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: 18th 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 17.08.2022.

महोदय/Dear Sir,

आई०ई०जी०सी०-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 17-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 17th 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:** **18-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)	63772	50024	43999	26017	3480	187292
Peak Shortage (MW)	725	0	0	1130	0	1855
Energy Met (MU)	1417	1097	1068	575	68	4225
Hydro Gen (MU)	395	76	183	138	30	822
Wind Gen (MU)	25	197	87	-	-	309
Solar Gen (MU)*	63.17	29.56	115.86	4.75	0.73	214
Energy Shortage (MU)	4.11	0.00	0.00	6.76	0.00	10.87
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	67323	50544	49269	27059	3596	189173
Time Of Maximum Demand Met (From NLDC SCADA)	22:34	19:45	09:42	22:43	18:56	19:44

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	0.28	0.41	6.97	7.65	82.75	9.61

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	13099	0	293.7	181.7	-1.6	24	0.00
	Haryana	9860	0	205.6	135.7	-0.6	136	0.00
	Rajasthan	8762	0	188.4	35.0	-2.9	202	0.00
	Delhi	5486	0	113.3	102.8	-1.7	33	0.00
	UP	25002	0	482.2	204.3	1.0	500	3.18
	Uttarakhand	2195	0	48.3	25.4	0.9	202	0.53
	HP	1502	0	30.6	-9.3	0.1	265	0.40
	J&K(UT) & Ladakh(UT)	2559	0	48.6	24.4	-0.8	188	0.00
	Chandigarh	339	0	6.8	7.4	-0.6	2	0.00
WR	Chhattisgarh	4198	0	91.2	57.7	-1.3	292	0.00
	Gujarat	13460	0	301.8	139.7	-4.1	922	0.00
	MP	9547	0	199.0	80.4	0.0	1126	0.00
	Maharashtra	20837	0	446.2	148.8	0.9	1425	0.00
	Goa	617	0	12.6	13.1	-0.5	39	0.00
	DNHDDPDCL	1193	0	27.6	27.5	0.1	42	0.00
	AMNSIL	828	0	18.6	11.2	0.5	309	0.00
SR	Andhra Pradesh	10272	0	210.0	70.2	1.3	698	0.00
	Telangana	11291	0	204.7	53.6	-0.5	690	0.00
	Karnataka	10533	0	211.8	60.4	-2.1	479	0.00
	Kerala	3784	0	78.3	36.7	-1.5	192	0.00
	Tamil Nadu	15932	0	353.7	193.5	-1.1	736	0.00
	Puducherry	431	0	9.2	8.8	-0.2	49	0.00
ER	Bihar	6797	187	137.6	125.7	1.6	475	5.86
	DVC	3493	0	74.5	-34.9	0.8	344	0.00
	Jharkhand	1572	259	33.5	25.0	-0.9	171	0.90
	Odisha	6175	0	129.8	65.3	-0.9	295	0.00
	West Bengal	9739	0	197.7	75.3	1.8	420	0.00
	Sikkim	102	0	1.6	1.6	0.0	18	0.00
NER	Arunachal Pradesh	150	0	2.7	2.3	0.0	28	0.00
	Assam	2342	0	45.7	38.0	0.2	120	0.00
	Manipur	206	0	2.8	2.7	0.1	29	0.00
	Meghalaya	348	0	6.3	1.5	0.1	32	0.00
	Mizoram	109	0	1.8	0.4	0.0	5	0.00
	Nagaland	161	0	2.9	2.4	0.0	17	0.00
	Tripura	311	0	5.8	5.6	0.4	48	0.00

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

	Bhutan	Nepal	Bangladesh
Actual (MU)	41.5	5.7	-25.9
Day Peak (MW)	1911.0	269.6	-1086.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	210.9	-177.9	59.2	-89.9	-2.3	0.0
Actual(MU)	192.6	-180.4	70.7	-78.6	-0.4	3.8
O/D/U/D(MU)	-18.4	-2.5	11.5	11.3	1.9	3.8

