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: 06th 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 05.08.2020.

महोदय/Dear Sir,

आई०ई०जी०सी०-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 05-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 05th 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: 06-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)	59484	40134	35782	18322	2865	156587
Peak Shortage (MW)	83	0	0	0	8	91
Energy Met (MU)	1389	1002	793	382	55	3621
Hydro Gen (MU)	354	26	109	141	28	658
Wind Gen (MU)	8	65	200	-	-	273
Solar Gen (MU)*	36.50	17.40	46.70	4.27	0.04	105
Energy Shortage (MU)	2.6	0.0	0.0	0.0	0.0	2.6
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	63822	43862	37093	18236	3065	158564
Time Of Maximum Demand Met (From NLDC SCADA)	22:15	10:36	08:30	23:29	20:35	11:51

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	0.039	0.00	0.52	8.17	8.69	77.21	14.10

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	12334	0	272.0	139.6	-0.9	184	0.0
	Haryana	9503	965	208.2	183.0	2.1	369	2.4
	Rajasthan	12137	0	250.1	102.6	0.9	425	0.0
	Delhi	5596	0	115.7	99.1	0.0	262	0.1
	UP	21649	0	419.4	207.3	0.3	658	0.0
	Uttarakhand	1859	0	40.2	19.4	1.4	241	0.2
	HP	1456	0	31.5	-2.8	-0.6	57	0.0
	J&K(UT) & Ladakh(UT)	2224	0	45.6	19.6	0.3	236	0.0
	Chandigarh	332	0	6.3	6.2	0.1	58	0.0
WR	Chhattisgarh	3977	0	92.1	34.3	1.0	366	0.0
	Gujarat	14829	0	308.9	98.0	-1.4	707	0.0
	MP	8891	0	201.7	112.3	-1.5	475	0.0
	Maharashtra	16708	0	354.7	113.4	-4.3	705	0.0
	Goa	402	0	7.4	7.1	0.0	92	0.0
	DD	261	0	5.5	5.4	0.1	39	0.0
	DNH	572	0	12.6	12.4	0.2	38	0.0
	AMNSIL	861	0	19.1	6.7	0.4	293	0.0
SR	Andhra Pradesh	6646	0	146.0	31.5	-0.4	533	0.0
	Telangana	10404	0	207.6	110.6	-1.1	634	0.0
	Karnataka	6685	0	131.1	-1.0	-1.7	852	0.0
	Kerala	2855	0	50.0	32.5	-0.9	336	0.0
	Tamil Nadu	11820	0	250.6	89.2	-3.4	605	0.0
	Puducherry	343	0	7.3	7.7	-0.4	23	0.0
ER	Bihar	4106	0	81.6	78.5	-2.3	549	0.0
	DVC	2796	0	58.3	-37.4	0.1	235	0.0
	Jharkhand	1337	0	22.8	15.9	-1.0	173	0.0
	Odisha	4140	0	78.6	5.2	-0.5	298	0.0
	West Bengal	6882	0	140.0	46.1	-1.6	336	0.0
	Sikkim	69	0	0.8	1.3	-0.5	12	0.0
NER	Arunachal Pradesh	115	0	2.0	2.2	-0.2	7	0.0
	Assam	1897	12	36.4	32.2	-0.2	104	0.0
	Manipur	193	1	2.5	2.3	0.2	43	0.0
	Meghalaya	298	0	5.1	-0.1	-0.2	28	0.0
	Mizoram	90	0	1.5	1.2	0.1	14	0.0
	Nagaland	134	1	2.2	2.3	-0.3	13	0.0
	Tripura	283	3	5.2	5.2	0.0	70	0.0

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

	Bhutan	Nepal	Bangladesh
Actual (MU)	53.6	-3.7	-25.5
Day Peak (MW)	2341.0	-322.0	-1081.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	366.0	-273.2	42.5	-137.2	1.9	0.0
Actual(MU)	378.8	-272.7	24.6	-142.1	3.8	-7.5
O/D/U/D(MU)	12.8	0.5	-17.9	-4.9	1.9	-7.5

