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: 08th 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 07.08.2020.

महोदय/Dear Sir,

आई०ई०जी०सी०-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 07-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 07th 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: 08-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)	60337	42414	38628	21229	2812	165420
Peak Shortage (MW)	902	0	0	0	180	1082
Energy Met (MU)	1381	980	912	443	55	3771
Hydro Gen (MU)	362	30	127	135	26	679
Wind Gen (MU)	14	105	211	-	-	330
Solar Gen (MU)*	24.74	18.89	63.12	4.77	0.04	112
Energy Shortage (MU)	6.1	0.0	0.0	0.0	3.5	9.6
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	64732	43415	43146	21905	2868	166016
Time Of Maximum Demand Met (From NLDC SCADA)	22:17	09:15	09:53	19:36	18:44	19:37

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	0.054	0.00	1.87	13.85	15.73	78.39	5.88

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	12535	0	285.9	146.4	-1.3	87	0.0
	Haryana	9582	75	208.3	182.5	1.8	273	2.8
	Rajasthan	10208	0	226.3	91.7	0.0	358	0.0
	Delhi	5582	0	113.3	99.0	-2.3	217	0.0
	UP	22240	780	420.6	199.4	1.0	556	3.3
	Uttarakhand	1906	0	42.7	21.6	0.8	153	0.0
	HP	1412	0	32.1	-2.5	-0.5	85	0.0
	J&K(UT) & Ladakh(UT)	2204	0	45.6	19.5	0.3	171	0.0
	Chandigarh	347	0	6.7	6.3	0.4	54	0.0
WR	Chhattisgarh	4040	0	95.4	33.4	0.1	222	0.0
	Gujarat	12732	0	276.2	73.5	-2.1	1082	0.0
	MP	9073	0	203.1	121.1	-3.1	509	0.0
	Maharashtra	16540	0	359.1	113.5	-3.3	516	0.0
	Goa	428	0	9.2	8.9	0.0	66	0.0
	DD	258	0	5.6	5.4	0.2	29	0.0
	DNH	611	0	14.1	14.1	0.0	62	0.0
	AMNSIL	813	0	17.3	5.5	0.4	248	0.0
SR	Andhra Pradesh	7978	0	167.7	41.8	0.7	528	0.0
	Telangana	12602	0	247.6	120.7	1.1	905	0.0
	Karnataka	8317	0	149.4	20.2	-2.3	799	0.0
	Kerala	2754	0	55.2	35.9	-0.3	139	0.0
	Tamil Nadu	12819	0	283.6	90.8	-4.0	709	0.0
	Puducherry	394	0	8.4	8.3	0.1	82	0.0
ER	Bihar	5217	0	107.8	96.4	2.3	417	0.0
	DVC	2913	0	63.9	-43.1	-0.4	185	0.0
	Jharkhand	1468	0	26.6	19.1	-1.3	81	0.0
	Odisha	4215	0	83.4	7.9	-1.6	340	0.0
	West Bengal	8201	0	160.6	53.1	2.1	694	0.0
	Sikkim	78	0	0.9	1.0	-0.1	18	0.0
NER	Arunachal Pradesh	110	2	1.9	1.7	0.3	36	0.0
	Assam	1828	18	36.1	32.2	0.2	199	3.5
	Manipur	182	1	2.6	2.4	0.2	32	0.0
	Meghalaya	296	0	5.2	-0.3	-0.1	42	0.0
	Mizoram	89	1	1.5	1.2	0.1	18	0.0
	Nagaland	130	0	2.3	2.3	-0.2	24	0.0
	Tripura	298	4	5.2	4.7	0.4	107	0.0

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

	Bhutan	Nepal	Bangladesh
Actual (MU)	52.9	-3.9	-25.0
Day Peak (MW)	2274.0	-331.6	-1092.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	354.9	-316.6	64.5	-108.7	5.8	0.0
Actual(MU)	365.2	-339.2	52.1	-97.3	8.0	-11.3
O/D/U/D(MU)	10.2	-22.7	-12.5	11.4	2.2	-11.3