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL	% Share
Central Sector	4022	17916	5768	1620	309	29634	42
State Sector	6575	22576	9105	2800	174	41229	58
Total	10597	40492	14873	4420	482	70863	100

G. Sourcewise generation (MU)

	NR	WR	SR	ER	NER	All India	% Share
Coal	735	953	481	550	16	2735	62
Lignite	30	8	58	0	0	97	2
Hydro	398	76	183	138	30	824	19
Nuclear	30	40	44	0	0	114	3
Gas, Naptha & Diesel	18	5	8	0	29	60	1
RES (Wind, Solar, Biomass & Others)	106	227	251	5	1	590	13
Total	1317	1310	1025	693	76	4420	100

Share of RES in total generation (%)	8.07	17.35	24.53	0.68	0.96	13.35
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	40.53	26.18	46.63	20.61	41.09	34.58

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.046
Based on State Max Demands	1.074

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: 18-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	1153	0.0	28.7	-28.7
2	HVDC	PUSAULI B/B	-	0	49	0.0	1.3	-1.3
3	765 kV	GAYA-VARANASI	2	611	148	3.5	0.0	3.5
4	765 kV	SASARAM-FATEHPUR	1	117	203	0.0	1.8	-1.8
5	765 kV	GAYA-BALIA	1	0	545	0.0	7.8	-7.8
6	400 kV	PUSAULI-VARANASI	1	0	74	0.0	1.0	-1.0
7	400 kV	PUSAULI -ALLAHABAD	1	17	39	0.0	0.1	-0.1
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	0	826	0.0	13.1	-13.1
9	400 kV	PATNA-BALIA	2	2	352	0.0	5.9	-5.9
10	400 kV	NAUBATPUR-BALIA	2	1	359	0.0	4.9	-4.9
11	400 kV	BIHARSHARIFF-BALIA	2	146	212	0.0	1.3	-1.3
12	400 kV	MOTIHARI-GORAKHPUR	2	0	424	0.0	6.0	-6.0
13	400 kV	BIHARSHARIFF-VARANASI	2	242	110	0.6	0.0	0.6
14	220 kV	SAHUPURI-KARAMNASA	1	10	144	0.0	2.0	-2.0
15	132 kV	NAGAR UNTARI-RIHAND	1	0	0	0.1	0.0	0.1
16	132 kV	GARWAH-RIHAND	1	25	0	0.3	0.0	0.3
17	132 kV	KARMANASA-SAHUPURI	1	0	59	0.0	0.0	0.0
18	132 kV	KARMANASA-CHANDAULI	1	0	0	0.0	0.1	-0.1
					ER-NR	4.5	73.9	-69.3
Import/Export of ER (With WR)								
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	1162	111	13.0	0.0	13.0
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	1323	126	19.9	0.0	19.9
3	765 kV	JHARSUGUDA-DURG	2	37	209	0.0	2.2	-2.2
4	400 kV	JHARSUGUDA-RAIGARH	4	79	411	0.0	3.2	-3.2
5	400 kV	RANCHI-SIPAT	2	292	75	3.3	0.0	3.3
6	220 kV	BUDHIPADAR-RAIGARH	1	88	34	0.6	0.0	0.6
7	220 kV	BUDHIPADAR-KORBA	2	147	22	1.7	0.0	1.7
					ER-WR	38.4	5.4	33.1
Import/Export of ER (With SR)								
1	HVDC	JEYPORE-GAZUWAKA B/B	2	299	0	7.4	0.0	7.4
2	HVDC	TALCHER-KOLAR BIPOLE	2	0	1976	0.0	37.8	-37.8
