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 2022

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 20.08.2022.

महोदय/Dear Sir,

आई०ई०जी०सी०-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 20-अगस्त-2022 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 Aug 2022, 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-2022**

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)	65729	48325	43524	23507	3465	184550
Peak Shortage (MW)	0	0	0	0	0	0
Energy Met (MU)	1488	1089	1061	471	67	4176
Hydro Gen (MU)	397	83	176	136	29	821
Wind Gen (MU)	41	121	143	-	-	305
Solar Gen (MU)*	83.29	34.12	96.19	3.88	0.78	218
Energy Shortage (MU)	0.22	0.00	0.00	0.44	0.00	0.66
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	67614	48418	48945	23824	3492	185624
Time Of Maximum Demand Met (From NLDC SCADA)	22:22	19:32	09:47	20:52	19:34	19:29

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	0.24	4.39	4.63	83.69	11.68

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	13416	0	305.8	176.8	-1.6	108	0.00
	Haryana	10580	0	227.8	147.3	1.2	212	0.00
	Rajasthan	10611	0	237.3	61.4	-1.9	223	0.00
	Delhi	5647	0	119.4	108.8	-1.7	460	0.00
	UP	23369	0	466.3	189.4	0.1	403	0.00
	Uttarakhand	2019	0	43.3	24.5	0.2	186	0.22
	HP	1543	0	32.1	-7.3	0.8	212	0.00
	J&K(UT) & Ladakh(UT)	2615	0	50.4	30.3	-5.0	109	0.00
	Chandigarh	282	0	6.1	6.5	-0.5	1	0.00
WR	Chhattisgarh	4187	0	94.3	61.3	-1.2	271	0.00
	Gujarat	12614	0	278.6	154.0	-0.6	1276	0.00
	MP	9269	0	195.1	110.2	-7.6	450	0.00
	Maharashtra	20951	0	461.9	170.4	-0.6	784	0.00
	Goa	600	0	12.6	12.8	-0.2	24	0.00
	DNHDDPDCL	1191	0	27.5	27.4	0.1	42	0.00
	AMNSIL	870	0	19.2	12.6	-0.3	251	0.00
SR	Andhra Pradesh	9947	0	211.9	49.5	1.3	896	0.00
	Telangana	11659	0	223.5	82.0	0.3	822	0.00
	Karnataka	11042	0	205.8	62.2	-0.7	668	0.00
	Kerala	3748	0	78.5	35.9	-0.9	198	0.00
	Tamil Nadu	15550	0	332.0	156.9	0.4	783	0.00
	Puducherry	416	0	9.5	9.1	-0.3	35	0.00
ER	Bihar	6321	0	108.1	97.3	2.2	414	0.44
	DVC	3371	0	65.6	-31.6	-0.4	273	0.00
	Jharkhand	1091	0	18.9	13.0	-2.9	120	0.00
	Odisha	5759	0	124.4	66.1	-0.7	380	0.00
	West Bengal	7826	0	152.4	34.2	0.9	522	0.00
	Sikkim	95	0	1.3	1.4	-0.1	22	0.00
NER	Arunachal Pradesh	155	0	2.7	2.4	0.0	12	0.00
	Assam	2318	0	45.7	38.0	0.2	142	0.00
	Manipur	202	0	2.8	2.7	0.0	19	0.00
	Meghalaya	332	0	5.8	1.8	0.2	73	0.00
	Mizoram	110	0	1.7	0.8	-0.1	50	0.00
	Nagaland	159	0	2.8	2.4	0.0	18	0.00
	Tripura	303	0	5.2	5.4	0.2	37	0.00

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

	Bhutan	Nepal	Bangladesh
Actual (MU)	42.3	7.1	-25.9
Day Peak (MW)	1976.0	311.0	-1104.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	218.7	-108.6	27.9	-138.1	0.1	0.0
Actual(MU)	204.3	-103.1	36.8	-144.7	1.8	-5.0
O/D/U/D(MU)	-14.5	5.4	8.9	-6.6	1.7	-5.0

