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: 02nd 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 01.08.2020.

महोदय/Dear Sir,

आई०ई०जी०सी०-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 01-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 01st 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: 02-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)	55500	44562	35427	22815	2709	161013
Peak Shortage (MW)	731	0	0	0	7	738
Energy Met (MU)	1288	1068	844	459	50	3710
Hydro Gen (MU)	351	21	86	142	31	631
Wind Gen (MU)	11	20	129	-	-	160
Solar Gen (MU)*	36.94	22.09	68.00	4.41	0.04	131
Energy Shortage (MU)	9.6	0.0	0.0	0.0	0.0	9.7
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	59929	46697	40559	22964	2787	163277
Time Of Maximum Demand Met (From NLDC SCADA)	22:15	14:37	09:46	20:52	19:19	20:52

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	0.024	0.00	0.32	3.82	4.14	87.36	8.49

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	10642	0	239.6	133.1	-0.5	225	0.0
	Haryana	8524	0	187.1	168.8	-0.8	175	0.0
	Rajasthan	11354	0	242.9	97.2	-1.5	367	0.0
	Delhi	5049	0	98.5	86.5	-2.5	103	0.0
	UP	20820	0	406.7	200.7	-2.7	447	0.0
	Uttarakhand	1817	0	37.6	17.9	0.2	232	0.0
	HP	1301	0	30.0	-4.4	-1.9	32	0.0
	J&K(UT) & Ladakh(UT)	1963	491	40.5	18.4	-0.9	221	9.6
	Chandigarh	234	0	5.0	5.6	-0.5	23	0.0
WR	Chhattisgarh	4477	0	105.9	43.1	-0.6	264	0.0
	Gujarat	14062	0	311.9	106.6	2.2	823	0.0
	MP	9926	0	226.5	126.6	-1.4	249	0.0
	Maharashtra	16692	0	378.9	144.3	-1.9	510	0.0
	Goa	479	0	8.7	8.3	0.0	106	0.0
	DD	239	0	5.3	5.3	0.1	21	0.0
	DNH	617	0	14.1	14.3	-0.2	33	0.0
	AMNSIL	781	0	17.2	6.3	-0.3	264	0.0
SR	Andhra Pradesh	7320	0	161.1	60.8	-0.2	434	0.0
	Telangana	10351	0	200.6	82.8	-1.1	326	0.0
	Karnataka	8115	0	156.6	66.1	-0.4	575	0.0
	Kerala	2871	0	59.4	43.3	0.6	153	0.0
	Tamil Nadu	11961	0	258.2	73.6	-0.9	831	0.0
	Puducherry	355	0	7.6	8.1	-0.5	29	0.0
ER	Bihar	5869	0	109.6	103.7	-2.0	572	0.0
	DVC	3053	0	62.3	-30.4	-0.6	267	0.0
	Jharkhand	1480	0	27.5	21.1	-2.1	170	0.0
	Odisha	4355	0	90.4	2.9	-0.3	311	0.0
	West Bengal	8682	0	168.6	53.8	-0.1	376	0.0
	Sikkim	87	0	0.9	1.1	-0.1	24	0.0
NER	Arunachal Pradesh	97	1	1.4	1.5	0.0	56	0.0
	Assam	1817	25	32.6	29.1	-0.5	106	0.0
	Manipur	172	2	2.6	2.6	0.0	16	0.0
	Meghalaya	287	0	5.0	0.0	-0.3	30	0.0
	Mizoram	95	1	1.6	1.3	0.0	12	0.0
	Nagaland	126	2	2.2	2.3	-0.2	7	0.0
	Tripura	264	2	4.9	5.7	-0.1	23	0.0

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

	Bhutan	Nepal	Bangladesh
Actual (MU)	49.0	-0.5	-23.6
Day Peak (MW)	2118.0	-70.5	-1092.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	315.6	-251.5	71.5	-129.9	-5.7	0.0
Actual(MU)	304.1	-241.6	72.9	-139.8	-6.4	-10.7
O/D/U/D(MU)	-11.4	10.0	1.4	-9.9	-0.7	-10.7