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL
Central Sector	4998	15887	12812	1745	1011	36452
State Sector	10434	20832	15890	5152	47	52355
Total	15432	36719	28702	6897	1058	88807

G. Sourcewise generation (MU)

	NR	WR	SR	ER	NER	All India
Coal	544	1056	298	419	6	2323
Lignite	22	13	20	0	0	55
Hydro	354	26	109	141	28	658
Nuclear	21	32	46	0	0	99
Gas, Naptha & Diesel	31	71	13	0	22	138
RES (Wind, Solar, Biomass & Others)	66	91	295	4	0	456
Total	1038	1289	781	565	56	3729

Share of RES in total generation (%)	6.34	7.06	37.79	0.76	0.07	12.24
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	42.44	11.57	57.67	25.79	49.02	32.54

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.047
Based on State Max Demands	1.102

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: 06-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	1601	0.0	31.9	-31.9
2	HVDC	PUSAULI B/B	-	0	399	0.0	9.3	-9.3
3	765 kV	GAYA-VARANASI	2	0	1079	0.0	17.5	-17.5
4	765 kV	SASARAM-FATEHPUR	1	97	130	0.0	1.4	-1.4
5	765 kV	GAYA-BALIA	1	0	617	0.0	5.3	-5.3
6	400 kV	PUSAULI-VARANASI	1	0	294	0.0	5.9	-5.9
7	400 kV	PUSAULI -ALLAHABAD	1	0	181	0.0	3.4	-3.4
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	0	757	0.0	13.9	-13.9
9	400 kV	PATNA-BALIA	4	0	1228	0.0	22.7	-22.7
10	400 kV	BIHARSHARIFF-BALIA	2	0	488	0.0	8.4	-8.4
11	400 kV	MOTIHARI-GORAKHPUR	2	0	356	0.0	6.4	-6.4
12	400 kV	BIHARSHARIFF-VARANASI	2	0	250	0.0	3.4	-3.4
13	220 kV	PUSAULI-SAHUPURI	1	0	107	0.0	1.9	-1.9
14	132 kV	SONE NAGAR-RIHAND	1	0	0	0.0	0.0	0.0
15	132 kV	GARWAH-RIHAND	1	30	0	0.3	0.0	0.3
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	0.3	131.4	-131.2
Import/Export of ER (With WR)								
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	905	317	6.3	0.0	6.3
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	1272	0	16.2	0.0	16.2
3	765 kV	JHARSUGUDA-DURG	2	195	82	0.7	0.0	0.7
4	400 kV	JHARSUGUDA-RAIGARH	4	182	155	0.5	0.0	0.5
5	400 kV	RANCHI-SIPAT	2	417	0	5.7	0.0	5.7
6	220 kV	BUDHIPADAR-RAIGARH	1	6	91	0.0	1.2	-1.2
7	220 kV	BUDHIPADAR-KORBA	2	147	0	2.3	0.0	2.3
					ER-WR	31.7	1.2	30.5
Import/Export of ER (With SR)								
1	HVDC	JEYPORE-GAZUWAKA B/B	2	0	544	0.0	12.4	-12.4
2	HVDC	TALCHER-KOLAR BIPOLE	2	0	1728	0.0	32.6	-32.6
3	765 kV	ANGUL-SRIKAKULAM	2	0	1908	0.0	26.7	-26.7
4	400 kV	TALCHER-I/C	2	1064	652	7.4	0.0	7.4
5	220 kV	BALIMELA-UPPER-SILERRU	1	1	0	0.0	0.0	0.0
					ER-SR	0.0	71.7	-71.7
Import/Export of ER (With NER)								
1	400 kV	BINAGURI-BONGAIGAON	2	0	495	0.0	8.5	-8.5
2	400 kV	ALIPURDUAR-BONGAIGAON	2	0	591	0.0	6.0	-6.0
3	220 kV	ALIPURDUAR-SALAKATI	2	0	146	0.0	2.2	-2.2
					ER-NER	0.0	16.7	-16.7
Import/Export of NER (With NR)								
1	HVDC	BISWANATH CHARIALI-AGRA	2	0	705	0.0	13.5	-13.5
					NER-NR	0.0	13.5	-13.5
Import/Export of WR (With NR)								
1	HVDC	CHAMPA-KURUKSHETRA	2	0	1754	0.0	54.4	-54.4
2	HVDC	VINDHYACHAL B/B	-	93	398	1.4	2.4	-1.0
3	HVDC	MUNDRA-MOHINDERGARH	2	0	2367	0.0	41.2	-41.2
4	765 kV	GWALIOR-AGRA	2	0	3142	0.0	54.0	-54.0
5	765 kV	PHAGI-GWALIOR	2	0	1530	0.0	30.3	-30.3
6	765 kV	JABALPUR-ORAI	2	0	1243	0.0	44.8	-44.8
7	765 kV	GWALIOR-ORAI	1	484	0	9.8	0.0	9.8
8	765 kV	SATNA-ORAI	1	0	1590	0.0	31.0	-31.0
9	765 kV	CHITORGARH-BANASKANTHA	2	183	1053	0.0	5.7	-5.7
10	400 kV	ZERDA-KANKROLI	1	88	190	0.0	0.1	-0.1
11	400 kV	ZERDA -BHINMAL	1	134	300	0.0	1.8	-1.8
12	400 kV	VINDHYACHAL -RIHAND	1	963	0	22.4	0.0	22.4
13	400 kV	RAPP-SHUJALPUR	2	0	664	0.0	10.8	-10.8
14	220 kV	BHANPURA-RANPUR	1	11	0	0.0	2.6	-2.6
15	220 kV	BHANPURA-MORAK	1	0	144	0.0	1.8	-1.8
16	220 kV	MEHGAON-AURAIYA	1	76	27	0.2	0.4	-0.2
17	220 kV	MALANPUR-AURAIYA	1	40	59	0.6	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	34.3	281.2	-246.9
Import/Export of WR (With SR)								
1	HVDC	BHADRAWATI B/B	-	0	312	0.0	7.3	-7.3
2	HVDC	RAIGARH-PUGALUR	2	0	0	0.0	0.0	0.0
3	765 kV	SOLAPUR-RAICHUR	2	1775	809	16.9	1.0	15.9
4	765 kV	WARDHA-NIZAMABAD	2	198	1852	0.0	24.0	-24.0
5	400 kV	KOLHAPUR-KUDGI	2	1314	0	20.9	0.0	20.9
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	0	0.0	0.0	0.0
					WR-SR	37.8	32.4	5.4

