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: 01st September 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 31.08.2022.

महोदय/Dear Sir,

आई०ई०जी०सी०-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 31-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 31st 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:** **01-Sep-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)	67532	52848	37832	25002	3184	186398
Peak Shortage (MW)	3422	0	0	1654	0	5076
Energy Met (MU)	1619	1257	916	564	62	4418
Hydro Gen (MU)	374	121	167	155	31	848
Wind Gen (MU)	13	20	31	-	-	64
Solar Gen (MU)*	115.93	45.54	97.92	4.99	0.54	265
Energy Shortage (MU)	20.41	0.00	0.00	17.30	0.00	37.71
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	72021	54268	42989	25884	3228	193919
Time Of Maximum Demand Met (From NLDC SCADA)	12:35	11:32	09:16	23:30	18:44	11:37

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	0.03	1.11	6.03	7.18	81.51	11.32

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	13750	0	307.5	176.6	-1.0	111	0.00
	Haryana	11620	0	247.2	176.2	-0.3	170	2.45
	Rajasthan	13746	0	279.5	120.5	1.7	319	9.40
	Delhi	6253	0	127.6	115.8	-1.1	162	0.00
	UP	24698	0	514.1	230.3	3.4	568	6.31
	Uttarakhand	2221	75	49.0	22.2	0.8	156	0.83
	HP	1619	0	33.7	-5.3	0.3	87	0.41
	J&K(UT) & Ladakh(UT)	2643	255	53.0	27.4	1.8	354	1.01
	Chandigarh	366	0	7.2	6.9	0.3	49	0.00
WR	Chhattisgarh	4663	0	113.0	68.5	0.7	263	0.00
	Gujarat	17321	0	372.5	214.1	-6.9	906	0.00
	MP	10271	0	229.7	116.2	0.0	409	0.00
	Maharashtra	21643	0	488.5	190.7	0.3	628	0.00
	Goa	486	0	10.6	10.5	-0.3	94	0.00
	DNHDDPDCL	1150	0	25.7	25.7	0.0	58	0.00
	AMNSIL	822	0	17.2	8.7	-0.1	263	0.00
SR	Andhra Pradesh	9179	0	196.1	65.0	1.0	598	0.00
	Telangana	11315	0	206.3	65.0	-1.0	563	0.00
	Karnataka	8208	0	159.8	43.5	-2.0	554	0.00
	Kerala	3482	0	71.6	29.1	-1.4	151	0.00
	Tamil Nadu	12287	0	274.3	153.0	-3.9	478	0.00
	Puducherry	358	0	8.1	7.8	-0.4	67	0.00
ER	Bihar	6139	1384	128.4	122.9	0.2	336	13.81
	DVC	3373	0	71.7	-26.4	-1.8	314	0.00
	Jharkhand	1516	0	32.0	22.0	-1.5	192	3.49
	Odisha	5913	0	127.3	52.1	-0.1	385	0.00
	West Bengal	9745	0	203.0	79.7	0.2	534	0.00
	Sikkim	88	0	1.5	1.6	-0.1	20	0.00
NER	Arunachal Pradesh	141	0	2.4	2.3	-0.4	13	0.00
	Assam	2043	0	39.1	32.6	-0.2	156	0.00
	Manipur	201	0	2.8	2.8	0.0	35	0.00
	Meghalaya	344	0	6.2	2.1	0.2	115	0.00
	Mizoram	110	0	1.8	0.7	0.1	13	0.00
	Nagaland	157	0	2.7	2.4	-0.2	13	0.00
	Tripura	312	0	6.5	5.9	0.9	72	0.00

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

	Bhutan	Nepal	Bangladesh
Actual (MU)	43.6	8.3	-25.3
Day Peak (MW)	2009.0	338.5	-1073.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	333.2	-162.6	-37.5	-125.3	-7.9	0.0
Actual(MU)	316.7	-144.4	-47.4	-120.2	-9.0	-4.3
O/D/U/D(MU)	-16.5	18.2	-9.9	5.1	-1.2	-4.3

