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: 14th 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 13.08.2022.

महोदय/Dear Sir,

आई०ई०जी०सी०-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 13-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 13th 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:** **14-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)	65613	48836	41312	24715	3239	183715
Peak Shortage (MW)	294	0	0	340	0	634
Energy Met (MU)	1510	1086	1001	547	64	4209
Hydro Gen (MU)	400	87	189	128	32	836
Wind Gen (MU)	20	194	189	-	-	403
Solar Gen (MU)*	58.83	39.21	90.56	4.01	0.44	193
Energy Shortage (MU)	2.83	0.00	0.00	3.55	0.00	6.38
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	68822	48841	45675	25089	3277	183851
Time Of Maximum Demand Met (From NLDC SCADA)	21:01	19:26	09:41	19:29	19:02	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	0.049	0.00	1.68	12.88	14.56	78.27	7.18

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	13783	0	312.4	188.4	-1.5	87	0.00
	Haryana	10306	0	228.6	146.6	0.8	213	0.00
	Rajasthan	9450	0	214.9	53.2	-2.8	369	0.12
	Delhi	5866	0	119.7	108.8	-1.5	199	0.00
	UP	24666	0	495.5	213.1	0.4	732	1.83
	Uttarakhand	2133	0	47.9	24.4	-0.2	83	0.57
	HP	1589	0	33.4	-7.4	0.2	83	0.21
	J&K(UT) & Ladakh(UT)	2568	0	50.4	25.5	0.1	164	0.10
	Chandigarh	332	0	6.8	7.2	-0.4	16	0.00
WR	Chhattisgarh	3688	0	84.1	54.4	0.6	350	0.00
	Gujarat	14199	0	314.5	160.7	-3.7	691	0.00
	MP	9097	0	195.6	48.4	0.0	468	0.00
	Maharashtra	19940	0	433.0	120.3	0.7	966	0.00
	Goa	612	0	12.5	12.4	0.1	42	0.00
	DNHDDPDCL	1158	0	27.2	27.1	0.1	112	0.00
	AMNSIL	833	0	18.8	12.3	-0.4	259	0.00
SR	Andhra Pradesh	9165	0	200.6	37.2	-0.9	597	0.00
	Telangana	11679	0	202.6	66.1	-0.4	846	0.00
	Karnataka	8613	0	164.7	30.1	-1.7	530	0.00
	Kerala	3580	0	74.5	30.9	-1.3	194	0.00
	Tamil Nadu	15780	0	349.1	160.8	0.1	1553	0.00
	Puducherry	434	0	9.9	9.1	0.1	84	0.00
ER	Bihar	6456	104	137.6	123.0	3.9	627	0.64
	DVC	3352	0	71.6	-35.6	0.8	411	0.00
	Jharkhand	1498	298	31.0	23.3	-1.0	161	2.91
	Odisha	5923	0	125.1	72.7	-2.7	374	0.00
	West Bengal	8594	0	180.6	55.7	0.4	433	0.00
	Sikkim	87	0	1.4	1.5	-0.1	18	0.00
NER	Arunachal Pradesh	140	0	2.5	1.9	0.2	27	0.00
	Assam	2206	0	43.9	36.2	0.1	168	0.00
	Manipur	190	0	2.7	2.7	0.0	18	0.00
	Meghalaya	316	0	5.8	-0.1	0.3	61	0.00
	Mizoram	105	0	1.7	0.5	-0.1	21	0.00
	Nagaland	155	0	2.8	2.4	-0.1	7	0.00
	Tripura	294	0	5.2	4.6	0.3	65	0.00

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

	Bhutan	Nepal	Bangladesh
Actual (MU)	39.2	7.2	-25.4
Day Peak (MW)	2030.0	-452.5	-1089.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	269.7	-161.2	-7.8	-93.4	-7.2	0.0
Actual(MU)	259.1	-161.8	-3.7	-84.5	-5.9	3.2
O/D/U/D(MU)	-10.6	-0.6	4.1	9.0	1.4	3.2