3	765 kV	ANGUL-SRIKAKULAM	2	0	2706	0.0	45.3	-45.3
4	400 kV	TALCHER-I/C	2	453	252	5.8	0.0	5.8
5	220 kV	BALIMELA-UPPER-SILERRU	1	2	0	0.0	0.0	0.0
					ER-SR	7.4	83.1	-75.7
Import/Export of ER (With NER)								
1	400 kV	BINAGURI-BONGAIGAON	2	0	379	0.0	5.7	-5.7
2	400 kV	ALIPURDUAR-BONGAIGAON	2	212	306	0.0	2.9	-2.9
3	220 kV	ALIPURDUAR-SALAKATI	2	0	104	0.0	1.7	-1.7
					ER-NER	0.0	10.3	-10.3
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	1008	0.0	10.0	-10.0
2	HVDC	VINDHYACHAL B/B	-	445	0	12.1	0.0	12.1
3	HVDC	MUNDRA-MOHINDERGARH	2	0	0	0.0	0.0	0.0
4	765 kV	GWALIOR-AGRA	2	0	2137	0.0	35.3	-35.3
5	765 kV	GWALIOR-PHAGI	2	143	1266	0.0	15.1	-15.1
6	765 kV	JABALPUR-ORAI	2	0	698	0.0	19.7	-19.7
7	765 kV	GWALIOR-ORAI	1	706	0	12.9	0.0	12.9
8	765 kV	SATNA-ORAI	1	0	833	0.0	17.6	-17.6
9	765 kV	BANASKANTHA-CHITORGARH	2	226	621	0.0	6.0	-6.0
10	765 kV	VINDHYACHAL-VARANASI	2	0	3156	0.0	59.2	-59.2
11	400 kV	ZERDA-KANKROLI	1	148	48	1.0	0.0	1.0
12	400 kV	ZERDA -BHINMAL	1	339	48	3.6	0.0	3.6
13	400 kV	VINDHYACHAL -RIHAND	1	968	0	22.2	0.0	22.2
14	400 kV	RAPP-SHUJALPUR	2	415	61	4.4	0.4	4.1
15	220 kV	BHANPURA-RANPUR	1	0	0	0.0	0.0	0.0
16	220 kV	BHANPURA-MORAK	1	0	30	0.0	1.8	-1.8
17	220 kV	MEHGAON-AURAIYA	1	103	0	0.4	0.1	0.3
18	220 kV	MALANPUR-AURAIYA	1	65	13	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	57.7	165.1	-107.3
Import/Export of WR (With SR)								
1	HVDC	BHADRAWATI B/B	-	293	0	7.2	0.0	7.2
2	HVDC	RAIGARH-PUGALUR	2	0	2502	0.0	25.8	-25.8
3	765 kV	SOLAPUR-RAICHUR	2	774	2011	0.0	6.8	-6.8
4	765 kV	WARDHA-NIZAMABAD	2	0	3101	0.0	35.9	-35.9
5	400 kV	KOLHAPUR-KUDGI	2	1225	0	19.6	0.0	19.6
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	78	1.5	0.0	1.5
					WR-SR	28.3	68.4	-40.1

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)	580	0	537	12.9
	ER	400kV TALA-BINAGURI 1,2,4 (& 400kV MALBASE - BINAGURI) i.e. BINAGURI RECEIPT (from TALA HEP (6*170MW)	1046	1027	1028	24.7
	ER	220kV CHUKHA-BIRPARA 1&2 (& 220kV MALBASE - BIRPARA) i.e. BIRPARA RECEIPT (from CHUKHA HEP 4*84MW)	245	0	221	5.3
	NER	132kV GELEPHU-SALAKATI	-24	-9	-16	-0.4
	NER	132kV MOTANGA-RANGIA	-47	-22	-37	-0.9
NEPAL	NR	132kV MAHENDRANAGAR-TANAKPUR(NHPC)	-73	0	-52	-1.2
	ER	NEPAL IMPORT (FROM BIHAR)	-16	0	-3	-0.1
	ER	400kV DHALKEBAR-MUZAFFARPUR 1&2	359	178	292	7.0
BANGLADESH	ER	BHERAMARA B/B HVDC (BANGLADESH)	-922	-915	-920	-22.1
	NER	132kV COMILLA-SURAJMANI NAGAR 1&2	-164	0	-160	-3.8