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: 01st 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 31.07.2020.

महोदय/Dear Sir,

आई०ई०जी०सी०-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 31-जुलाई-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 31st July 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: 01-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)	58778	44942	36513	22670	2680	165583
Peak Shortage (MW)	545	0	0	0	9	554
Energy Met (MU)	1301	1083	891	460	50	3785
Hydro Gen (MU)	348	14	90	146	30	628
Wind Gen (MU)	17	20	113	-	-	150
Solar Gen (MU)*	29.17	21.68	72.19	4.46	0.03	128
Energy Shortage (MU)	10.5	0.0	0.0	0.0	0.0	10.5
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	62438	47519	43190	22709	2696	167512
Time Of Maximum Demand Met (From NLDC SCADA)	22:25	10:49	09:26	20:01	19:40	20:37

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	0.034	0.00	0.69	6.86	7.56	87.62	4.83

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	11279	0	244.8	138.4	-1.0	62	0.0
	Haryana	8801	0	182.8	154.1	1.9	269	0.0
	Rajasthan	11486	0	244.7	94.8	-1.8	293	0.0
	Delhi	5128	0	105.7	96.0	-0.1	253	0.0
	UP	21334	0	403.8	184.2	-1.4	745	0.0
	Uttarakhand	1765	0	38.7	18.7	1.1	190	0.0
	HP	1359	0	30.7	-3.8	-1.1	47	0.0
	J&K(UT) & Ladakh(UT)	2217	554	43.6	20.5	0.2	205	10.5
	Chandigarh	289	0	5.7	5.9	-0.2	15	0.0
WR	Chhattisgarh	4565	0	109.7	42.0	0.5	248	0.0
	Gujarat	14670	0	316.8	104.3	2.8	353	0.0
	MP	9961	0	226.8	126.0	-1.1	469	0.0
	Maharashtra	17499	0	383.9	149.1	-5.6	588	0.0
	Goa	413	0	8.4	8.4	-0.2	22	0.0
	DD	259	0	5.5	5.4	0.1	20	0.0
	DNH	645	0	14.4	14.5	-0.1	59	0.0
	AMNSIL	780	0	17.6	6.4	-0.2	227	0.0
SR	Andhra Pradesh	8074	0	170.5	70.9	0.6	751	0.0
	Telangana	11034	0	215.3	94.1	0.4	389	0.0
	Karnataka	8746	0	164.8	74.3	-0.5	599	0.0
	Kerala	2787	0	58.7	43.6	0.3	202	0.0
	Tamil Nadu	12957	0	274.3	85.9	-4.0	258	0.0
	Puducherry	352	0	7.7	7.6	0.1	61	0.0
ER	Bihar	5555	0	105.6	99.2	-0.1	383	0.0
	DVC	3008	0	63.1	-34.5	-0.7	297	0.0
	Jharkhand	1460	0	27.3	19.7	-1.1	143	0.0
	Odisha	4633	0	91.0	0.2	-0.6	380	0.0
	West Bengal	8568	0	172.3	55.9	-0.2	348	0.0
	Sikkim	85	0	1.0	1.1	-0.1	21	0.0
NER	Arunachal Pradesh	97	1	1.5	1.4	0.1	20	0.0
	Assam	1738	8	31.9	27.5	0.9	100	0.0
	Manipur	190	1	2.6	2.5	0.2	24	0.0
	Meghalaya	345	0	5.2	0.0	-0.1	16	0.0
	Mizoram	95	1	1.6	1.3	0.0	11	0.0
	Nagaland	125	0	2.2	2.3	-0.2	12	0.0
	Tripura	265	3	4.8	5.9	-0.2	22	0.0

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

	Bhutan	Nepal	Bangladesh
Actual (MU)	49.9	-1.7	-25.8
Day Peak (MW)	2104.0	-65.0	-1096.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	302.5	-260.6	96.8	-132.8	-5.9	0.0
Actual(MU)	306.4	-259.9	97.9	-147.3	-5.5	-8.4
O/D/U/D(MU)	3.9	0.7	1.1	-14.5	0.5	-8.4