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL	% Share
Central Sector	4912	21156	8338	2610	309	37324	46
State Sector	7665	21141	12140	2980	109	44035	54
Total	12577	42297	20478	5590	418	81359	100

G. Sourcewise generation (MU)

	NR	WR	SR	ER	NER	All India	% Share
Coal	774	913	432	545	16	2679	61
Lignite	25	9	51	0	0	85	2
Hydro	400	87	189	128	32	836	19
Nuclear	25	40	47	0	0	112	3
Gas, Naptha & Diesel	16	2	9	0	30	56	1
RES (Wind, Solar, Biomass & Others)	97	234	319	4	0	655	15
Total	1337	1285	1046	677	77	4423	100

Share of RES in total generation (%)	7.28	18.22	30.47	0.59	0.57	14.80
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	39.06	28.12	53.05	19.50	41.36	36.23

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.043
Based on State Max Demands	1.081

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: 14-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	26.7	-26.7
2	HVDC	PUSAULI B/B	-	0	49	0.0	1.1	-1.1
3	765 kV	GAYA-VARANASI	2	737	127	4.2	0.0	4.2
4	765 kV	SASARAM-FATEHPUR	1	179	223	0.0	1.8	-1.8
5	765 kV	GAYA-BALIA	1	0	733	0.0	12.5	-12.5
6	400 kV	PUSAULI-VARANASI	1	0	92	0.0	1.1	-1.1
7	400 kV	PUSAULI -ALLAHABAD	1	35	50	0.0	0.1	-0.1
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	0	834	0.0	13.2	-13.2
9	400 kV	PATNA-BALIA	2	0	557	0.0	9.2	-9.2
10	400 kV	NAUBATPUR-BALIA	2	0	668	0.0	11.1	-11.1
11	400 kV	BIHARSHARIFF-BALIA	2	0	553	0.0	7.0	-7.0
12	400 kV	MOTIHARI-GORAKHPUR	2	0	464	0.0	6.4	-6.4
13	400 kV	BIHARSHARIFF-VARANASI	2	236	143	0.0	0.0	0.0
14	220 kV	SAHUPURI-KARAMNASA	1	22	170	0.0	2.6	-2.6
15	132 kV	NAGAR UNTARI-RIHAND	1	0	0	0.0	0.0	0.0
16	132 kV	GARWAH-RIHAND	1	25	0	0.2	0.0	0.2
17	132 kV	KARMANASA-SAHUPURI	1	0	47	0.0	0.0	0.0
18	132 kV	KARMANASA-CHANDAULI	1	0	0	0.0	0.0	0.0
					ER-NR	4.5	92.8	-88.3
Import/Export of ER (With WR)								
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	983	305	10.6	0.0	10.6
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	1377	184	21.7	0.0	21.7
3	765 kV	JHARSUGUDA-DURG	2	118	263	0.0	2.5	-2.5
4	400 kV	JHARSUGUDA-RAIGARH	4	302	248	0.0	0.6	-0.6
5	400 kV	RANCHI-SIPAT	2	318	94	4.0	0.0	4.0
6	220 kV	BUDHIPADAR-RAIGARH	1	87	21	0.8	0.0	0.8
7	220 kV	BUDHIPADAR-KORBA	2	164	3	1.9	0.0	1.9
					ER-WR	38.9	3.2	35.8
Import/Export of ER (With SR)								
1	HVDC	JEYPORE-GAZUWAKA B/B	2	385	0	7.6	0.0	7.6
2	HVDC	TALCHER-KOLAR BIPOLE	2	0	1658	0.0	37.3	-37.3
