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, कुतुब इन्स्टीट्यूशनल एरिया, कटवारिया सराये, न्यू दिल्ली-110016

Ref: POSOCO/NLDC/SO/Daily PSP Report

दिनांक:21st August 2021

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 20.08.2021.

महोदय/Dear Sir,

आई०ई०जी०सी०-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 20-अगस्त-2021 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 20th August 2021, 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: 21-Aug-2021**

A. Power Supply Position at All India and Regional level

	NR	WR	SR	ER	NER	TOTAL
Demand Met during Evening Peak hrs(MW) (at 20:00 hrs; from RLDCs)	60977	51516	41888	21676	2854	178911
Peak Shortage (MW)	200	0	0	0	0	200
Energy Met (MU)	1471	1199	997	482	56	4205
Hydro Gen (MU)	352	39	143	145	28	706
Wind Gen (MU)	22	85	93	-	-	200
Solar Gen (MU)*	52.23	24.09	79.84	4.19	0.20	161
Energy Shortage (MU)	3.59	0.10	0.00	0.00	0.00	3.69
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	69521	52242	48572	22261	2950	186575
Time Of Maximum Demand Met (From NLDC SCADA)	00:06	09:41	09:52	21:18	18:58	10:24

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	0.033	0.00	0.53	3.71	4.25	68.22	27.53

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	12744	0	298.3	170.6	-0.9	132	0.00
	Haryana	11144	0	229.2	181.9	-2.3	123	0.00
	Rajasthan	14111	0	300.4	119.6	0.5	662	0.00
	Delhi	6082	0	116.3	104.0	-2.2	133	0.00
	UP	21148	0	395.9	176.9	-4.2	721	0.00
	Uttarakhand	1872	0	42.1	14.2	-0.1	136	0.14
	HP	1507	0	33.7	-4.5	-1.0	56	0.00
	J&K(UT) & Ladakh(UT)	2408	100	49.2	24.1	0.3	356	3.45
	Chandigarh	278	0	6.0	6.4	-0.4	1	0.00
WR	Chhattisgarh	4161	0	98.1	49.8	-2.2	214	0.10
	Gujarat	18471	0	398.6	184.7	2.3	829	0.00
	MP	9324	0	205.3	133.8	2.0	761	0.00
	Maharashtra	20413	0	438.7	111.5	5.2	752	0.00
	Goa	599	0	12.5	11.4	0.5	71	0.00
	DD	325	0	7.3	6.7	0.6	114	0.00
	DNH	842	0	19.7	19.6	0.1	63	0.00
	AMNSIL	839	0	18.4	6.3	-0.1	344	0.00
SR	Andhra Pradesh	9632	0	195.9	81.8	1.6	799	0.00
	Telangana	10408	0	199.7	46.2	-0.4	426	0.00
	Karnataka	10522	0	195.2	27.7	-1.1	576	0.00
	Kerala	3336	0	67.9	41.8	-0.3	212	0.00
	Tamil Nadu	15034	0	330.2	161.5	3.2	981	0.00
	Puducherry	383	0	8.3	8.4	-0.2	56	0.00
ER	Bihar	5981	0	120.7	114.1	0.7	303	0.00
	DVC	3098	0	67.9	-30.0	1.1	356	0.00
	Jharkhand	1382	0	28.5	23.4	-2.3	230	0.00
	Odisha	5109	0	103.7	24.8	-0.4	344	0.00
	West Bengal	7795	0	159.9	45.4	-0.1	437	0.00
	Sikkim	89	0	1.4	1.5	-0.1	20	0.00
NER	Arunachal Pradesh	120	0	2.2	2.1	0.1	38	0.00
	Assam	1909	0	36.1	29.6	0.4	135	0.00
	Manipur	202	0	2.7	2.5	0.2	28	0.00
	Meghalaya	311	0	5.9	1.4	-0.1	25	0.00
	Mizoram	105	0	1.6	1.2	0.0	13	0.00
	Nagaland	135	0	2.4	2.1	-0.2	29	0.00
	Tripura	278	0	4.9	4.7	-0.3	31	0.00

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

	Bhutan	Nepal	Bangladesh
Actual (MU)	51.9	-0.2	-19.5
Day Peak (MW)	2216.0	-94.0	-842.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	355.8	-191.0	-15.7	-146.2	-2.9	0.0
Actual(MU)	325.6	-168.9	-2.1	-155.8	-4.9	-6.1
O/D/U/D(MU)	-30.2	22.1	13.6	-9.7	-2.0	-6.1

