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: 22nd 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 21-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 21st 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:** **22-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)	64773	46236	39163	23893	3280	177345
Peak Shortage (MW)	0	0	0	154	0	154
Energy Met (MU)	1472	1055	1004	508	65	4104
Hydro Gen (MU)	408	81	161	134	29	814
Wind Gen (MU)	24	148	182	-	-	355
Solar Gen (MU)*	97.12	32.18	100.43	4.29	0.88	235
Energy Shortage (MU)	1.41	0.00	0.00	0.11	0.00	1.52
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	68597	46356	47567	24835	3306	178394
Time Of Maximum Demand Met (From NLDC SCADA)	22:41	19:32	09:42	21:58	20:03	19:48

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	0.050	0.00	1.68	5.42	7.09	71.48	21.42

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	13252	0	308.4	185.4	-0.8	110	0.00
	Haryana	10335	0	220.1	142.1	1.3	247	0.38
	Rajasthan	11010	0	237.2	71.0	-1.7	354	0.00
	Delhi	6064	0	117.8	107.1	-1.5	84	0.00
	UP	23585	0	463.2	206.1	-1.1	393	0.00
	Uttarakhand	2003	0	43.2	20.9	0.6	227	0.00
	HP	1405	0	25.9	-8.3	0.5	814	1.03
	J&K(UT) & Ladakh(UT)	2678	0	50.5	28.8	-3.5	274	0.00
	Chandigarh	307	0	5.8	6.2	-0.4	26	0.00
WR	Chhattisgarh	3951	0	89.3	52.1	0.6	328	0.00
	Gujarat	12806	0	289.3	175.7	-5.7	425	0.00
	MP	7999	0	172.7	60.9	-4.3	470	0.00
	Maharashtra	20000	0	446.7	160.4	-1.9	693	0.00
	Goa	546	0	11.2	11.5	-0.4	43	0.00
	DNHDDPDCL	1150	0	26.8	26.6	0.2	89	0.00
	AMNSIL	833	0	18.8	12.4	-0.5	184	0.00
SR	Andhra Pradesh	10599	0	215.3	57.2	1.1	826	0.00
	Telangana	11815	0	212.1	70.6	1.3	883	0.00
	Karnataka	10033	0	184.8	44.1	-2.5	672	0.00
	Kerala	3378	0	70.9	30.2	-0.8	217	0.00
	Tamil Nadu	13840	0	312.0	136.8	-4.7	453	0.00
	Puducherry	388	0	9.0	8.4	-0.1	36	0.00
ER	Bihar	6378	0	120.1	114.1	0.7	257	0.11
	DVC	3561	0	70.0	-29.2	0.1	238	0.00
	Jharkhand	1360	0	25.4	17.8	-1.3	165	0.00
	Odisha	5731	0	125.3	71.1	-1.5	255	0.00
	West Bengal	8494	0	166.1	44.3	1.5	442	0.00
	Sikkim	76	0	1.1	1.2	-0.1	36	0.00
NER	Arunachal Pradesh	137	0	2.5	2.4	-0.3	14	0.00
	Assam	2219	0	44.7	37.2	-0.2	87	0.00
	Manipur	183	0	2.6	2.7	-0.1	19	0.00
	Meghalaya	289	0	5.8	1.9	0.0	26	0.00
	Mizoram	94	0	1.6	0.7	-0.2	1	0.00
	Nagaland	163	0	2.7	2.4	-0.2	24	0.00
	Tripura	322	0	5.5	5.5	0.3	54	0.00

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

	Bhutan	Nepal	Bangladesh
Actual (MU)	41.2	10.2	-25.8
Day Peak (MW)	2094.0	333.0	-1092.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	240.8	-149.7	8.5	-99.3	-0.3	0.0
Actual(MU)	227.7	-132.0	-4.2	-98.4	-0.2	-7.1
O/D/U/D(MU)	-13.1	17.7	-12.7	0.9	0.1	-7.1

