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: 17th 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 16.08.2022.

महोदय/Dear Sir,

आई०ई०जी०सी०-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 16-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 16th 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:** **17-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)	60384	48180	43729	25550	3324	181167
Peak Shortage (MW)	60	38	0	999	0	1097
Energy Met (MU)	1310	1040	997	541	63	3951
Hydro Gen (MU)	368	85	178	134	31	797
Wind Gen (MU)	32	135	69	-	-	235
Solar Gen (MU)*	94.90	22.53	113.95	4.89	0.83	237
Energy Shortage (MU)	1.18	0.22	0.00	4.56	0.00	5.96
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	63314	47970	48122	26353	3351	180990
Time Of Maximum Demand Met (From NLDC SCADA)	22:29	19:28	09:52	22:41	19:20	19:51

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	0.089	1.60	3.47	8.14	13.20	61.20	25.60

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	12801	0	277.1	168.9	-0.8	171	0.00
	Haryana	9125	0	193.8	122.7	-0.6	204	0.00
	Rajasthan	9652	0	206.9	46.6	-5.2	395	0.00
	Delhi	5096	0	109.3	100.0	-2.8	142	1.07
	UP	23072	0	397.4	163.1	-0.1	832	0.00
	Uttarakhand	2186	0	44.8	23.4	0.8	169	0.00
	HP	1541	0	27.6	-8.6	-0.4	145	0.00
	J&K(UT) & Ladakh(UT)	2471	0	47.2	21.8	0.1	190	0.11
	Chandigarh	335	0	6.4	6.6	-0.2	7	0.00
WR	Chhattisgarh	3870	177	81.1	46.9	-0.5	295	0.22
	Gujarat	14602	0	312.4	192.1	-4.1	1208	0.00
	MP	8544	0	169.8	44.1	0.0	1011	0.00
	Maharashtra	20246	0	422.5	131.4	0.4	761	0.00
	Goa	616	0	12.2	12.3	-0.2	55	0.00
	DNHDDPDCL	1172	0	25.0	24.9	0.1	58	0.00
	AMNSIL	794	0	16.8	9.8	0.3	301	0.00
SR	Andhra Pradesh	10129	0	201.9	66.5	0.6	658	0.00
	Telangana	10221	0	186.7	42.3	0.2	555	0.00
	Karnataka	9817	0	180.7	54.4	0.7	628	0.00
	Kerala	3807	0	76.0	34.3	-1.2	175	0.00
	Tamil Nadu	16058	0	343.9	200.2	0.7	681	0.00
	Puducherry	368	0	8.2	7.8	-0.2	25	0.00
ER	Bihar	6806	187	132.6	119.8	1.7	414	3.24
	DVC	3459	0	72.9	-33.3	0.6	369	0.00
	Jharkhand	1537	0	31.2	22.5	-0.7	189	1.32
	Odisha	6068	0	125.8	66.1	-0.4	550	0.00
	West Bengal	9170	0	177.5	58.0	1.5	520	0.00
	Sikkim	96	0	1.4	1.3	0.1	35	0.00
NER	Arunachal Pradesh	145	0	2.5	2.1	0.1	24	0.00
	Assam	2206	0	41.2	33.2	-0.4	88	0.00
	Manipur	199	0	2.7	2.7	0.0	25	0.00
	Meghalaya	341	0	6.2	1.2	0.0	35	0.00
	Mizoram	111	0	1.7	0.4	-0.1	8	0.00
	Nagaland	155	0	2.9	2.4	0.0	12	0.00
	Tripura	307	0	5.6	5.3	0.0	47	0.00

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

	Bhutan	Nepal	Bangladesh
Actual (MU)	42.5	6.7	-25.2
Day Peak (MW)	2067.0	341.0	-1074.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	174.5	-132.2	55.0	-90.0	-7.3	0.0
Actual(MU)	129.1	-131.9	75.6	-70.6	-6.4	-4.2
O/D/U/D(MU)	-45.3	0.3	20.5	19.4	0.9	-4.2

