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: 20th 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 19.08.2022.

महोदय/Dear Sir,

आई०ई०जी०सी०-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 19-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 19th 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:** **20-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)	65468	48665	43875	22821	3292	184121
Peak Shortage (MW)	0	0	0	0	0	0
Energy Met (MU)	1569	1109	1095	529	66	4368
Hydro Gen (MU)	404	83	177	127	31	823
Wind Gen (MU)	53	151	137	-	-	341
Solar Gen (MU)*	97.28	38.94	97.45	3.97	0.85	238
Energy Shortage (MU)	0.48	0.00	8.67	8.75	0.00	17.90
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	70314	49045	51732	25785	3309	192735
Time Of Maximum Demand Met (From NLDC SCADA)	12:29	19:42	12:19	00:00	19:09	12:25

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	0.00	0.67	0.67	73.93	25.40

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	14011	0	311.3	179.3	-1.1	97	0.00
	Haryana	10304	0	226.8	147.4	-0.1	301	0.43
	Rajasthan	10161	0	225.0	45.4	-2.7	364	0.00
	Delhi	5711	0	118.2	107.6	-1.8	83	0.00
	UP	24925	0	547.4	245.1	-2.1	325	0.00
	Uttarakhand	2115	0	47.8	25.7	-0.4	145	0.05
	HP	1625	0	32.8	-8.6	-0.2	145	0.00
	J&K(UT) & Ladakh(UT)	2687	0	53.7	31.2	-2.4	334	0.00
	Chandigarh	291	0	6.3	6.7	-0.5	12	0.00
WR	Chhattisgarh	4408	0	104.3	68.8	1.0	227	0.00
	Gujarat	11349	0	262.2	131.2	-5.5	1081	0.00
	MP	10187	0	227.5	121.8	0.0	616	0.00
	Maharashtra	20398	0	456.1	169.9	-0.2	917	0.00
	Goa	619	0	12.5	12.9	-0.4	35	0.00
	DNHDDPDCL	1172	0	27.3	27.2	0.1	47	0.00
	AMNSIL	861	0	19.2	12.1	-0.1	247	0.00
SR	Andhra Pradesh	10306	0	209.0	55.5	-0.7	623	0.00
	Telangana	12277	0	221.8	74.5	1.7	805	8.67
	Karnataka	11268	0	226.9	58.6	0.8	760	0.00
	Kerala	3800	0	79.1	37.7	-1.1	244	0.00
	Tamil Nadu	15906	0	349.2	165.3	0.0	882	0.00
	Puducherry	407	0	9.2	8.8	-0.2	38	0.00
ER	Bihar	6474	1457	129.6	119.6	0.2	571	7.46
	DVC	3448	0	71.4	-32.1	0.3	260	0.00
	Jharkhand	1512	0	31.3	23.9	-1.8	252	1.29
	Odisha	6063	0	130.0	70.7	-1.8	353	0.00
	West Bengal	8795	0	164.9	44.9	0.3	396	0.00
	Sikkim	93	0	1.5	1.5	-0.1	20	0.00
NER	Arunachal Pradesh	152	0	2.7	2.7	-0.3	101	0.00
	Assam	2235	0	45.6	38.5	-0.1	168	0.00
	Manipur	183	0	2.5	2.9	-0.4	14	0.00
	Meghalaya	318	0	5.6	1.9	0.2	65	0.00
	Mizoram	93	0	1.7	0.8	-0.3	11	0.00
	Nagaland	159	0	2.8	2.4	-0.1	22	0.00
	Tripura	275	0	5.2	4.7	-0.1	87	0.00

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

	Bhutan	Nepal	Bangladesh
Actual (MU)	40.6	4.5	-25.3
Day Peak (MW)	2084.0	217.4	-1090.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	240.3	-127.0	18.9	-129.0	-3.2	0.0
Actual(MU)	227.1	-142.3	35.2	-124.1	-4.9	-9.0
O/D/U/D(MU)	-13.2	-15.3	16.3	4.9	-1.7	-9.0

