



**National Load Despatch Centre**  
**राष्ट्रीय भार प्रेषण केंद्र**  
**POWER SYSTEM OPERATION CORPORATION LIMITED**  
**पावर 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: 20<sup>th</sup> July 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., डोंगतेह, 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 19.07.2022.**

महोदय/Dear Sir,

आईईजीसी-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 19-जुलाई-2022 की अखिल भारतीय प्रणाली की दैनिक ग्रिड निष्पादन रिपोर्ट रांभांप्रेके की वेबसाइट पर उपलब्ध 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 19<sup>th</sup> July 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-Jul-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)	66556	50005	41794	25890	3178	187423
Peak Shortage (MW)	1993	0	536	1121	0	3650
Energy Met (MU)	1605	1142	957	577	61	4343
Hydro Gen (MU)	364	84	138	118	27	731
Wind Gen (MU)	15	131	124	-	-	271
Solar Gen (MU)*	93.13	26.40	101.15	4.53	0.49	226
Energy Shortage (MU)	21.07	0.00	1.47	9.77	0.05	32.36
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	70354	51529	44661	26617	3229	188698
Time Of Maximum Demand Met (From NLDC SCADA)	12:30	07:49	07:34	20:37	19:14	19:38

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	0.059	1.53	1.18	6.64	9.35	78.32	12.32

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	13213	0	298.5	182.0	-1.2	141	0.00
	Haryana	11012	0	233.4	161.3	0.4	321	3.37
	Rajasthan	11052	0	246.9	65.5	-1.2	261	1.54
	Delhi	6816	0	140.9	130.4	-1.6	200	0.00
	UP	25138	410	539.9	247.5	2.4	536	13.25
	Uttarakhand	2203	50	47.8	26.0	0.4	168	2.55
	HP	1645	48	35.3	-3.9	-0.2	37	0.26
	J&K(UT) & Ladakh(UT)	2613	0	54.1	29.6	-0.9	223	0.10
	Chandigarh	398	0	7.7	7.6	0.1	53	0.00
	Chhattisgarh	3937	0	93.3	39.2	0.3	360	0.00
WR	Gujarat	14640	0	328.3	183.4	-7.4	421	0.00
	MP	9963	0	226.2	72.4	0.0	580	0.00
	Maharashtra	20118	0	438.5	152.4	-2.4	651	0.00
	Goa	594	0	12.0	12.1	-0.1	66	0.00
	DNHDDPDCL	1127	0	26.3	26.3	0.0	45	0.00
	AMNSIL	803	0	17.8	11.1	0.1	101	0.00
SR	Andhra Pradesh	8883	0	187.9	62.0	1.7	584	1.47
	Telangana	9864	0	181.4	68.5	1.2	605	0.00
	Karnataka	9180	0	171.7	53.8	-0.2	791	0.00
	Kerala	3440	0	68.5	33.1	-0.5	249	0.00
	Tamil Nadu	15690	0	338.2	148.7	0.9	785	0.00
	Puducherry	441	0	9.7	9.2	-0.2	41	0.00
ER	Bihar	6734	509	141.9	127.8	1.8	324	4.99
	DVC	3545	0	77.1	-42.9	1.3	306	0.00
	Jharkhand	1505	0	30.3	26.7	-1.6	165	4.78
	Odisha	6111	0	129.5	62.6	0.2	277	0.00
	West Bengal	9688	0	196.6	68.3	1.3	539	0.00
	Sikkim	91	0	1.5	1.5	0.0	18	0.00
NER	Arunachal Pradesh	141	0	2.6	2.8	-0.4	3	0.00
	Assam	2111	0	40.2	33.5	-0.5	84	0.00
	Manipur	190	32	2.7	2.7	0.0	28	0.05
	Meghalaya	326	0	6.2	0.2	0.1	47	0.00
	Mizoram	100	0	1.6	0.9	0.2	24	0.00
	Nagaland	150	0	2.7	2.4	-0.1	11	0.00
	Tripura	298	0	5.5	5.5	0.0	73	0.00

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

	Bhutan	Nepal	Bangladesh
Actual (MU)	28.5	5.7	-23.9
Day Peak (MW)	1371.0	277.8	-1055.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	320.6	-207.2	-14.9	-94.1	-4.4	0.0
Actual(MU)	320.6	-217.5	-12.8	-90.2	-6.7	-6.7
O/D/U/D(MU)	0.0	-10.4	2.1	3.9	-2.3	-6.7