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL
Central Sector	5096	14757	11622	1045	640	33159
State Sector	9384	20200	13190	5502	47	48323
Total	14480	34957	24812	6547	686	81482

G. Sourcewise generation (MU)

	NR	WR	SR	ER	NER	All India
Coal	537	1150	423	497	6	2613
Lignite	17	13	17	0	0	47
Hydro	348	14	90	146	30	628
Nuclear	21	33	24	0	0	79
Gas, Naptha & Diesel	32	101	12	0	24	168
RES (Wind, Solar, Biomass & Others)	67	50	240	5	0	361
Total	1022	1360	806	647	61	3897
Share of RES in total generation (%)	6.54	3.64	29.77	0.70	0.05	9.26
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	42.65	7.06	43.97	23.24	49.93	27.39

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.066
Based on State Max Demands	1.090

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: 01-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	1802	0.0	44.4	-44.4
2	HVDC	PUSAULI B/B	-	0	398	0.0	9.9	-9.9
3	765 kV	GAYA-VARANASI	2	0	569	0.0	8.8	-8.8
4	765 kV	SASARAM-FATEHPUR	1	147	128	0.0	1.1	-1.1
5	765 kV	GAYA-BALIA	1	0	451	0.0	7.7	-7.7
6	400 kV	PUSAULI-VARANASI	1	0	292	0.0	6.2	-6.2
7	400 kV	PUSAULI -ALLAHABAD	1	0	172	0.0	3.2	-3.2
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	0	475	0.0	7.8	-7.8
9	400 kV	PATNA-BALIA	4	0	826	0.0	14.9	-14.9
10	400 kV	BIHARSHARIFF-BALIA	2	0	272	0.0	4.3	-4.3
11	400 kV	MOTIHARI-GORAKHPUR	2	0	315	0.0	5.7	-5.7
12	400 kV	BIHARSHARIFF-VARANASI	2	86	122	0.0	0.2	-0.2
13	220 kV	PUSAULI-SAHUPURI	1	0	128	0.0	2.5	-2.5
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	0.5	116.6	-116.2
Import/Export of ER (With WR)								
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	685	74	7.9	0.0	7.9
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	1302	0	19.5	0.0	19.5
3	765 kV	JHARSUGUDA-DURG	2	202	266	0.0	1.4	-1.4
4	400 kV	JHARSUGUDA-RAIGARH	4	0	364	0.0	4.7	-4.7
5	400 kV	RANCHI-SIPAT	2	384	7	5.7	0.0	5.7
6	220 kV	BUDHIPADAR-RAIGARH	1	0	123	0.0	1.6	-1.6
7	220 kV	BUDHIPADAR-KORBA	2	123	0	1.7	0.0	1.7
					ER-WR	34.7	7.7	27.0
Import/Export of ER (With SR)								
1	HVDC	JEYPORE-GAZUWAKA B/B	2	0	537	0.0	12.4	-12.4
2	HVDC	TALCHER-KOLAR BIPOLE	2	0	1983	0.0	45.7	-45.7
3	765 kV	ANGUL-SRIKAKULAM	2	0	2739	0.0	41.5	-41.5
4	400 kV	TALCHER-I/C	2	264	670	0.0	3.0	-3.0
5	220 kV	BALIMELA-UPPER-SILERRU	1	1	0	0.0	0.0	0.0
					ER-SR	0.0	99.6	-99.6
Import/Export of ER (With NER)								
1	400 kV	BINAGURI-BONGAIGAON	2	0	536	0.0	6.2	-6.2
2	400 kV	ALIPURDUAR-BONGAIGAON	2	145	37	0.0	0.5	-0.5
3	220 kV	ALIPURDUAR-SALAKATI	2	0	80	0.0	1.7	-1.7
					ER-NER	0.0	8.4	-8.4
Import/Export of NER (With NR)								
1	HVDC	BISWANATH CHARIALI-AGRA	2	0	704	0.0	17.0	-17.0
					NER-NR	0.0	17.0	-17.0
Import/Export of WR (With NR)								
1	HVDC	CHAMPA-KURUKSHETRA	2	0	799	0.0	25.6	-25.6
2	HVDC	VINDHYACHAL B/B	-	49	253	0.3	3.1	-2.7
3	HVDC	MUNDRA-MOHINDERGARH	2	0	1452	0.0	25.4	-25.4
4	765 kV	GWALIOR-AGRA	2	0	2596	0.0	44.2	-44.2
5	765 kV	PHAGI-GWALIOR	2	0	1496	0.0	25.8	-25.8
6	765 kV	JABALPUR-ORAI	2	0	1096	0.0	39.4	-39.4
7	765 kV	GWALIOR-ORAI	1	456	0	8.8	0.0	8.8
8	765 kV	SATNA-ORAI	1	0	1433	0.0	29.3	-29.3
9	765 kV	CHITORGARH-BANASKANTHA	2	112	1198	0.0	9.0	-9.0
10	400 kV	ZERDA-KANKROLI	1	95	173	0.0	0.9	-0.9
11	400 kV	ZERDA -BHINMAL	1	94	231	0.0	2.1	-2.1
12	400 kV	VINDHYACHAL -RIHAND	1	974	0	22.6	0.0	22.6
13	400 kV	RAPP-SHUJALPUR	2	0	526	0.0	7.0	-7.0
14	220 kV	BHANPURA-RANPUR	1	11	0	0.0	1.3	-1.3
15	220 kV	BHANPURA-MORAK	1	0	124	0.0	1.5	-1.5
16	220 kV	MEHGAON-AURAIYA	1	136	0	0.9	0.0	0.9
17	220 kV	MALANPUR-AURAIYA	1	97	0	1.7	0.0	1.7
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	34.2	214.4	-180.1
Import/Export of WR (With SR)								
1	HVDC	BHADRAWATI B/B	-	0	816	0.0	16.4	-16.4
2	HVDC	RAIGARH-PUGALUR	2	0	0	0.0	0.0	0.0
3	765 kV	SOLAPUR-RAICHUR	2	680	1921	1.9	13.5	-11.6
4	765 kV	WARDHA-NIZAMABAD	2	0	2545	0.0	29.6	-29.6
5	400 kV	KOLHAPUR-KUDGI	2	898	0	13.4	0.0	13.4
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	90	1.6	0.0	1.6
					WR-SR	16.9	59.5	-42.6