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL	% Share
Central Sector	4508	14176	8842	1670	809	30004	46
State Sector	6560	17635	6687	4435	11	35328	54
Total	11068	31810	15529	6105	820	65332	100

G. Sourcewise generation (MU)

	NR	WR	SR	ER	NER	All India	% Share
Coal	648	1149	578	508	10	2893	67
Lignite	24	10	34	0	0	68	2
Hydro	352	39	143	145	28	706	16
Nuclear	22	33	41	0	0	96	2
Gas, Naptha & Diesel	29	47	11	0	28	115	3
RES (Wind, Solar, Biomass & Others)	94	110	207	4	0	416	10
Total	1168	1388	1014	657	66	4294	100

Share of RES in total generation (%)	8.08	7.91	20.40	0.64	0.30	9.68
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	40.07	13.05	38.57	22.68	42.23	28.35

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.048
Based on State Max Demands	1.083

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: 21-Aug-2021

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	1302	0.0	31.6	-31.6
2	HVDC	PUSAULI B/B	-	0	248	0.0	6.0	-6.0
3	765 kV	GAYA-VARANASI	2	0	514	0.0	6.6	-6.6
4	765 kV	SASARAM-FATEHPUR	1	0	285	0.0	4.1	-4.1
5	765 kV	GAYA-BALIA	1	0	551	0.0	10.0	-10.0
6	400 kV	PUSAULI-VARANASI	1	0	150	0.0	2.7	-2.7
7	400 kV	PUSAULI -ALLAHABAD	1	0	167	0.0	3.1	-3.1
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	0	679	0.0	11.9	-11.9
9	400 kV	PATNA-BALIA	4	0	1227	0.0	24.9	-24.9
10	400 kV	BIHARSHARIFF-BALIA	2	0	356	0.0	5.4	-5.4
11	400 kV	MOTIHARI-GORAKHPUR	2	0	447	0.0	8.2	-8.2
12	400 kV	BIHARSHARIFF-VARANASI	2	0	203	0.0	2.3	-2.3
13	220 kV	PUSAULI-SAHUPURI	1	10	95	0.0	1.3	-1.3
14	132 kV	SONE NAGAR-RIHAND	1	0	0	0.0	0.0	0.0
15	132 kV	GARWAH-RIHAND	1	20	0	0.6	0.0	0.6
16	132 kV	KARMANASA-SAHUPURI	1	3	0	0.0	0.0	0.0
17	132 kV	KARMANASA-CHANDAULI	1	0	0	0.0	0.0	0.0
					ER-NR	0.6	118.2	-117.6
Import/Export of ER (With WR)								
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	164	954	0.0	7.4	-7.4
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	1217	147	15.1	0.0	15.1
3	765 kV	JHARSUGUDA-DURG	2	119	183	0.0	0.9	-0.9
4	400 kV	JHARSUGUDA-RAIGARH	4	0	542	0.0	6.9	-6.9
5	400 kV	RANCHI-SIPAT	2	265	141	2.4	0.0	2.4
6	220 kV	BUDHIPADAR-RAIGARH	1	0	180	0.0	2.7	-2.7
7	220 kV	BUDHIPADAR-KORBA	2	29	116	0.0	0.6	-0.6
					ER-WR	17.4	18.5	-1.1
Import/Export of ER (With SR)								
1	HVDC	JEYPORE-GAZUWAKA B/B	2	340	407	0.0	2.2	-2.2
2	HVDC	TALCHER-KOLAR BIPOLE	2	0	1041	0.0	25.3	-25.3
3	765 kV	ANGUL-SRIKAKULAM	2	0	2799	0.0	41.8	-41.8
4	400 kV	TALCHER-I/C	2	381	0	8.1	0.0	8.1
5	220 kV	BALIMELA-UPPER-SILERRU	1	1	0	0.0	0.0	0.0
					ER-SR	0.0	69.3	-69.3
Import/Export of ER (With NER)								
1	400 kV	BINAGURI-BONGAIGAON	2	10	300	0.0	3.4	-3.4
2	400 kV	ALIPURDUAR-BONGAIGAON	2	144	305	0.0	0.8	-0.8
3	220 kV	ALIPURDUAR-SALAKATI	2	0	105	0.0	1.4	-1.4
					ER-NER	0.0	5.6	-5.6
Import/Export of NER (With NR)								
1	HVDC	BISWANATH CHARIALI-AGRA	2	0	504	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	3542	0.0	39.4	-39.4
2	HVDC	VINDHYACHAL B/B	-	243	0	3.8	0.0	3.8
3	HVDC	MUNDRA-MOHINDERGARH	2	0	1452	0.0	23.4	-23.4
4	765 kV	GWALIOR-AGRA	2	0	2113	0.0	36.3	-36.3
5	765 kV	GWALIOR-PHAGI	2	0	2160	0.0	41.7	-41.7
6	765 kV	JABALPUR-ORAI	2	0	1144	0.0	42.1	-42.1
7	765 kV	GWALIOR-ORAI	1	859	0	15.3	0.0	15.3
8	765 kV	SATNA-ORAI	1	0	1004	0.0	21.7	-21.7
9	765 kV	BANASKANTHA-CHITORGARH	2	1037	0	13.7	0.0	13.7
10	765 kV	VINDHYACHAL-VARANASI	2	0	3085	0.0	52.7	-52.7
11	400 kV	ZERDA-KANKROLI	1	249	0	3.7	0.0	3.7
12	400 kV	ZERDA -BHINMAL	1	340	11	4.3	0.0	4.3
13	400 kV	VINDHYACHAL -RIHAND	1	970	0	22.1	0.0	22.1
14	400 kV	RAPP-SHUJALPUR	2	0	599	0.0	9.3	-9.3
15	220 kV	BHANPURA-RANPUR	1	0	107	0.0	1.6	-1.6
16	220 kV	BHANPURA-MORAK	1	0	30	0.0	1.1	-1.1
17	220 kV	MEHGAON-AURAIYA	1	122	0	0.7	0.0	0.7
18	220 kV	MALANPUR-AURAIYA	1	81	4	1.5	0.0	1.5
19	132 kV	GWALIOR-SAWAI MADHOPUR	1	0	0	0.0	0.0	0.0
20	132 kV	RAJGHAT-LALITPUR	2	0	0	0.0	0.0	0.0
					WR-NR	65.0	269.4	-204.4
Import/Export of WR (With SR)								
1	HVDC	BHADRAWATI B/B	-	994	0	23.8	0.0	23.8
2	HVDC	RAIGARH-PUGALUR	2	1917	0	18.3	0.0	18.3
3	765 kV	SOLAPUR-RAICHUR	2	767	1393	0.0	2.3	-2.3
4	765 kV	WARDHA-NIZAMABAD	2	0	2448	0.0	27.1	-27.1
5	400 kV	KOLHAPUR-KUDGI	2	1142	0	20.4	0.0	20.4
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	2	79	1.3	0.0	1.3
					WR-SR	63.8	29.4	34.4