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)	779	763	770	18.5
	ER	400kV TALA-BINAGURI 1,2,4 (& 400kV MALBASE - BINAGURI) i.e. BINAGURI RECEIPT (from TALA HEP (6*170MW)	1072	1045	1047	25.1
	ER	220kV CHUKHA-BIRPARA 1&2 (& 220kV MALBASE - BIRPARA) i.e. BIRPARA RECEIPT (from CHUKHA HEP 4*84MW)	372	0	319	7.7
	NER	132KV-GEYLEGPHU - SALAKATI	52	35	-46	-1.1
	NER	132kV Motanga-Rangia	66	30	-51	-1.2
NEPAL	NR	132KV-TANAKPUR(NH) - MAHENDRANAGAR(PG)	-59	0	-37	-0.9
	ER	132KV-BIHAR - NEPAL	-53	33	-62	-1.5
	ER	220KV-MUZAFFARPUR - DHALKEBAR DC	-210	-10	-57	-1.4

BANGLADESH	ER	BHERAMARA HVDC(BANGLADESH)	-954	-944	-948	-22.8
	NER	132KV-SURAJMANI NAGAR - COMILLA(BANGLADESH)-1	64	0	-56	-1.4
	NER	132KV-SURAJMANI NAGAR - COMILLA(BANGLADESH)-2	63	0	-56	-1.3