3	765 kV	ANGUL-SRIKAKULAM	2	0	2737	0.0	40.6	-40.6
4	400 kV	TALCHER-I/C	2	703	598	5.2	0.0	5.2
5	220 kV	BALIMELA-UPPER-SILERRU	1	2	0	0.0	0.0	0.0
					ER-SR	7.6	77.9	-70.3
Import/Export of ER (With NER)								
1	400 kV	BINAGURI-BONGAIGAON	2	8	276	0.0	3.5	-3.5
2	400 kV	ALIPURDUAR-BONGAIGAON	2	266	167	0.3	0.0	0.3
3	220 kV	ALIPURDUAR-SALAKATI	2	8	78	0.0	0.9	-0.9
					ER-NER	0.3	4.4	-4.0
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	3020	0.0	40.3	-40.3
2	HVDC	VINDHYACHAL B/B	-	442	0	12.2	0.0	12.2
3	HVDC	MUNDRA-MOHINDERGARH	2	0	512	0.0	12.2	-12.2
4	765 kV	GWALIOR-AGRA	2	108	2070	0.0	35.2	-35.1
5	765 kV	GWALIOR-PHAGI	2	202	1218	0.2	16.3	-16.1
6	765 kV	JABALPUR-ORAI	2	0	721	0.0	21.7	-21.7
7	765 kV	GWALIOR-ORAI	1	737	0	13.3	0.0	13.3
8	765 kV	SATNA-ORAI	1	0	840	0.0	17.4	-17.4
9	765 kV	BANASKANTHA-CHITORGARH	2	986	733	0.3	0.0	0.3
10	765 kV	VINDHYACHAL-VARANASI	2	0	3358	0.0	66.7	-66.7
11	400 kV	ZERDA-KANKROLI	1	217	72	1.4	0.0	1.4
12	400 kV	ZERDA -BHINMAL	1	352	101	2.6	0.0	2.6
13	400 kV	VINDHYACHAL -RIHAND	1	961	0	21.0	0.0	21.0
14	400 kV	RAPP-SHUJALPUR	2	0	191	0.0	4.6	-4.6
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	65	0	0.4	0.1	0.4
18	220 kV	MALANPUR-AURAIYA	1	98	17	0.6	0.0	0.6
19	132 kV	GWALIOR-SAWAI MADHOPUR	1	0	0	0.0	0.0	0.0
20	132 kV	RAJGHAT-LALITPUR	2	0	0	10.8	0.0	10.8
					WR-NR	62.8	216.1	-153.3
Import/Export of WR (With SR)								
1	HVDC	BHADRAWATI B/B	-	984	0	16.2	0.0	16.2
2	HVDC	RAIGARH-PUGALUR	2	2877	748	24.5	0.0	24.5
3	765 kV	SOLAPUR-RAICHUR	2	1269	2092	4.5	7.8	-3.4
4	765 kV	WARDHA-NIZAMABAD	2	0	3210	0.0	36.3	-36.3
5	400 kV	KOLHAPUR-KUDGI	2	1488	0	24.4	0.0	24.4
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	0	114	2.0	0.0	2.0
					WR-SR	71.6	44.1	27.5

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)	749	0	509	12.2
	ER	400kV TALA-BINAGURI 1,2,4 (& 400kV MALBASE - BINAGURI) i.e. BINAGURI RECEIPT (from TALA HEP (6*170MW)	1064	0	1008	24.2
	ER	220kV CHUKHA-BIRPARA 1&2 (& 220kV MALBASE - BIRPARA) i.e. BIRPARA RECEIPT (from CHUKHA HEP 4*84MW)	206	172	172	4.1
	NER	132kV GELEPHU-SALAKATI	-31	-11	-17	-0.4
	NER	132kV MOTANGA-RANGIA	-47	-24	-37	-0.9
NEPAL	NR	132kV MAHENDRANAGAR-TANAKPUR(NHPC)	-74	0	-36	-0.9
	ER	NEPAL IMPORT (FROM BIHAR)	12	0	-3	-0.1
	ER	400kV DHALKEBAR-MUZAFFARPUR 1&2	-391	-222	338	8.1
BANGLADESH	ER	BHERAMARA B/B HVDC (BANGLADESH)	-920	-915	-918	-22.0
	NER	132kV COMILLA-SURAJMANI NAGAR 1&2	-169	0	-138	-3.3