INTERNATIONAL EXCHANGES

Import(+ve)/Export(-ve)

State	Region	Line Name	Max (MW)	Min (MW)	Avg (MW)	Energy Exchange (MU)
BHUTAN	ER	400kV MANGDECHHU-ALIPURDUAR 1,2&3 i.e. ALIPURDUAR RECEIPT (from MANGDECHU HEP 4*180MW)	811	0	790	19.0
	ER	400kV TALA-BINAGURI 1,2,4 (& 400kV MALBASE - BINAGURI) i.e. BINAGURI RECEIPT (from TALA HEP (6*170MW)	1034	1011	1034	24.9
	ER	220kV CHUKHA-BIRPARA 1&2 (& 220kV MALBASE - BIRPARA) i.e. BIRPARA RECEIPT (from CHUKHA HEP 4*84MW)	291	0	265	6.4
	NER	132kV GELEPHU-SALAKATI	29	24	26	0.6
	NER	132kV MOTANGA-RANGIA	52	35	44	1.1
NEPAL	NR	132kV MAHENDRANAGAR-TANAKPUR(NHPC)	-68	0	-33	-0.8
	ER	NEPAL IMPORT (FROM BIHAR)	-16	-1	-4	-0.1
	ER	400kV DHALKEBAR-MUZAFFARPUR 1&2	85	-25	27	0.6
BANGLADESH	ER	BHERAMARA B/B HVDC (BANGLADESH)	-716	-696	-703	-16.9
	NER	132kV COMILLA-SURAJMANI NAGAR 1&2	-126	0	-110	-2.6