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL
Central Sector	5918	15032	12562	3265	909	37686
State Sector	9859	23481	14418	4032	47	51837
Total	15777	38513	26980	7297	956	89523

G. Sourcewise generation (MU)

	NR	WR	SR	ER	NER	All India
Coal	548	1064	332	434	7	2385
Lignite	20	8	23	0	0	51
Hydro	362	30	127	135	26	679
Nuclear	21	33	47	0	0	102
Gas, Naptha & Diesel	36	58	13	0	18	126
RES (Wind, Solar, Biomass & Others)	60	140	331	5	0	535
Total	1048	1333	874	573	52	3879

Share of RES in total generation (%)	5.69	10.49	37.88	0.84	0.08	13.79
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	42.26	15.17	57.79	24.37	51.14	33.93

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.061
Based on State Max Demands	1.087

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: 08-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	33.1	-33.1
2	HVDC	PUSAULI B/B	-	0	400	0.0	9.7	-9.7
3	765 kV	GAYA-VARANASI	2	0	729	0.0	11.1	-11.1
4	765 kV	SASARAM-FATEHPUR	1	242	0	3.7	0.0	3.7
5	765 kV	GAYA-BALIA	1	0	471	0.0	5.0	-5.0
6	400 kV	PUSAULI-VARANASI	1	0	300	0.0	6.8	-6.8
7	400 kV	PUSAULI -ALLAHABAD	1	0	152	0.0	2.9	-2.9
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	0	437	0.0	8.0	-8.0
9	400 kV	PATNA-BALIA	4	0	836	0.0	14.8	-14.8
10	400 kV	BIHARSHARIFF-BALIA	2	0	254	0.0	4.2	-4.2
11	400 kV	MOTIHARI-GORAKHPUR	2	0	329	0.0	5.8	-5.8
12	400 kV	BIHARSHARIFF-VARANASI	2	148	19	1.6	0.0	1.6
13	220 kV	PUSAULI-SAHUPURI	1	0	123	0.0	2.4	-2.4
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	0	0.0	0.0	0.0
					ER-NR	5.8	103.6	-97.8
Import/Export of ER (With WR)								
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	674	298	2.3	0.0	2.3
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	1334	0	21.7	0.0	21.7
3	765 kV	JHARSUGUDA-DURG	2	151	92	0.1	0.0	0.1
4	400 kV	JHARSUGUDA-RAIGARH	4	870	0	15.9	0.0	15.9
5	400 kV	RANCHI-SIPAT	2	451	0	7.6	0.0	7.6
6	220 kV	BUDHIPADAR-RAIGARH	1	36	66	0.0	0.5	-0.5
7	220 kV	BUDHIPADAR-KORBA	2	173	0	3.1	0.0	3.1
					ER-WR	50.6	0.5	50.2
Import/Export of ER (With SR)								
1	HVDC	JEYPORE-GAZUWAKA B/B	2	0	541	0.0	12.5	-12.5
2	HVDC	TALCHER-KOLAR BIPOLE	2	0	1703	0.0	31.1	-31.1
3	765 kV	ANGUL-SRIKAKULAM	2	0	1984	0.0	30.9	-30.9
4	400 kV	TALCHER-I/C	2	989	177	4.3	0.0	4.3
5	220 kV	BALIMELA-UPPER-SILERRU	1	1	0	0.0	0.0	0.0
					ER-SR	0.0	74.4	-74.4
Import/Export of ER (With NER)								
1	400 kV	BINAGURI-BONGAIGAON	2	0	550	0.0	8.2	-8.2
2	400 kV	ALIPURDUAR-BONGAIGAON	2	0	607	0.0	8.0	-8.0
3	220 kV	ALIPURDUAR-SALAKATI	2	0	148	0.0	2.1	-2.1
					ER-NER	0.0	18.4	-18.4
Import/Export of NER (With NR)								
1	HVDC	BISWANATH CHARIALI-AGRA	2	0	549	0.0	12.1	-12.1
					NER-NR	0.0	12.1	-12.1
Import/Export of WR (With NR)								
1	HVDC	CHAMPA-KURUKSHETRA	2	0	1758	0.0	66.6	-66.6
2	HVDC	VINDHYACHAL B/B	-	445	253	0.0	0.6	-0.6
3	HVDC	MUNDRA-MOHINDERGARH	2	0	1916	0.0	43.9	-43.9
4	765 kV	GWALIOR-AGRA	2	0	2842	0.0	54.4	-54.4
5	765 kV	PHAGI-GWALIOR	2	0	1363	0.0	27.4	-27.4
6	765 kV	JABALPUR-ORAI	2	0	1096	0.0	43.3	-43.3
7	765 kV	GWALIOR-ORAI	1	466	0	7.8	0.0	7.8
8	765 kV	SATNA-ORAI	1	0	1564	0.0	34.1	-34.1
9	765 kV	CHITORGARH-BANASKANTHA	2	0	1138	0.0	14.7	-14.7
10	400 kV	ZERDA-KANKROLI	1	55	197	0.0	1.8	-1.8
11	400 kV	ZERDA -BHINMAL	1	56	285	0.0	3.1	-3.1
12	400 kV	VINDHYACHAL -RIHAND	1	973	0	22.4	0.0	22.4
13	400 kV	RAPP-SHUJALPUR	2	0	549	0.0	8.9	-8.9
14	220 kV	BHANPURA-RANPUR	1	11	0	0.0	1.9	-1.9
15	220 kV	BHANPURA-MORAK	1	0	117	0.0	1.9	-1.9
16	220 kV	MEHGAON-AURAIYA	1	50	21	0.0	0.6	-0.5
17	220 kV	MALANPUR-AURAIYA	1	23	48	0.2	0.1	0.1
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	30.5	303.4	-272.8
Import/Export of WR (With SR)								
1	HVDC	BHADRAWATI B/B	-	0	999	0.0	7.4	-7.4
2	HVDC	RAIGARH-PUGALUR	2	0	0	0.0	0.0	0.0
3	765 kV	SOLAPUR-RAICHUR	2	1569	1049	9.8	3.4	6.4
4	765 kV	WARDHA-NIZAMABAD	2	0	2361	0.0	32.0	-32.0
5	400 kV	KOLHAPUR-KUDGI	2	1308	0	18.1	0.0	18.1
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	89	0.4	0.0	0.4
					WR-SR	28.2	42.7	-14.5