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL	% Share
Central Sector	3785	15196	6138	2415	309	27842	42
State Sector	7490	17369	11565	2590	186	39199	58
Total	11275	32564	17703	5005	494	67041	100

G. Sourcewise generation (MU)

	NR	WR	SR	ER	NER	All India	% Share
Coal	810	1099	456	578	17	2960	65
Lignite	24	8	63	0	0	95	2
Hvdro	367	84	138	118	27	734	16
Nuclear	29	32	68	0	0	129	3
Gas, Naptha & Diesel	19	5	9	0	29	61	1
RES (Wind, Solar, Biomass & Others)	126	158	271	5	0	561	12
Total	1375	1385	1005	701	73	4540	100

Share of RES in total generation (%)	9.20	11.42	27.00	0.65	0.67	12.36
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	37.99	19.79	47.45	17.49	37.84	31.36

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.041
Based on State Max Demands	1.080

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)

Sl No	Voltage Level	Line Details	No. of Circuit	Max Import (MW)	Max Export (MW)	Date of Reporting:		NET (MU)	
						Import (MU)	Export (MU)		
Date of Reporting: 20-Jul-2022									
Import/Export of ER (With NR)									
1	HVDC	ALIPURDUAR-AGRA	2	0	501	0.0	12.1	-12.1	
2	HVDC	PUSAULI B/B	-	0	49	0.0	1.2	-1.2	
3	765 kV	GAYA-VARANASI	2	262	194	0.0	0.1	-0.1	
4	765 kV	SASARAM-FATEHPUR	1	0	243	0.0	3.0	-3.0	
5	765 kV	GAYA-BALIA	1	0	748	0.0	13.6	-13.6	
6	400 kV	PUSAULI-VARANASI	1	27	43	0.0	0.3	-0.3	
7	400 kV	PUSAULI-ALLAHABAD	1	0	88	0.0	0.9	-0.9	
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	0	924	0.0	15.2	-15.2	
9	400 kV	PATNA-BALIA	2	0	636	0.0	12.3	-12.3	
10	400 kV	NAUBATPUR-BALIA	2	0	662	0.0	13.2	-13.2	
11	400 kV	BIHARSHARIFF-BALIA	2	0	458	0.0	6.9	-6.9	
12	400 kV	MOTIHARI-GORAKHPUR	2	0	510	0.0	8.3	-8.3	
13	400 kV	BIHARSHARIFF-VARANASI	2	80	184	0.0	1.1	-1.1	
14	220 kV	SINPUR-BIKRAMNASHA	1	0	156	0.0	2.3	-2.3	
15	132 kV	NAGAR UNTARI-RIHAND	1	0	0	0.0	0.0	0.0	
16	132 kV	GARWAH-RIHAND	1	25	0	0.3	0.0	0.3	
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	0.3	90.5	-90.1
Import/Export of ER (With WR)									
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	629	0	20.5	0.0	20.5	
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	1224	436	18.6	0.0	18.6	
3	765 kV	JHARSUGUDA-DURG	2	0	314	0.0	2.9	-2.9	
4	400 kV	JHARSUGUDA-RAIGARH	4	0	312	0.7	0.0	0.7	
5	400 kV	RANCHI-SIPAT	2	278	167	3.4	0.0	3.4	
6	220 kV	BUDHIPADAR-RAIGARH	1	32	72	0.0	0.4	-0.4	
7	220 kV	BUDHIPADAR-KORBA	2	154	0	2.1	0.0	2.1	
						ER-WR	45.3	3.3	42.0
Import/Export of ER (With SR)									
1	HVDC	JEYPORE-GAZUWAKA B/B	2	584	0	14.4	0.0	14.4	
2	HVDC	TALCHER-KOLAR BIPOLE	2	0	1995	0.0	38.3	-38.3	
3	765 kV	ANGUL-SRIKAKULAM	2	0	3550	0.0	54.0	-54.0	
4	400 kV	TALCHER-I/C	2	709	146	6.7	0.0	6.7	
5	220 kV	BALMELA-UPPER-SILERRU	1	2	0	0.0	0.0	0.0	