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL	% Share
Central Sector	3825	16656	5338	2120	309	28247	39
State Sector	6790	23348	8935	4315	130	43518	61
Total	10615	40004	14273	6435	439	71765	100

G. Sourcewise generation (MU)

	NR	WR	SR	ER	NER	All India	% Share
Coal	754	941	491	507	14	2708	62
Lignite	31	9	43	0	0	82	2
Hydro	400	83	176	136	29	824	19
Nuclear	30	36	45	0	0	111	3
Gas, Naptha & Diesel	16	8	8	0	29	61	1
RES (Wind, Solar, Biomass & Others)	143	156	284	4	1	588	13
Total	1373	1233	1048	647	72	4373	100

Share of RES in total generation (%)	10.41	12.64	27.12	0.60	1.08	13.44
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	41.68	22.33	48.27	21.59	40.64	34.82

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.036
Based on State Max Demands	1.078

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-2022

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	702	0.0	17.3	-17.3
2	HVDC	PUSAULI B/B	-	0	397	0.0	9.8	-9.8
3	765 kV	GAYA-VARANASI	2	236	751	0.0	5.5	-5.5
4	765 kV	SASARAM-FATEHPUR	1	104	264	0.0	1.9	-1.9
5	765 kV	GAYA-BALIA	1	0	683	0.0	10.4	-10.4
6	400 kV	PUSAULI-VARANASI	1	0	278	0.0	5.9	-5.9
7	400 kV	PUSAULI -ALLAHABAD	1	0	209	0.0	3.8	-3.8
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	0	1115	0.0	19.0	-19.0
9	400 kV	PATNA-BALIA	2	0	583	0.0	9.3	-9.3
10	400 kV	NAUBATPUR-BALIA	2	0	616	0.0	9.6	-9.6
11	400 kV	BIHARSHARIFF-BALIA	2	0	536	0.0	6.8	-6.8
12	400 kV	MOTIHARI-GORAKHPUR	2	0	532	0.0	8.6	-8.6
13	400 kV	BIHARSHARIFF-VARANASI	2	104	305	0.0	2.0	-2.0
14	220 kV	SAHUPURI-KARAMNASA	1	11	104	0.0	1.2	-1.2
15	132 kV	NAGAR UNTARI-RIHAND	1	0	0	0.0	0.0	0.0
16	132 kV	GARWAH-RIHAND	1	25	0	0.3	0.0	0.3
17	132 kV	KARMANASA-SAHUPURI	1	0	35	0.0	0.0	0.0
18	132 kV	KARMANASA-CHANDAULI	1	0	0	0.0	0.0	0.0
					ER-NR	0.3	110.9	-110.6
Import/Export of ER (With WR)								
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	831	0	9.9	0.0	9.9
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	999	950	4.9	0.0	4.9
3	765 kV	JHARSUGUDA-DURG	2	0	346	0.0	4.1	-4.1
4	400 kV	JHARSUGUDA-RAIGARH	4	0	650	0.0	9.1	-9.1
5	400 kV	RANCHI-SIPAT	2	145	372	0.0	1.8	-1.8
6	220 kV	BUDHIPADAR-RAIGARH	1	6	106	0.0	0.9	-0.9
7	220 kV	BUDHIPADAR-KORBA	2	47	99	0.0	0.6	-0.6
					ER-WR	14.8	16.5	-1.6
Import/Export of ER (With SR)								
1	HVDC	JEYPORE-GAZUWAKA B/B	2	305	0	7.5	0.0	7.5
2	HVDC	TALCHER-KOLAR BIPOLE	2	0	1192	0.0	28.9	-28.9
3	765 kV	ANGUL-SRIKAKULAM	2	0	2903	0.0	47.3	-47.3
4	400 kV	TALCHER-I/C	2	730	192	11.5	0.0	11.5
