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:24th 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 23.08.2021.

महोदय/Dear Sir,

आई०ई०जी०सी०-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 23-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 23rd 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:** **24-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)	59755	52884	41369	22663	2903	179574
Peak Shortage (MW)	375	0	0	0	0	375
Energy Met (MU)	1285	1193	957	498	55	3988
Hydro Gen (MU)	352	36	125	147	27	687
Wind Gen (MU)	20	63	38	-	-	122
Solar Gen (MU)*	54.04	34.91	98.34	5.00	0.14	192
Energy Shortage (MU)	4.28	0.02	0.00	0.00	0.00	4.30
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	61443	52884	46967	23120	2942	180229
Time Of Maximum Demand Met (From NLDC SCADA)	22:19	20:00	10:38	20:48	19:12	19:39

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	0.025	0.00	0.00	4.13	4.13	78.89	16.98

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	10208	0	213.1	153.2	-1.2	116	0.00
	Haryana	8741	0	174.2	132.5	0.6	290	0.00
	Rajasthan	11915	0	254.8	74.0	1.7	820	0.00
	Delhi	5502	0	110.5	103.0	-1.5	113	0.01
	UP	20855	100	406.4	161.8	1.4	594	0.41
	Uttarakhand	1962	0	42.7	12.1	0.6	96	0.18
	HP	1514	0	31.8	-6.9	-0.8	82	0.23
	J&K(UT) & Ladakh(UT)	2357	250	46.1	19.5	1.1	409	3.45
	Chandigarh	282	0	5.6	6.2	-0.5	26	0.00
WR	Chhattisgarh	4412	0	102.4	56.8	-0.4	321	0.02
	Gujarat	17266	0	369.9	184.8	-1.4	908	0.00
	MP	9285	0	211.3	134.2	0.9	429	0.00
	Maharashtra	20456	0	452.1	135.2	3.5	537	0.00
	Goa	610	0	12.4	11.7	0.2	52	0.00
	DD	331	0	6.9	6.5	0.5	94	0.00
	DNH	831	0	18.7	18.9	-0.1	120	0.00
	AMNSIL	866	0	19.4	10.8	-0.9	301	0.00
SR	Andhra Pradesh	9110	0	189.3	98.4	0.6	553	0.00
	Telangana	10673	0	210.5	59.2	2.0	1255	0.00
	Karnataka	9520	0	180.4	6.6	-1.6	565	0.00
	Kerala	3325	0	68.4	39.8	0.4	217	0.00
	Tamil Nadu	13872	0	301.2	156.1	1.4	1375	0.00
	Puducherry	360	0	7.5	7.8	-0.3	31	0.00
ER	Bihar	5946	0	114.0	109.7	-1.4	413	0.00
	DVC	3054	0	65.5	-27.9	0.6	253	0.00
	Jharkhand	1307	0	28.4	22.2	-2.1	175	0.00
	Odisha	5369	0	111.6	30.9	-1.3	343	0.00
	West Bengal	8842	0	176.7	60.4	1.3	521	0.00
	Sikkim	88	0	1.4	1.4	0.0	29	0.00
NER	Arunachal Pradesh	118	0	2.3	2.5	-0.1	26	0.00
	Assam	1877	0	35.1	28.5	0.7	125	0.00
	Manipur	205	0	2.8	2.6	0.2	34	0.00
	Meghalaya	298	0	5.7	1.3	-0.2	45	0.00
	Mizoram	98	0	1.5	1.3	-0.2	11	0.00
	Nagaland	141	0	2.5	2.2	0.0	22	0.00
	Tripura	295	0	5.2	5.3	-0.1	30	0.00

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

	Bhutan	Nepal	Bangladesh
Actual (MU)	51.0	0.1	-19.5
Day Peak (MW)	2245.0	-15.5	-841.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	233.1	-161.0	31.8	-101.9	-2.0	0.0
Actual(MU)	218.1	-158.8	37.8	-96.0	-4.1	-3.1
O/D/U/D(MU)	-15.1	2.1	6.0	5.9	-2.0	-3.1