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL	% Share
Central Sector	3615	17316	5548	2070	309	28857	40
State Sector	6325	23206	8685	4065	130	42411	60
Total	9940	40522	14233	6135	439	71268	100

G. Sourcewise generation (MU)

	NR	WR	SR	ER	NER	All India	% Share
Coal	787	940	510	558	16	2811	62
Lignite	21	9	58	0	0	88	2
Hydro	407	83	177	127	31	825	18
Nuclear	30	40	44	0	0	113	2
Gas, Naptha & Diesel	18	9	8	0	29	64	1
RES (Wind, Solar, Biomass & Others)	170	191	281	4	1	646	14
Total	1433	1271	1078	689	77	4548	100

Share of RES in total generation (%)	11.86	15.01	26.03	0.58	1.10	14.21
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	42.31	24.70	46.50	19.06	41.64	34.85

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.039
Based on State Max Demands	1.061

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: 20-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	1151	0.0	24.3	-24.3
2	HVDC	PUSAULI B/B	-	0	397	0.0	9.5	-9.5
3	765 kV	GAYA-VARANASI	2	371	530	0.0	2.9	-2.9
4	765 kV	SASARAM-FATEHPUR	1	169	168	0.0	1.1	-1.1
5	765 kV	GAYA-BALIA	1	0	614	0.0	10.2	-10.2
6	400 kV	PUSAULI-VARANASI	1	0	274	0.0	5.7	-5.7
7	400 kV	PUSAULI -ALLAHABAD	1	0	209	0.0	3.8	-3.8
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	0	1064	0.0	19.1	-19.1
9	400 kV	PATNA-BALIA	2	0	551	0.0	8.6	-8.6
10	400 kV	NAUBATPUR-BALIA	2	2	581	0.0	8.8	-8.8
11	400 kV	BIHARSHARIFF-BALIA	2	0	463	0.0	5.1	-5.1
12	400 kV	MOTIHARI-GORAKHPUR	2	0	520	0.0	9.1	-9.1
13	400 kV	BIHARSHARIFF-VARANASI	2	127	233	0.0	1.5	-1.5
14	220 kV	SAHUPURI-KARAMNASA	1	0	134	0.0	2.4	-2.4
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	111.9	-111.5
Import/Export of ER (With WR)								
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	971	28	10.8	0.0	10.8
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	1112	0	11.5	0.0	11.5
3	765 kV	JHARSUGUDA-DURG	2	0	201	0.0	2.3	-2.3
4	400 kV	JHARSUGUDA-RAIGARH	4	0	528	0.0	8.0	-8.0
5	400 kV	RANCHI-SIPAT	2	203	87	0.9	0.0	0.9
6	220 kV	BUDHIPADAR-RAIGARH	1	16	102	0.0	0.9	-0.9
7	220 kV	BUDHIPADAR-KORBA	2	37	135	0.0	1.2	-1.2
					ER-WR	23.2	12.4	10.8
Import/Export of ER (With SR)								
1	HVDC	JEYPORE-GAZUWAKA B/B	2	303	0	7.4	0.0	7.4
2	HVDC	TALCHER-KOLAR BIPOLE	2	0	1189	0.0	28.9	-28.9
3	765 kV	ANGUL-SRIKAKULAM	2	0	2696	0.0	45.3	-45.3
4	400 kV	TALCHER-I/C	2	712	0	14.5	0.0	14.5
5	220 kV	BALIMELA-UPPER-SILERRU	1	2	0	0.0	0.0	0.0