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL	% Share
Central Sector	4482	18576	7048	2320	309	32734	44
State Sector	7065	21466	9605	2800	109	41045	56
Total	11547	40042	16653	5120	418	73779	100

G. Sourcewise generation (MU)

	NR	WR	SR	ER	NER	All India	% Share
Coal	664	903	450	513	15	2544	61
Lignite	27	11	57	0	0	95	2
Hydro	370	85	178	134	31	799	19
Nuclear	30	40	47	0	0	117	3
Gas, Naptha & Diesel	16	3	7	0	29	55	1
RES (Wind, Solar, Biomass & Others)	145	158	227	5	1	536	13
Total	1252	1200	966	652	76	4146	100

Share of RES in total generation (%)	11.58	13.14	23.52	0.76	1.09	12.92
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	43.56	23.58	46.86	21.31	42.30	35.02

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.045
Based on State Max Demands	1.089

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: 17-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	1152	0.0	27.7	-27.7
2	HVDC	PUSAULI B/B	-	0	49	0.0	1.1	-1.1
3	765 kV	GAYA-VARANASI	2	763	197	4.6	0.0	4.6
4	765 kV	SASARAM-FATEHPUR	1	193	242	0.0	1.4	-1.4
5	765 kV	GAYA-BALIA	1	16	559	0.0	6.7	-6.7
6	400 kV	PUSAULI-VARANASI	1	0	89	0.0	1.0	-1.0
7	400 kV	PUSAULI -ALLAHABAD	1	31	45	0.0	0.1	-0.1
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	0	790	0.0	11.4	-11.4
9	400 kV	PATNA-BALIA	2	96	452	0.0	5.1	-5.1
10	400 kV	NAUBATPUR-BALIA	2	133	487	0.0	4.9	-4.9
11	400 kV	BIHARSHARIFF-BALIA	2	261	353	0.0	2.1	-2.1
12	400 kV	MOTIHARI-GORAKHPUR	2	83	317	0.0	4.3	-4.3
13	400 kV	BIHARSHARIFF-VARANASI	2	283	94	0.9	0.0	0.9
14	220 kV	SAHUPURI-KARAMNASA	1	50	133	0.0	1.3	-1.3
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	62	0.0	0.0	0.0
18	132 kV	KARMANASA-CHANDAULI	1	0	0	0.0	0.0	0.0
					ER-NR	5.9	67.2	-61.3
Import/Export of ER (With WR)								
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	1167	209	11.3	0.0	11.3
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	1223	408	14.8	0.0	14.8
3	765 kV	JHARSUGUDA-DURG	2	15	232	0.0	2.2	-2.2
4	400 kV	JHARSUGUDA-RAIGARH	4	145	339	0.0	1.1	-1.1
5	400 kV	RANCHI-SIPAT	2	299	111	3.0	0.0	3.0
6	220 kV	BUDHIPADAR-RAIGARH	1	107	10	1.1	0.0	1.1
7	220 kV	BUDHIPADAR-KORBA	2	204	0	3.0	0.0	3.0
					ER-WR	33.1	3.3	29.8
Import/Export of ER (With SR)								
1	HVDC	JEYPORE-GAZUWAKA B/B	2	493	16	9.5	0.0	9.5
2	HVDC	TALCHER-KOLAR BIPOLE	2	0	1980	0.0	39.6	-39.6
3	765 kV	ANGUL-SRIKAKULAM	2	0	2812	0.0	46.1	-46.1
4	400 kV	TALCHER-I/C	2	399	472	1.5	0.0	1.5