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)	582	573	582	14.1
	ER	400kV TALA-BINAGURI 1,2,4 (& 400kV MALBASE - BINAGURI) i.e. BINAGURI RECEIPT (from TALA HEP (6*170MW)	1054	1045	1053	25.3
	ER	220kV CHUKHA-BIRPARA 1&2 (& 220kV MALBASE - BIRPARA) i.e. BIRPARA RECEIPT (from CHUKHA HEP 4*84MW)	355	0	328	7.9
	NER	132KV-GEYLEGPHU - SALAKATI	-58	-49	-53	-1.3
	NER	132kV Motanga-Rangia	-71	-52	-61	-1.5
NEPAL	NR	132KV-TANAKPUR(NH) - MAHENDRANAGAR(PG)	-59	0	-32	-0.8
	ER	132KV-BIHAR - NEPAL	86	-122	-29	-0.7
	ER	220KV-MUZAFFARPUR - DHALKEBAR DC	-80	-2	-8	-0.2
BANGLADESH	ER	BHERAMARA HVDC(BANGLADESH)	-952	-941	-949	-22.8
	NER	132KV-SURAJMANI NAGAR - COMILLA(BANGLADESH)-1	72	0	-62	-1.5

	NER	132KV-SURAJMANI NAGAR - COMILLA(BANGLADESH)-2	72	0	-65	-1.6