					ER-SR	7.4	74.1	-66.7
Import/Export of ER (With NER)								
1	400 kV	BINAGURI-BONGAIGAON	2	96	322	0.0	5.7	-5.7
2	400 kV	ALIPURDUAR-BONGAIGAON	2	328	388	0.0	1.6	-1.6
3	220 kV	ALIPURDUAR-SALAKATI	2	20	95	0.0	1.3	-1.3
					ER-NER	0.0	8.5	-8.5
Import/Export of NER (With NR)								
1	HVDC	BISWANATH CHARIALI-AGRA	2	0	501	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	1006	0.0	23.8	-23.8
2	HVDC	VINDHYACHAL B/B	-	447	0	12.1	0.0	12.1
3	HVDC	MUNDRA-MOHINDERGARH	2	0	814	0.0	4.1	-4.1
4	765 kV	GWALIOR-AGRA	2	0	1914	0.0	28.6	-28.6
5	765 kV	GWALIOR-PHAGI	2	576	1317	1.9	14.4	-12.5
6	765 kV	JABALPUR-ORAI	2	0	886	0.0	25.2	-25.2
7	765 kV	GWALIOR-ORAI	1	557	0	8.8	0.0	8.8
8	765 kV	SATNA-ORAI	1	0	952	0.0	18.2	-18.2
9	765 kV	BANASKANTHA-CHITORGARH	2	222	904	0.0	5.9	-5.9
10	765 kV	VINDHYACHAL-VARANASI	2	0	2714	0.0	47.5	-47.5
11	400 kV	ZERDA-KANKROLI	1	163	60	1.0	0.0	1.0
12	400 kV	ZERDA -BHINMAL	1	456	0	6.1	0.0	6.1
13	400 kV	VINDHYACHAL -RIHAND	1	959	0	21.5	0.0	21.5
14	400 kV	RAPP-SHUJALPUR	2	323	375	2.5	2.8	-0.3
15	220 kV	BHANPURA-RANPUR	1	0	0	0.0	0.0	0.0
16	220 kV	BHANPURA-MORAK	1	0	30	2.2	0.0	2.2
17	220 kV	MEHGAON-AURAIYA	1	102	0	0.7	0.0	0.7
18	220 kV	MALANPUR-AURAIYA	1	64	0	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	58.3	170.4	-112.1
Import/Export of WR (With SR)								
1	HVDC	BHADRAWATI B/B	-	787	0	14.3	0.0	14.3
2	HVDC	RAIGARH-PUGALUR	2	0	1499	0.0	16.9	-16.9
3	765 kV	SOLAPUR-RAICHUR	2	883	1042	4.3	6.7	-2.4
4	765 kV	WARDHA-NIZAMABAD	2	0	2957	0.0	36.7	-36.7
5	400 kV	KOLHAPUR-KUDGI	2	1444	0	24.8	0.0	24.8
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	106	1.8	0.0	1.8
					WR-SR	45.1	60.3	-15.2

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)	709	0	605	14.5
	ER	400kV TALA-BINAGURI 1,2,4 (& 400kV MALBASE - BINAGURI) i.e. BINAGURI RECEIPT (from TALA HEP (6*170MW)	1104	0	1021	24.5
	ER	220kV CHUKHA-BIRPARA 1&2 (& 220kV MALBASE - BIRPARA) i.e. BIRPARA RECEIPT (from CHUKHA HEP 4*84MW)	248	0	110	2.6
	NER	132kV GELEPHU-SALAKATI	-21	-4	-11	-0.3
	NER	132kV MOTANGA-RANGIA	-46	-19	-31	-0.8
NEPAL	NR	132kV MAHENDRANAGAR-TANAKPUR(NHPC)	-74	0	-50	-1.2
	ER	NEPAL IMPORT (FROM BIHAR)	-30	-3	-7	-0.2
	ER	400kV DHALKEBAR-MUZAFFARPUR 1&2	321	156	243	5.8
BANGLADESH	ER	BHERAMARA B/B HVDC (BANGLADESH)	-928	-917	-926	-22.2
	NER	132kV COMILLA-SURAJMANI NAGAR 1&2	-162	0	-127	-3.0