5	220 kV	BALIMELA-UPPER-SILERRU	1	2	0	0.0	0.0	0.0
					ER-SR	9.5	85.7	-76.2
Import/Export of ER (With NER)								
1	400 kV	BINAGURI-BONGAIGAON	2	58	254	0.0	3.2	-3.2
2	400 kV	ALIPURDUAR-BONGAIGAON	2	272	170	0.4	0.0	0.4
3	220 kV	ALIPURDUAR-SALAKATI	2	11	92	0.0	1.0	-1.0
					ER-NER	0.4	4.2	-3.8
Import/Export of NER (With NR)								
1	HVDC	BISWANATH CHARIALI-AGRA	2	0	502	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	708	0.0	13.3	-13.3
2	HVDC	VINDHYACHAL B/B	-	447	0	12.2	0.0	12.2
3	HVDC	MUNDRA-MOHINDERGARH	2	0	310	0.0	3.6	-3.6
4	765 kV	GWALIOR-AGRA	2	121	2021	0.0	20.8	-20.8
5	765 kV	GWALIOR-PHAGI	2	546	1467	0.0	16.5	-16.5
6	765 kV	JABALPUR-ORAI	2	103	831	0.0	16.0	-16.0
7	765 kV	GWALIOR-ORAI	1	724	0	11.2	0.0	11.2
8	765 kV	SATNA-ORAI	1	0	950	0.0	16.9	-16.9
9	765 kV	BANASKANTHA-CHITORGARH	2	1776	277	19.8	0.0	19.8
10	765 kV	VINDHYACHAL-VARANASI	2	0	3017	0.0	52.7	-52.7
11	400 kV	ZERDA-KANKROLI	1	415	6	5.3	0.0	5.3
12	400 kV	ZERDA -BHINMAL	1	936	25	10.1	0.0	10.1
13	400 kV	VINDHYACHAL -RIHAND	1	964	0	22.1	0.0	22.1
14	400 kV	RAPP-SHUJALPUR	2	415	191	0.0	0.9	-0.9
15	220 kV	BHANPURA-RANPUR	1	0	0	0.0	0.0	0.0
16	220 kV	BHANPURA-MORAK	1	0	30	0.0	1.6	-1.6
17	220 kV	MEHGAON-AURAIYA	1	80	0	0.5	0.0	0.5
18	220 kV	MALANPUR-AURAIYA	1	59	10	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	82.2	142.1	-59.9
Import/Export of WR (With SR)								
1	HVDC	BHADRAWATI B/B	-	493	0	7.3	0.0	7.3
2	HVDC	RAIGARH-PUGALUR	2	0	3005	0.0	32.0	-32.0
3	765 kV	SOLAPUR-RAICHUR	2	874	1639	0.0	6.7	-6.7
4	765 kV	WARDHA-NIZAMABAD	2	79	2817	0.0	33.0	-33.0
5	400 kV	KOLHAPUR-KUDGI	2	1188	0	20.6	0.0	20.6
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	76	1.3	0.0	1.3
					WR-SR	29.2	71.8	-42.6

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)	704	0	611	14.7
	ER	400kV TALA-BINAGURI 1,2,4 (& 400kV MALBASE - BINAGURI) i.e. BINAGURI RECEIPT (from TALA HEP (6*170MW)	1097	1034	1037	24.9
	ER	220kV CHUKHA-BIRPARA 1&2 (& 220kV MALBASE - BIRPARA) i.e. BIRPARA RECEIPT (from CHUKHA HEP 4*84MW)	250	0	210	5.0
	NER	132kV GELEPHU-SALAKATI	-29	-4	-20	-0.5
	NER	132kV MOTANGA-RANGIA	-46	-25	-35	-0.8
NEPAL	NR	132kV MAHENDRANAGAR-TANAKPUR(NHPC)	-76	0	-47	-1.1
	ER	NEPAL IMPORT (FROM BIHAR)	0	0	0	0.0
	ER	400kV DHALKEBAR-MUZAFFARPUR 1&2	417	184	327	7.9
BANGLADESH	ER	BHERAMARA B/B HVDC (BANGLADESH)	-914	-902	-903	-21.7
	NER	132kV COMILLA-SURAJMANI NAGAR 1&2	-160	0	-146	-3.5