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL	% Share
Central Sector	3825	16856	5088	2920	444	29132	38
State Sector	6815	23653	12170	4415	187	47240	62
Total	10640	40509	17258	7335	631	76372	100

G. Sourcewise generation (MU)

	NR	WR	SR	ER	NER	All India	% Share
Coal	705	914	446	498	14	2576	60
Lignite	31	7	52	0	0	90	2
Hydro	410	81	161	134	29	816	19
Nuclear	30	32	45	0	0	107	2
Gas, Naptha & Diesel	15	8	8	0	29	61	1
RES (Wind, Solar, Biomass & Others)	139	181	327	4	1	652	15
Total	1330	1225	1038	636	73	4302	100

Share of RES in total generation (%)	10.46	14.78	31.45	0.68	1.20	15.15
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	43.55	24.05	51.31	21.75	41.48	36.62

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.069
Based on State Max Demands	1.105

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: 22-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	701	0.0	17.3	-17.3
2	HVDC	PUSAULI B/B	-	0	348	0.0	8.4	-8.4
3	765 kV	GAYA-VARANASI	2	562	544	0.0	0.2	-0.2
4	765 kV	SASARAM-FATEHPUR	1	181	266	0.0	1.0	-1.0
5	765 kV	GAYA-BALIA	1	0	710	0.0	10.7	-10.7
6	400 kV	PUSAULI-VARANASI	1	0	244	0.0	4.9	-4.9
7	400 kV	PUSAULI -ALLAHABAD	1	0	182	0.0	3.3	-3.3
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	0	1058	0.0	16.9	-16.9
9	400 kV	PATNA-BALIA	2	0	557	0.0	9.0	-9.0
10	400 kV	NAUBATPUR-BALIA	2	0	595	0.0	9.3	-9.3
11	400 kV	BIHARSHARIFF-BALIA	2	0	482	0.0	6.8	-6.8
12	400 kV	MOTIHARI-GORAKHPUR	2	0	507	0.0	7.3	-7.3
13	400 kV	BIHARSHARIFF-VARANASI	2	235	230	0.0	0.3	-0.3
14	220 kV	SAHUPURI-KARAMNASA	1	36	106	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	0.4	0.0	0.4
17	132 kV	KARMANASA-SAHUPURI	1	0	0	0.0	0.0	0.0
18	132 kV	KARMANASA-CHANDAULI	1	0	0	0.0	0.0	0.0
					ER-NR	0.4	96.6	-96.2
Import/Export of ER (With WR)								
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	983	0	12.8	0.0	12.8
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	1403	472	16.0	0.0	16.0
3	765 kV	JHARSUGUDA-DURG	2	111	269	0.0	1.8	-1.8
4	400 kV	JHARSUGUDA-RAIGARH	4	64	327	0.0	3.7	-3.7
5	400 kV	RANCHI-SIPAT	2	288	176	1.7	0.0	1.7
6	220 kV	BUDHIPADAR-RAIGARH	1	31	39	0.0	0.2	-0.2
7	220 kV	BUDHIPADAR-KORBA	2	83	21	0.9	0.0	0.9
					ER-WR	31.3	5.7	25.7
Import/Export of ER (With SR)								
1	HVDC	JEYPORE-GAZUWAKA B/B	2	594	0	10.0	0.0	10.0
2	HVDC	TALCHER-KOLAR BIPOLE	2	0	1982	0.0	31.4	-31.4
3	765 kV	ANGUL-SRIKAKULAM	2	0	1955	0.0	41.4	-41.4
