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: 22nd 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 21.08.2020.

महोदय/Dear Sir,

आई०ई०जी०सी०-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 21-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 21st 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:** **22-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)	51542	37450	37723	19603	2799	149117
Peak Shortage (MW)	0	0	0	102	5	107
Energy Met (MU)	1094	911	865	399	53	3322
Hydro Gen (MU)	325	35	127	142	24	653
Wind Gen (MU)	6	69	135	-	-	210
Solar Gen (MU)*	29.89	17.36	78.80	4.38	0.05	130
Energy Shortage (MU)	0.0	0.0	0.0	0.3	0.0	0.3
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	52738	39852	39995	19616	2886	150362
Time Of Maximum Demand Met (From NLDC SCADA)	21:19	09:52	12:57	19:57	18:55	19:30

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	0.037	0.00	0.82	7.12	7.94	82.66	9.40

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	8101	0	183.5	130.6	-1.2	162	0.0
	Haryana	7338	0	149.7	143.0	1.4	252	0.0
	Rajasthan	9756	0	208.6	87.8	-1.6	277	0.0
	Delhi	4365	0	90.0	79.2	-2.1	82	0.0
	UP	19223	0	351.9	166.4	-2.2	459	0.0
	Uttarakhand	1780	0	38.0	17.7	-0.3	153	0.0
	HP	1324	0	29.3	-5.4	-1.0	170	0.0
	J&K(UT) & Ladakh(UT)	2077	0	38.8	19.7	0.7	303	0.0
	Chandigarh	215	0	4.6	4.9	-0.3	5	0.0
WR	Chhattisgarh	3204	0	75.9	18.9	-1.3	167	0.0
	Gujarat	12056	0	266.0	104.1	2.9	851	0.0
	MP	7745	0	173.6	115.9	-2.5	963	0.0
	Maharashtra	16630	0	348.2	126.8	-4.3	428	0.0
	Goa	383	0	8.4	8.1	-0.3	29	0.0
	DD	284	0	6.2	6.0	0.2	35	0.0
	DNH	691	0	15.8	15.8	0.0	60	0.0
	AMNSIL	770	0	16.9	1.5	0.2	286	0.0
SR	Andhra Pradesh	7770	0	162.8	42.6	0.6	1040	0.0
	Telangana	7159	0	148.0	79.3	0.1	720	0.0
	Karnataka	8661	0	160.2	49.2	-1.3	629	0.0
	Kerala	3242	0	67.1	45.4	-0.2	169	0.0
	Tamil Nadu	14491	0	319.2	138.5	-0.9	831	0.0
	Puducherry	387	0	8.2	8.3	-0.1	48	0.0
ER	Bihar	5041	0	93.8	89.3	-1.1	476	0.0
	DVC	2751	0	61.4	-31.6	0.1	220	0.0
	Jharkhand	1323	0	24.3	17.5	-1.3	240	0.3
	Odisha	4143	0	82.0	12.4	0.7	330	0.0
	West Bengal	6745	0	136.5	50.1	1.8	434	0.0
	Sikkim	74	0	0.9	1.1	-0.2	10	0.0
NER	Arunachal Pradesh	106	1	1.8	1.7	0.1	25	0.0
	Assam	1850	14	34.2	29.9	0.5	134	0.0
	Manipur	191	1	2.6	2.4	0.2	32	0.0
	Meghalaya	313	0	5.5	0.0	0.0	64	0.0
	Mizoram	94	1	1.6	1.1	0.2	33	0.0
	Nagaland	133	2	2.3	2.4	-0.2	13	0.0
	Tripura	287	6	4.7	5.7	-0.3	37	0.0

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

	Bhutan	Nepal	Bangladesh
Actual (MU)	53.2	-2.7	-25.4
Day Peak (MW)	2271.0	-292.4	-1081.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	267.7	-260.9	89.7	-96.7	0.2	0.0
Actual(MU)	249.8	-253.0	100.3	-100.7	1.4	-2.3
O/D/U/D(MU)	-17.9	7.9	10.6	-4.0	1.2	-2.3

