WR-SR	26.2	44.1	-17.8

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)	766	0	759	18.2
	ER	400kV TALA-BINAGURI 1,2,4 (& 400kV MALBASE - BINAGURI) i.e. BINAGURI RECEIPT (from TALA HEP (6*170MW)	1222	1054	1058	25.4
	ER	220kV CHUKHA-BIRPARA 1&2 (& 220kV MALBASE - BIRPARA) i.e. BIRPARA RECEIPT (from CHUKHA HEP 4*84MW)	381	0	357	8.6
	NER	132KV-GEYLEGPHU - SALAKATI	-72	-50	-66	-1.6
	NER	132kV Motanga-Rangia	-55	-28	-40	-1.0
NEPAL	NR	132KV-TANAKPUR(NH) - MAHENDRANAGAR(PG)	-43	0	-20	-0.5
	ER	132KV-BIHAR - NEPAL	37	2	2	0.0
	ER	220KV-MUZAFFARPUR - DHALKEBAR DC	-196	-20	-83	-2.0

BANGLADESH	ER	BHERAMARA HVDC(BANGLADESH)	-986	-926	-927	-22.2
	NER	132KV-SURAJMANI NAGAR - COMILLA(BANGLADESH)-1	86	0	-74	-1.8
	NER	132KV-SURAJMANI NAGAR - COMILLA(BANGLADESH)-2	86	0	-74	-1.8