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL	% Share
Central Sector	3352	11121	5798	2530	309	23109	37
State Sector	9085	17113	7742	4540	162	38641	63
Total	12437	28234	13540	7070	470	61750	100

G. Sourcewise generation (MU)

	NR	WR	SR	ER	NER	All India	% Share
Coal	774	1207	553	561	17	3112	67
Lignite	30	8	54	0	0	92	2
Hydro	377	121	167	155	31	850	18
Nuclear	32	40	46	0	0	119	3
Gas, Naptha & Diesel	19	4	7	0	29	60	1
RES (Wind, Solar, Biomass & Others)	148	67	176	5	1	396	9
Total	1381	1446	1003	721	78	4628	100

Share of RES in total generation (%)	10.69	4.62	17.53	0.69	0.69	8.55
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	40.33	15.73	38.77	22.18	40.35	29.48

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.023
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: 01-Sep-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	1001	0.0	17.0	-17.0
2	HVDC	PUSAULI B/B	-	0	346	0.0	8.3	-8.3
3	765 kV	GAYA-VARANASI	2	115	290	0.0	2.3	-2.3
4	765 kV	SASARAM-FATEHPUR	1	0	337	0.0	5.8	-5.8
5	765 kV	GAYA-BALIA	1	0	748	0.0	12.7	-12.7
6	400 kV	PUSAULI-VARANASI	1	0	230	0.0	4.4	-4.4
7	400 kV	PUSAULI -ALLAHABAD	1	0	196	0.0	3.7	-3.7
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	0	981	0.0	19.1	-19.1
9	400 kV	PATNA-BALIA	2	0	620	0.0	12.6	-12.6
10	400 kV	NAUBATPUR-BALIA	2	0	656	0.0	13.3	-13.3
11	400 kV	BIHARSHARIFF-BALIA	2	0	680	0.0	10.5	-10.5
12	400 kV	MOTIHARI-GORAKHPUR	2	0	210	0.0	9.1	-9.1
13	400 kV	BIHARSHARIFF-VARANASI	2	40	156	0.0	2.1	-2.1
14	220 kV	SAHUPURI-KARAMNASA	1	3	144	0.0	2.0	-2.0
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	122.8	-122.3
Import/Export of ER (With WR)								
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	1004	42	10.7	0.0	10.7
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	1830	0	25.5	0.0	25.5
3	765 kV	JHARSUGUDA-DURG	2	41	247	0.0	2.3	-2.3
4	400 kV	JHARSUGUDA-RAIGARH	4	0	488	0.0	7.7	-7.7
5	400 kV	RANCHI-SIPAT	2	379	75	3.5	0.0	3.5
6	220 kV	BUDHIPADAR-RAIGARH	1	0	129	0.0	2.0	-2.0
7	220 kV	BUDHIPADAR-KORBA	2	37	52	0.0	0.0	0.0
					ER-WR	39.7	11.9	27.8
Import/Export of ER (With SR)								
1	HVDC	JEYPORE-GAZUWAKA B/B	2	0	345	0.0	7.6	-7.6
2	HVDC	TALCHER-KOLAR BIPOLE	2	0	1996	0.0	33.3	-33.3
3	765 kV	ANGUL-SRIKAKULAM	2	0	2452	0.0	34.6	-34.6
4	400 kV	TALCHER-I/C	2	709	169	11.7	0.0	11.7
5	220 kV	BALIMELA-UPPER-SILERRU	1	2	0	0.0	0.0	0.0
					ER-SR	0.0	75.4	-75.4