4	400 kV	TALCHER-I/C	2	703	248	7.0	0.0	7.0
5	220 kV	BALIMELA-UPPER-SILERRU	1	2	0	0.0	0.0	0.0
					ER-SR	10.0	72.8	-62.8
Import/Export of ER (With NER)								
1	400 kV	BINAGURI-BONGAIGAON	2	0	314	0.0	4.0	-4.0
2	400 kV	ALIPURDUAR-BONGAIGAON	2	149	397	0.0	4.8	-4.8
3	220 kV	ALIPURDUAR-SALAKATI	2	0	113	0.0	1.7	-1.7
					ER-NER	0.0	10.6	-10.6
Import/Export of NER (With NR)								
1	HVDC	BISWANATH CHARIALI-AGRA	2	0	501	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	1514	0.0	16.2	-16.2
2	HVDC	VINDHYACHAL B/B	-	444	0	8.0	0.0	8.0
3	HVDC	MUNDRA-MOHINDERGARH	2	0	311	0.0	3.4	-3.4
4	765 kV	GWALIOR-AGRA	2	0	2299	0.0	34.3	-34.3
5	765 kV	GWALIOR-PHAGI	2	331	1508	0.5	19.5	-19.1
6	765 kV	JABALPUR-ORAI	2	0	1052	0.0	30.8	-30.8
7	765 kV	GWALIOR-ORAI	1	616	0	10.7	0.0	10.7
8	765 kV	SATNA-ORAI	1	0	1015	0.0	19.3	-19.3
9	765 kV	BANASKANTHA-CHITORGARH	2	728	290	3.8	0.0	3.8
10	765 kV	VINDHYACHAL-VARANASI	2	0	3275	0.0	56.0	-56.0
11	400 kV	ZERDA-KANKROLI	1	215	30	2.2	0.0	2.2
12	400 kV	ZERDA -BHINMAL	1	500	38	5.5	0.0	5.5
13	400 kV	VINDHYACHAL -RIHAND	1	963	0	21.6	0.0	21.6
14	400 kV	RAPP-SHUJALPUR	2	197	568	0.9	5.3	-4.4
15	220 kV	BHANPURA-RANPUR	1	0	0	0.0	0.0	0.0
16	220 kV	BHANPURA-MORAK	1	0	30	0.0	2.1	-2.1
17	220 kV	MEHGAON-AURAIYA	1	98	0	0.3	0.0	0.3
18	220 kV	MALANPUR-AURAIYA	1	64	23	1.0	0.0	1.0
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	54.4	186.9	-132.5
Import/Export of WR (With SR)								
1	HVDC	BHADRAWATI B/B	-	984	0	13.2	0.0	13.2
2	HVDC	RAIGARH-PUGALUR	2	1453	2500	2.6	0.0	2.6
3	765 kV	SOLAPUR-RAICHUR	2	1409	1370	11.3	3.2	8.1
4	765 kV	WARDHA-NIZAMABAD	2	0	2745	0.0	28.0	-28.0
5	400 kV	KOLHAPUR-KUDGI	2	1548	0	28.4	0.0	28.4
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	1	98	1.8	0.0	1.8
					WR-SR	57.3	31.2	26.1

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)	700	0	608	14.6
	ER	400kV TALA-BINAGURI 1,2,4 (& 400kV MALBASE - BINAGURI) i.e. BINAGURI RECEIPT (from TALA HEP (6*170MW)	1062	931	942	22.6
	ER	220kV CHUKHA-BIRPARA 1&2 (& 220kV MALBASE - BIRPARA) i.e. BIRPARA RECEIPT (from CHUKHA HEP 4*84MW)	273	201	220	5.3
	NER	132kV GELEPHU-SALAKATI	30	11	16	0.4
	NER	132kV MOTANGA-RANGIA	50	0	40	1.0
NEPAL	NR	132kV MAHENDRANAGAR-TANAKPUR(NHPC)	-69	0	-43	-1.0
	ER	NEPAL IMPORT (FROM BIHAR)	0	0	0	0.0
	ER	400kV DHALKEBAR-MUZAFFARPUR 1&2	402	218	402	11.2
BANGLADESH	ER	BHERAMARA B/B HVDC (BANGLADESH)	-924	-904	-912	-21.9
	NER	132kV COMILLA-SURAJMANI NAGAR 1&2	-168	0	-163	-3.9