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL
Central Sector	5756	13437	12222	1045	760	33219
State Sector	10889	20330	13960	5672	47	50898
Total	16645	33767	26182	6717	806	84117

G. Sourcewise generation (MU)

	NR	WR	SR	ER	NER	All India
Coal	510	1143	394	492	7	2545
Lignite	17	13	17	0	0	47
Hydro	351	21	86	142	31	631
Nuclear	22	33	24	0	0	79
Gas, Naptha & Diesel	36	71	12	0	26	145
RES (Wind, Solar, Biomass & Others)	69	48	252	4	0	373
Total	1004	1330	785	638	63	3820
Share of RES in total generation (%)	6.84	3.61	32.09	0.70	0.06	9.77
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	43.97	7.68	46.15	22.94	48.67	28.35

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.059
Based on State Max Demands	1.080

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: 02-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	1801	0.0	44.4	-44.4
2	HVDC	PUSAULI B/B	-	0	399	0.0	9.7	-9.7
3	765 kV	GAYA-VARANASI	2	0	573	0.0	9.8	-9.8
4	765 kV	SASARAM-FATEHPUR	1	167	14	2.1	0.0	2.1
5	765 kV	GAYA-BALIA	1	0	475	0.0	4.3	-4.3
6	400 kV	PUSAULI-VARANASI	1	0	289	0.0	6.6	-6.6
7	400 kV	PUSAULI -ALLAHABAD	1	0	161	0.0	3.1	-3.1
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	0	470	0.0	7.9	-7.9
9	400 kV	PATNA-BALIA	4	0	962	0.0	17.0	-17.0
10	400 kV	BIHARSHARIFF-BALIA	2	0	287	0.0	4.6	-4.6
11	400 kV	MOTIHARI-GORAKHPUR	2	0	349	0.0	6.2	-6.2
12	400 kV	BIHARSHARIFF-VARANASI	2	115	89	0.1	0.0	0.1
13	220 kV	PUSAULI-SAHUPURI	1	0	120	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	0.6	0.0	0.6
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	2.8	116.0	-113.2
Import/Export of ER (With WR)								
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	566	64	5.1	0.0	5.1
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	1245	0	20.6	0.0	20.6
3	765 kV	JHARSUGUDA-DURG	2	134	182	0.0	1.0	-1.0
4	400 kV	JHARSUGUDA-RAIGARH	4	0	298	0.0	4.1	-4.1
5	400 kV	RANCHI-SIPAT	2	383	0	6.2	0.0	6.2
6	220 kV	BUDHIPADAR-RAIGARH	1	1	95	0.0	1.0	-1.0
7	220 kV	BUDHIPADAR-KORBA	2	142	0	2.0	0.0	2.0
					ER-WR	33.9	6.1	27.9
Import/Export of ER (With SR)								
1	HVDC	JEYPORE-GAZUWAKA B/B	2	0	541	0.0	12.4	-12.4
2	HVDC	TALCHER-KOLAR BIPOLE	2	0	1979	0.0	48.0	-48.0
3	765 kV	ANGUL-SRIKAKULAM	2	0	2293	0.0	33.9	-33.9
4	400 kV	TALCHER-I/C	2	0	512	0.0	7.3	-7.3
5	220 kV	BALIMELA-UPPER-SILERRU	1	1	0	0.0	0.0	0.0
					ER-SR	0.0	94.4	-94.4
Import/Export of ER (With NER)								
1	400 kV	BINAGURI-BONGAIGAON	2	0	536	0.0	6.5	-6.5
2	400 kV	ALIPURDUAR-BONGAIGAON	2	23	0	0.0	0.4	-0.4
3	220 kV	ALIPURDUAR-SALAKATI	2	0	54	0.0	1.7	-1.7
					ER-NER	0.0	8.5	-8.5
Import/Export of NER (With NR)								
1	HVDC	BISWANATH CHARIALI-AGRA	2	0	704	0.0	16.8	-16.8
					NER-NR	0.0	16.8	-16.8
Import/Export of WR (With NR)								
1	HVDC	CHAMPA-KURUKSHETRA	2	0	800	0.0	38.5	-38.5
2	HVDC	VINDHYACHAL B/B	-	48	156	0.7	1.7	-1.0
3	HVDC	MUNDRA-MOHINDERGARH	2	0	1454	0.0	24.4	-24.4
4	765 kV	GWALIOR-AGRA	2	0	2629	0.0	45.6	-45.6
5	765 kV	PHAGI-GWALIOR	2	0	1407	0.0	25.7	-25.7
6	765 kV	JABALPUR-ORAI	2	0	1088	0.0	38.9	-38.9
7	765 kV	GWALIOR-ORAI	1	438	0	8.9	0.0	8.9
8	765 kV	SATNA-ORAI	1	0	1515	0.0	29.6	-29.6
9	765 kV	CHITORGARH-BANASKANTHA	2	0	1047	0.0	7.1	-7.1
10	400 kV	ZERDA-KANKROLI	1	99	167	0.0	0.7	-0.7
11	400 kV	ZERDA -BHINMAL	1	188	260	0.0	2.3	-2.3
12	400 kV	VINDHYACHAL -RIHAND	1	964	0	22.1	0.0	22.1
13	400 kV	RAPP-SHUJALPUR	2	0	489	0.0	6.6	-6.6
14	220 kV	BHANPURA-RANPUR	1	11	0	0.0	1.5	-1.5
15	220 kV	BHANPURA-MORAK	1	0	115	0.0	1.8	-1.8
16	220 kV	MEHGAON-AURAIYA	1	115	0	0.8	0.0	0.8
17	220 kV	MALANPUR-AURAIYA	1	77	9	1.6	0.0	1.6
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	34.1	224.5	-190.4
Import/Export of WR (With SR)								
1	HVDC	BHADRAWATI B/B	-	0	816	0.0	19.6	-19.6
2	HVDC	RAIGARH-PUGALUR	2	0	0	0.0	0.0	0.0
3	765 kV	SOLAPUR-RAICHUR	2	1062	1263	5.3	4.7	0.6
4	765 kV	WARDHA-NIZAMABAD	2	30	1941	0.0	16.8	-16.8
5	400 kV	KOLHAPUR-KUDGI	2	923	0	15.1	0.0	15.1
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	77	1.1	0.0	1.1
					WR-SR	21.5	41.1	-19.5