5	220 kV	BALIMELA-UPPER-SILERRU	1	2	0	0.0	0.0	0.0
					ER-SR	7.5	76.1	-68.6
Import/Export of ER (With NER)								
1	400 kV	BINAGURI-BONGAIGAON	2	0	340	0.0	4.8	-4.8
2	400 kV	ALIPURDUAR-BONGAIGAON	2	0	468	0.0	6.3	-6.3
3	220 kV	ALIPURDUAR-SALAKATI	2	0	103	0.0	1.6	-1.6
					ER-NER	0.0	12.7	-12.7
Import/Export of NER (With NR)								
1	HVDC	BISWANATH CHARIALI-AGRA	2	0	503	0.0	12.0	-12.0
					NER-NR	0.0	12.0	-12.0
Import/Export of WR (With NR)								
1	HVDC	CHAMPA-KURUKSHETRA	2	0	1003	0.0	11.8	-11.8
2	HVDC	VINDHYACHAL B/B	-	447	0	12.2	0.0	12.2
3	HVDC	MUNDRA-MOHINDERGARH	2	0	0	0.0	0.0	0.0
4	765 kV	GWALIOR-AGRA	2	0	2269	0.0	29.9	-29.9
5	765 kV	GWALIOR-PHAGI	2	192	1694	0.3	20.2	-19.9
6	765 kV	JABALPUR-ORAI	2	0	1011	0.0	24.8	-24.8
7	765 kV	GWALIOR-ORAI	1	657	0	11.4	0.0	11.4
8	765 kV	SATNA-ORAI	1	0	1076	0.0	19.6	-19.6
9	765 kV	BANASKANTHA-CHITORGARH	2	818	334	2.5	0.0	2.5
10	765 kV	VINDHYACHAL-VARANASI	2	0	2776	0.0	43.3	-43.3
11	400 kV	ZERDA-KANKROLI	1	247	33	2.3	0.0	2.3
12	400 kV	ZERDA -BHINMAL	1	677	24	7.4	0.0	7.4
13	400 kV	VINDHYACHAL -RIHAND	1	957	0	21.9	0.0	21.9
14	400 kV	RAPP-SHUJALPUR	2	346	569	2.0	4.0	-2.0
15	220 kV	BHANPURA-RANPUR	1	0	0	0.0	0.0	0.0
16	220 kV	BHANPURA-MORAK	1	0	30	2.4	0.0	2.4
17	220 kV	MEHGAON-AURAIYA	1	83	0	0.6	0.0	0.6
18	220 kV	MALANPUR-AURAIYA	1	67	8	1.2	0.0	1.2
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	64.0	153.6	-89.6
Import/Export of WR (With SR)								
1	HVDC	BHADRAWATI B/B	-	787	0	9.4	0.0	9.4
2	HVDC	RAIGARH-PUGALUR	2	570	1500	0.0	14.7	-14.7
3	765 kV	SOLAPUR-RAICHUR	2	727	1546	4.7	4.6	0.1
4	765 kV	WARDHA-NIZAMABAD	2	0	2835	0.0	34.3	-34.3
5	400 kV	KOLHAPUR-KUDGI	2	1690	0	26.7	0.0	26.7
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	104	2.0	0.0	2.0
					WR-SR	42.8	53.6	-10.7

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)	679	0	652	15.6
	ER	400kV TALA-BINAGURI 1,2,4 (& 400kV MALBASE - BINAGURI) i.e. BINAGURI RECEIPT (from TALA HEP (6*170MW)	1046	0	973	23.4
	ER	220kV CHUKHA-BIRPARA 1&2 (& 220kV MALBASE - BIRPARA) i.e. BIRPARA RECEIPT (from CHUKHA HEP 4*84MW)	217	0	188	4.5
	NER	132kV GELEPHU-SALAKATI	21	11	18	0.4
	NER	132kV MOTANGA-RANGIA	47	21	34	0.8
NEPAL	NR	132kV MAHENDRANAGAR-TANAKPUR(NHPC)	-67	0	-34	-0.8
	ER	NEPAL IMPORT (FROM BIHAR)	0	0	0	0.0
	ER	400kV DHALKEBAR-MUZAFFARPUR 1&2	378	182	330	7.9
BANGLADESH	ER	BHERAMARA B/B HVDC (BANGLADESH)	-934	-924	-926	-22.2
	NER	132kV COMILLA-SURAJMANI NAGAR 1&2	-170	0	-153	-3.7