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL
Central Sector	5839	16658	10162	2865	610	36134
State Sector	14879	25254	15204	5482	47	60866
Total	20718	41912	25366	8347	656	96999

G. Sourcewise generation (MU)

	NR	WR	SR	ER	NER	All India
Coal	402	960	325	397	7	2090
Lignite	25	12	23	0	0	60
Hydro	325	35	127	142	24	653
Nuclear	21	32	47	0	0	101
Gas, Naptha & Diesel	37	60	15	0	25	137
RES (Wind, Solar, Biomass & Others)	55	87	241	4	0	388
Total	865	1185	778	543	57	3428
Share of RES in total generation (%)	6.35	7.35	31.02	0.82	0.09	11.32
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	46.39	12.98	53.38	26.92	42.93	33.29

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.031
Based on State Max Demands	1.069

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: 22-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	1001	0.0	24.5	-24.5
2	HVDC	PUSAULI B/B	-	0	198	0.0	4.8	-4.8
3	765 kV	GAYA-VARANASI	2	0	536	0.0	7.0	-7.0
4	765 kV	SASARAM-FATEHPUR	1	134	128	1.4	0.0	1.4
5	765 kV	GAYA-BALIA	1	0	446	0.0	7.0	-7.0
6	400 kV	PUSAULI-VARANASI	1	0	197	0.0	4.1	-4.1
7	400 kV	PUSAULI -ALLAHABAD	1	0	55	0.0	0.5	-0.5
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	0	619	0.0	11.1	-11.1
9	400 kV	PATNA-BALIA	4	0	810	0.0	12.8	-12.8
10	400 kV	BIHARSHARIFF-BALIA	2	0	274	0.0	4.5	-4.5
11	400 kV	MOTIHARI-GORAKHPUR	2	0	329	0.0	4.8	-4.8
12	400 kV	BIHARSHARIFF-VARANASI	2	61	100	0.0	0.3	-0.3
13	220 kV	PUSAULI-SAHUPURI	1	0	113	0.0	1.6	-1.6
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	1.7	83.0	-81.3
Import/Export of ER (With WR)								
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	802	32239	12.3	0.0	12.3
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	1267	0	19.7	0.0	19.7
3	765 kV	JHARSUGUDA-DURG	2	59	187	0.0	0.6	-0.6
4	400 kV	JHARSUGUDA-RAIGARH	4	250	120	1.9	0.0	1.9
5	400 kV	RANCHI-SIPAT	2	397	14	6.1	0.0	6.1
6	220 kV	BUDHIPADAR-RAIGARH	1	25	81	0.0	0.5	-0.5
7	220 kV	BUDHIPADAR-KORBA	2	175	0	2.9	0.0	2.9
					ER-WR	43.0	1.2	41.8
Import/Export of ER (With SR)								
1	HVDC	JEYPORE-GAZUWAKA B/B	2	0	335	0.0	7.6	-7.6
2	HVDC	TALCHER-KOLAR BIPOLE	2	0	1891	0.0	35.0	-35.0
3	765 kV	ANGUL-SRIKAKULAM	2	0	2833	0.0	46.9	-46.9
4	400 kV	TALCHER-I/C	2	642	656	4.6	0.0	4.6
5	220 kV	BALIMELA-UPPER-SILERRU	1	1	0	0.0	0.0	0.0
					ER-SR	0.0	89.5	-89.5
Import/Export of ER (With NER)								
1	400 kV	BINAGURI-BONGAIGAON	2	0	419	0.0	5.3	-5.3
2	400 kV	ALIPURDUAR-BONGAIGAON	2	28	483	0.0	6.1	-6.1
3	220 kV	ALIPURDUAR-SALAKATI	2	0	127	0.0	2.1	-2.1
					ER-NER	0.0	13.5	-13.5
Import/Export of NER (With NR)								
1	HVDC	BISWANATH CHARIALI-AGRA	2	0	603	0.0	14.5	-14.5
					NER-NR	0.0	14.5	-14.5
Import/Export of WR (With NR)								
1	HVDC	CHAMPA-KURUKSHETRA	2	0	1001	0.0	25.7	-25.7
2	HVDC	VINDHYACHAL B/B	-	401	0	4.4	0.0	4.4
3	HVDC	MUNDRA-MOHINDERGARH	2	0	1172	0.0	21.0	-21.0
4	765 kV	GWALIOR-AGRA	2	0	2522	0.0	40.7	-40.7
5	765 kV	PHAGI-GWALIOR	2	0	1631	0.0	27.2	-27.2
6	765 kV	JABALPUR-ORAI	2	0	1047	0.0	34.1	-34.1
7	765 kV	GWALIOR-ORAI	1	488	0	9.6	0.0	9.6
8	765 kV	SATNA-ORAI	1	0	1473	0.0	29.0	-29.0
9	765 kV	CHITORGARH-BANASKANTHA	2	385	978	0.0	7.6	-7.6
10	400 kV	ZERDA-KANKROLI	1	126	199	0.0	0.9	-0.9
11	400 kV	ZERDA -BHINMAL	1	88	336	0.0	2.4	-2.4
12	400 kV	VINDHYACHAL -RIHAND	1	958	0	22.5	0.0	22.5
13	400 kV	RAPP-SHUJALPUR	2	0	598	0.0	7.0	-7.0
14	220 kV	BHANPURA-RANPUR	1	11	0	0.0	1.5	-1.5
15	220 kV	BHANPURA-MORAK	1	0	134	0.0	1.7	-1.7
16	220 kV	MEHGAON-AURAIYA	1	112	6	0.2	0.3	-0.1
17	220 kV	MALANPUR-AURAIYA	1	76	35	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	37.4	199.1	-161.7
Import/Export of WR (With SR)								
1	HVDC	BHADRAWATI B/B	-	0	508	0.0	9.8	-9.8
2	HVDC	RAIGARH-PUGALUR	2	0	0	0.0	0.0	0.0
3	765 kV	SOLAPUR-RAICHUR	2	502	2281	0.0	18.1	-18.1
4	765 kV	WARDHA-NIZAMABAD	2	0	2705	0.0	33.7	-33.7
5	400 kV	KOLHAPUR-KUDGI	2	897	0	9.9	0.0	9.9
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	0	98	1.6	0.0	1.6
					WR-SR	11.5	61.5	-50.0