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL	% Share
Central Sector	5222	15565	9682	2615	559	33642	48
State Sector	8420	16705	6445	4435	11	36016	52
Total	13642	32270	16127	7050	570	69658	100

G. Sourcewise generation (MU)

	NR	WR	SR	ER	NER	All India	% Share
Coal	563	1149	556	450	10	2728	67
Lignite	27	10	34	0	0	71	2
Hydro	352	36	125	147	27	687	17
Nuclear	26	32	41	0	0	99	2
Gas, Naptha & Diesel	23	37	9	0	28	96	2
RES (Wind, Solar, Biomass & Others)	95	98	167	5	0	366	9
Total	1086	1363	932	603	64	4047	100

Share of RES in total generation (%)	8.75	7.22	17.94	0.84	0.22	9.04
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	43.52	12.25	35.75	25.28	42.15	28.46

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.040
Based on State Max Demands	1.065

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: 24-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	1600	0.0	27.1	-27.1
2	HVDC	PUSAULI B/B	-	0	247	0.0	5.8	-5.8
3	765 kV	GAYA-VARANASI	2	394	176	2.5	0.0	2.5
4	765 kV	SASARAM-FATEHPUR	1	98	210	0.0	1.1	-1.1
5	765 kV	GAYA-BALIA	1	0	281	0.0	4.6	-4.6
6	400 kV	PUSAULI-VARANASI	1	0	176	0.0	3.6	-3.6
7	400 kV	PUSAULI -ALLAHABAD	1	0	128	0.0	2.3	-2.3
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	0	446	0.0	7.5	-7.5
9	400 kV	PATNA-BALIA	4	0	668	0.0	9.7	-9.7
10	400 kV	BIHARSHARIFF-BALIA	2	135	117	0.0	0.3	-0.3
11	400 kV	MOTIHARI-GORAKHPUR	2	0	308	0.0	5.0	-5.0
12	400 kV	BIHARSHARIFF-VARANASI	2	163	100	1.8	0.0	1.8
13	220 kV	PUSAULI-SAHUPURI	1	15	55	0.0	0.6	-0.6
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	4.9	67.5	-62.6
Import/Export of ER (With WR)								
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	648	314	1.8	0.0	1.8
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	1467	0	21.4	0.0	21.4
3	765 kV	JHARSUGUDA-DURG	2	120	109	0.1	0.0	0.1
4	400 kV	JHARSUGUDA-RAIGARH	4	0	433	0.0	6.2	-6.2
5	400 kV	RANCHI-SIPAT	2	334	5	4.4	0.0	4.4
6	220 kV	BUDHIPADAR-RAIGARH	1	0	138	0.0	2.3	-2.3
7	220 kV	BUDHIPADAR-KORBA	2	34	43	0.0	0.1	-0.1
					ER-WR	27.6	8.7	18.9
Import/Export of ER (With SR)								
1	HVDC	JEYPORE-GAZUWAKA B/B	2	0	291	0.0	6.3	-6.3
2	HVDC	TALCHER-KOLAR BIPOLE	2	0	1638	0.0	33.2	-33.2
3	765 kV	ANGUL-SRIKAKULAM	2	0	2021	0.0	32.1	-32.1
4	400 kV	TALCHER-I/C	2	0	835	0.0	11.6	-11.6
5	220 kV	BALIMELA-UPPER-SILERRU	1	1	0	0.0	0.0	0.0
					ER-SR	0.0	71.5	-71.5