						ER-SR	14.4	92.3	-77.8
Import/Export of ER (With NER)									
1	400 kV	BINAGURI-BONGAIGAON	2	0	241	0.0	3.5	-3.5	
2	400 kV	ALIPURDUAR-BONGAIGAON	2	0	327	0.0	4.5	-4.5	
3	220 kV	ALIPURDUAR-SALAKATI	2	0	85	0.0	1.4	-1.4	
						ER-NER	0.0	9.4	-9.4
Import/Export of NER (With NR)									
1	HVDC	BISWANATH CHARIALI-AGRA	2	0	706	0.0	16.8	-16.8	
						NER-NR	0.0	16.8	-16.8
Import/Export of WR (With NR)									
1	HVDC	CHAMPA-KURUKSHETRA	2	0	5038	0.0	87.6	-87.6	
2	HVDC	VINDHYACHAL B/B	-	442	0	6.7	0.0	6.7	
3	HVDC	MUNDRA-MOHENDERGARH	2	0	813	0.0	18.7	-18.7	
4	765 kV	GWALIOR-AGRA	2	212	2117	0.1	30.5	-30.4	
5	765 kV	GWALIOR-PHAGI	2	0	1456	0.0	19.0	-19.0	
6	765 kV	JABALPUR-ORAI	2	0	1044	0.0	29.9	-29.9	
7	765 kV	GWALIOR-ORAI	1	534	0	10.3	0.0	10.3	
8	765 kV	SATNA-ORAI	1	0	1097	0.0	21.4	-21.4	
9	765 kV	BANASKANTHA-CHITORGARH	2	1573	48	14.9	0.0	14.9	
10	765 kV	VINDHYACHAL-VARANASI	2	0	3738	0.0	68.4	-68.4	
11	400 kV	ZERDA-KANKROLI	1	342	37	3.5	0.0	3.5	
12	400 kV	ZERDA-JBHINMAL	1	590	69	6.0	0.0	6.0	
13	400 kV	VINDHYACHAL-RIHAND	1	966	0	21.8	0.0	21.8	
14	400 kV	RAPP-SHULIAPUR	2	210	641	0.7	5.7	-5.0	
15	220 kV	BHANPURA-RANPUR	1	0	0	0.0	0.0	0.0	
16	220 kV	BHANPURA-MORAK	1	0	30	0.0	2.7	-2.7	
17	220 kV	MEHGAON-AURAIYA	1	115	0	0.7	0.0	0.7	
18	220 kV	MALANPUR-AURAIYA	1	75	0	1.5	0.0	1.5	
19	132 kV	GWALIOR-SAWAIMADHOPUR	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	66.2	283.8	-217.6
Import/Export of WR (With SR)									
1	HVDC	BHADRAWATI B/B	-	987	0	24.0	0.0	24.0	
2	HVDC	RAIGARH-PUGALUR	2	2874	0	53.8	0.0	53.8	
3	765 kV	SOLAPUR-RAICHUR	2	492	2826	0.3	17.2	-16.9	
4	765 kV	WARDHA-NIZAMABAD	2	0	3777	0.0	46.8	-46.8	
5	400 kV	WARDHA-KUDCI	2	1475	0	26.2	0.0	26.2	
6	220 kV	KOLHAPUR-CHIKODI	1	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	97	1.8	0.0	1.8	
						WR-SR	106.0	64.0	42.0
INTERNATIONAL EXCHANGES									
State	Region	Line Name	Max (MW)	Min (MW)	Avg (MW)	Import(+ve)/Export(-ve) Energy Exchange (MU)			
BHUTAN	ER	400kV MANGDECHHU-ALIPURDUAR 1,2&3 i.e. ALIPURDUAR RECEIPT (from MANGDECHHU HEP 4*180MW)	533	398	453	10.9			
	ER	400kV TALA-BINAGURI 1,2,3 (& 400kV MALBASE - BINAGURI) i.e. BINAGURI RECEIPT (from TALA HEP (6*170MW))	655	575	622	14.9			
	ER	220kV CHUKHA-BIRPARA 1&2 (& 220kV MALBASE - BIRPARA) i.e. BIRPARA RECEIPT (from CHUKHA HEP 4*84MW)	175	149	150	3.6			
	NER	132kV GELEPHU-SALAKATI	20	5	10	0.2			
	NER	132kV MOTANGA-RANGIA	45	0	30	0.7			
NEPAL	NR	132kV MAHENDRANAGAR-TANAKPUR(NHPC)	0	0	0	-1.3			
	ER	NEPAL IMPORT (FROM BIHAR)	-21	0	-5	-0.1			
BANGLADESH	ER	400kV DHALKEBAR-MUZAFFARPUR 1&2	378	170	294	7.1			
	NER	BHERAMARA B/B HVDC (BANGLADESH)	-927	-875	-901	-21.6			
	NER	132kV COMILLA-SURAJMANJANAGAR 1&2	-128	0	-95	-2.3			