Import/Export of ER (With NER)								
1	400 kV	BINAGURI-BONGAIGAON	2	89	174	0.2	1.2	-1.0
2	400 kV	ALIPURDUAR-BONGAIGAON	2	165	169	0.0	0.7	-0.7
3	220 kV	ALIPURDUAR-SALAKATI	2	11	65	0.0	0.8	-0.8
					ER-NER	0.2	2.6	-2.4
Import/Export of NER (With NR)								
1	HVDC	BISWANATH CHARIALI-AGRA	2	0	800	0.0	12.3	-12.3
					NER-NR	0.0	12.3	-12.3
Import/Export of WR (With NR)								
1	HVDC	CHAMPA-KURUKSHETRA	2	0	4004	0.0	61.6	-61.6
2	HVDC	VINDHYACHAL B/B	-	271	0	7.3	0.0	7.3
3	HVDC	MUNDRA-MOHINDERGARH	2	0	814	0.0	13.4	-13.4
4	765 kV	GWALIOR-AGRA	2	0	1409	0.1	14.0	-13.9
5	765 kV	GWALIOR-PHAGI	2	0	1925	0.0	33.1	-33.1
6	765 kV	JABALPUR-ORAI	2	0	1121	0.0	40.3	-40.3
7	765 kV	GWALIOR-ORAI	1	529	0	11.4	0.0	11.4
8	765 kV	SATNA-ORAI	1	0	1036	0.0	21.6	-21.6
9	765 kV	BANASKANTHA-CHITORGARH	2	1054	71	12.0	0.0	12.0
10	765 kV	VINDHYACHAL-VARANASI	2	0	3655	0.0	61.9	-61.9
11	400 kV	ZERDA-KANKROLI	1	225	32	2.6	0.0	2.6
12	400 kV	ZERDA -BHINMAL	1	487	60	5.2	0.0	5.2
13	400 kV	VINDHYACHAL -RIHAND	1	961	0	22.0	0.0	22.0
14	400 kV	RAPP-SHUJALPUR	2	65	575	0.0	6.4	-6.4
15	220 kV	BHANPURA-RANPUR	1	0	0	0.0	0.0	0.0
16	220 kV	BHANPURA-MORAK	1	0	30	0.0	2.3	-2.3
17	220 kV	MEHGAON-AURAIYA	1	104	0	0.6	0.0	0.6
18	220 kV	MALANPUR-AURAIYA	1	64	5	1.4	0.0	1.4
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	62.6	254.6	-192.0
Import/Export of WR (With SR)								
1	HVDC	BHADRAWATI B/B	-	984	0	20.2	0.0	20.2
2	HVDC	RAIGARH-PUGALUR	2	2882	0	43.2	0.0	43.2
3	765 kV	SOLAPUR-RAICHUR	2	1724	1373	12.3	3.2	9.1
4	765 kV	WARDHA-NIZAMABAD	2	0	2608	0.0	26.0	-26.0
5	400 kV	KOLHAPUR-KUDGI	2	1453	0	27.4	0.0	27.4
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	96	1.8	0.0	1.8
					WR-SR	104.9	29.3	75.6

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	675	16.2
	ER	400kV TALA-BINAGURI 1,2,4 (& 400kV MALBASE - BINAGURI) i.e. BINAGURI RECEIPT (from TALA HEP (6*170MW)	1042	0	992	23.8
	ER	220kV CHUKHA-BIRPARA 1&2 (& 220kV MALBASE - BIRPARA) i.e. BIRPARA RECEIPT (from CHUKHA HEP 4*84MW)	237	0	195	4.7
	NER	132kV GELEPHU-SALAKATI	18	7	13	0.3
	NER	132kV MOTANGA-RANGIA	33	19	32	0.8
NEPAL	NR	132kV MAHENDRANAGAR-TANAKPUR(NHPC)	0	0	0	-0.5
	ER	NEPAL IMPORT (FROM BIHAR)	-11	0	-1	0.0
	ER	400kV DHALKEBAR-MUZAFFARPUR 1&2	419	258	366	8.8
BANGLADESH	ER	BHERAMARA B/B HVDC (BANGLADESH)	-912	-824	-893	-21.4
	NER	132kV COMILLA-SURAJMANI NAGAR 1&2	-161	0	-161	-3.9