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)	581	581	581	14.2
	ER	400kV TALA-BINAGURI 1,2,4 (& 400kV MALBASE - BINAGURI) i.e. BINAGURI RECEIPT (from TALA HEP (6*170MW)	1055	1034	1055	25.3
	ER	220kV CHUKHA-BIRPARA 1&2 (& 220kV MALBASE - BIRPARA) i.e. BIRPARA RECEIPT (from CHUKHA HEP 4*84MW)	354	0	315	7.6
	NER	132KV-GEYLEGPHU - SALAKATI	57	16	-23	-0.6
	NER	132kV Motanga-Rangia	72	51	-61	-1.5
NEPAL	NR	132KV-TANAKPUR(NH) - MAHENDRANAGAR(PG)	-54	0	-20	-0.5
	ER	132KV-BIHAR - NEPAL	78	1	20	0.5
	ER	220KV-MUZAFFARPUR - DHALKEBAR DC	-94	-2	-19	-0.5
BANGLADESH	ER	BHERAMARA HVDC(BANGLADESH)	-956	-746	-862	-20.7
	NER	132KV-SURAJMANI NAGAR - COMILLA(BANGLADESH)-1	68	0	-60	-1.4
	NER	132KV-SURAJMANI NAGAR - COMILLA(BANGLADESH)-2	68	0	-60	-1.4