Import/Export of ER (With NER)								
1	400 kV	BINAGURI-BONGAIGAON	2	19	245	0.0	3.0	-3.0
2	400 kV	ALIPURDUAR-BONGAIGAON	2	136	302	0.0	2.2	-2.2
3	220 kV	ALIPURDUAR-SALAKATI	2	0	94	0.0	1.4	-1.4
					ER-NER	0.0	6.5	-6.5
Import/Export of NER (With NR)								
1	HVDC	BISWANATH CHARIALI-AGRA	2	0	503	0.0	12.2	-12.2
					NER-NR	0.0	12.2	-12.2
Import/Export of WR (With NR)								
1	HVDC	CHAMPA-KURUKSHETRA	2	0	2504	0.0	36.7	-36.7
2	HVDC	VINDHYACHAL B/B	-	244	253	2.8	3.1	-0.3
3	HVDC	MUNDRA-MOHINDERGARH	2	0	494	0.0	12.2	-12.2
4	765 kV	GWALIOR-AGRA	2	0	1512	0.0	25.8	-25.8
5	765 kV	GWALIOR-PHAGI	2	0	1774	0.0	33.8	-33.8
6	765 kV	JABALPUR-ORAI	2	0	768	0.0	30.1	-30.1
7	765 kV	GWALIOR-ORAI	1	741	0	14.2	0.0	14.2
8	765 kV	SATNA-ORAI	1	0	1050	0.0	20.0	-20.0
9	765 kV	BANASKANTHA-CHITORGARH	2	1388	0	17.7	0.0	17.7
10	765 kV	VINDHYACHAL-VARANASI	2	0	2833	0.0	52.3	-52.3
11	400 kV	ZERDA-KANKROLI	1	323	0	5.2	0.0	5.2
12	400 kV	ZERDA -BHINMAL	1	475	0	6.7	0.0	6.7
13	400 kV	VINDHYACHAL -RIHAND	1	965	0	22.1	0.0	22.1
14	400 kV	RAPP-SHUJALPUR	2	0	356	0.0	5.5	-5.5
15	220 kV	BHANPURA-RANPUR	1	0	88	0.0	1.2	-1.2
16	220 kV	BHANPURA-MORAK	1	0	30	0.0	0.8	-0.8
17	220 kV	MEHGAON-AURAIYA	1	134	0	1.3	0.0	1.3
18	220 kV	MALANPUR-AURAIYA	1	94	0	2.0	0.0	2.0
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	72.1	221.5	-149.4
Import/Export of WR (With SR)								
1	HVDC	BHADRAWATI B/B	-	0	214	0.0	5.0	-5.0
2	HVDC	RAIGARH-PUGALUR	2	0	501	0.0	12.1	-12.1
3	765 kV	SOLAPUR-RAICHUR	2	1758	422	17.1	0.0	17.1
4	765 kV	WARDHA-NIZAMABAD	2	277	1568	0.2	13.5	-13.3
5	400 kV	KOLHAPUR-KUDGI	2	1190	0	21.3	0.0	21.3
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	78	1.5	0.0	1.5
					WR-SR	40.2	30.7	9.5

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)	831	0	797	19.1
	ER	400kV TALA-BINAGURI 1,2,4 (& 400kV MALBASE - BINAGURI) i.e. BINAGURI RECEIPT (from TALA HEP (6*170MW)	1034	1019	1022	24.5
	ER	220kV CHUKHA-BIRPARA 1&2 (& 220kV MALBASE - BIRPARA) i.e. BIRPARA RECEIPT (from CHUKHA HEP 4*84MW)	286	0	236	5.7
	NER	132kV GELEPHU-SALAKATI	43	21	27	0.7
	NER	132kV MOTANGA-RANGIA	52	35	43	1.0
NEPAL	NR	132kV MAHENDRANAGAR-TANAKPUR(NHPC)	-58	0	-13	-0.3
	ER	NEPAL IMPORT (FROM BIHAR)	-19	0	-1	0.0
	ER	400kV DHALKEBAR-MUZAFFARPUR 1&2	61	14	18	0.4
BANGLADESH	ER	BHERAMARA B/B HVDC (BANGLADESH)	-697	-687	-688	-16.5
	NER	132kV COMILLA-SURAJMANI NAGAR 1&2	-144	0	-125	-3.0