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)	772	0	704	16.9
	ER	400kV TALA-BINAGURI 1,2,4 (& 400kV MALBASE - BINAGURI) i.e. BINAGURI RECEIPT (from TALA HEP (6*170MW)	1027	1018	1027	25.8
	ER	220kV CHUKHA-BIRPARA 1&2 (& 220kV MALBASE - BIRPARA) i.e. BIRPARA RECEIPT (from CHUKHA HEP 4*84MW)	357	0	327	7.8
	NER	132KV-GEYLEGPHU - SALAKATI	56	49	56	-1.4
	NER	132kV Motanga-Rangia	59	51	-52	-1.2
NEPAL	NR	132KV-TANAKPUR(NH) - MAHENDRANAGAR(PG)	-52	0	-26	-0.6
	ER	132KV-BIHAR - NEPAL	-46	0	0	0.0
	ER	220KV-MUZAFFARPUR - DHALKEBAR DC	-194	-16	-86	-2.1
BANGLADESH	ER	BHERAMARA HVDC(BANGLADESH)	-948	-944	-945	-22.7
	NER	132KV-SURAJMANI NAGAR - COMILLA(BANGLADESH)-1	67	0	-58	-1.4
	NER	132KV-SURAJMANI NAGAR - COMILLA(BANGLADESH)-2	66	0	-58	-1.4