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	756	765	18.9
	ER	400kV TALA-BINAGURI 1,2,4 (& 400kV MALBASE - BINAGURI) i.e. BINAGURI RECEIPT (from TALA HEP (6*170MW)	1131	0	1012	24.3
	ER	220kV CHUKHA-BIRPARA 1&2 (& 220kV MALBASE - BIRPARA) i.e. BIRPARA RECEIPT (from CHUKHA HEP 4*84MW)	378	0	320	7.7
	NER	132KV-GEYLEGPHU - SALAKATI	0	0	0	-0.8
	NER	132kV Motanga-Rangia	0	0	0	-1.2
NEPAL	NR	132KV-TANAKPUR(NH) - MAHENDRANAGAR(PG)	-61	0	-45	-1.1
	ER	132KV-BIHAR - NEPAL	-75	-40	-43	-1.0
	ER	220KV-MUZAFFARPUR - DHALKEBAR DC	-196	-4	-73	-1.8
BANGLADESH	ER	BHERAMARA HVDC(BANGLADESH)	-944	-925	-931	-22.3
	NER	132KV-SURAJMANI NAGAR - COMILLA(BANGLADESH)-1	75	0	-56	-1.3
	NER	132KV-SURAJMANI NAGAR - COMILLA(BANGLADESH)-2	73	0	-56	-1.3