



**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: 15<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 14.07.2022.**

महोदय/Dear Sir,

आईईजीसी-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 14-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 14<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:

15-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)	60370	48577	39821	24991	3199	176958
Peak Shortage (MW)	0	0	0	544	12	556
Energy Met (MU)	1505	1097	874	551	64	4090
Hydro Gen (MU)	360	39	117	122	32	670
Wind Gen (MU)	24	95	289	-	-	408
Solar Gen (MU)*	90.38	31.11	79.65	4.43	0.81	206
Energy Shortage (MU)	1.55	0.00	0.00	4.34	0.01	5.90
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	71006	48590	40806	25020	3213	177936
Time Of Maximum Demand Met (From NLDC SCADA)	00:03	19:43	19:27	20:47	20:24	10:59

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	0.067	0.59	1.74	9.14	11.47	65.73	22.80

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	12926	0	269.9	168.9	-5.6	261	0.00
	Haryana	10608	0	218.0	161.8	-0.8	196	0.00
	Rajasthan	11631	0	243.0	67.7	-3.6	313	0.20
	Delhi	6173	0	133.0	120.6	-0.5	205	0.32
	UP	25389	0	506.0	249.3	-1.8	263	0.00
	Uttarakhand	2265	0	49.0	28.8	0.4	178	0.70
	HP	1603	0	30.4	-4.5	-0.4	78	0.33
	J&K(UT) & Ladakh(UT)	1799	0	48.7	28.0	-4.9	197	0.00
	Chandigarh	343	0	6.5	6.7	-0.2	38	0.00
	Chhattisgarh	3842	0	91.9	36.2	-0.4	154	0.00
WR	Gujarat	14298	0	323.3	202.5	5.0	1076	0.00
	MP	9326	0	211.4	110.7	0.0	424	0.00
	Maharashtra	19174	0	414.9	115.8	-0.7	881	0.00
	Goa	546	0	11.5	11.6	-0.2	28	0.00
	DNHDDPDCL	1139	0	26.5	26.5	0.0	42	0.00
	AMNSIL	834	0	17.4	11.4	-0.2	269	0.00
SR	Andhra Pradesh	8102	0	172.2	0.0	-0.3	741	0.00
	Telangana	6696	0	134.0	52.3	0.3	480	0.00
	Karnataka	8075	0	155.4	12.8	-2.2	541	0.00
	Kerala	3383	0	66.9	37.4	0.3	215	0.00
	Tamil Nadu	15641	0	335.4	125.9	0.2	1207	0.00
	Puducherry	428	0	9.8	9.3	-0.2	33	0.00
ER	Bihar	6425	0	131.2	119.7	-0.6	152	3.39
	DVC	3545	0	77.2	-35.5	-0.2	383	0.00
	Jharkhand	1574	0	32.1	24.4	-0.5	171	0.95
	Odisha	5315	0	116.2	46.0	1.3	326	0.00
	West Bengal	9167	0	192.9	77.5	1.6	417	0.00
NER	Sikkim	87	0	1.4	1.4	-0.1	14	0.00
	Arunachal Pradesh	149	0	2.6	2.8	-0.5	22	0.00
	Assam	2171	0	42.7	35.1	-0.3	84	0.00
	Manipur	206	0	2.7	2.8	0.0	22	0.00
	Meghalaya	318	0	5.8	0.3	0.0	77	0.00
	Mizoram	98	0	1.9	1.1	0.0	32	0.00
	Nagaland	148	0	2.7	2.6	-0.4	11	0.00
	Tripura	267	0	5.3	6.0	0.4	78	0.01

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

	Bhutan	Nepal	Bangladesh
Actual (MU)	36.4	5.0	-19.2
Day Peak (MW)	1799.0	272.8	-862.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	318.4	-126.0	-76.2	-109.4	-6.8	0.0
Actual(MU)	304.2	-108.2	-93.8	-96.5	-7.8	-2.1
O/D/U/D(MU)	-14.2	17.9	-17.7	12.9	-1.0	-2.1

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL	% Share
Central Sector	4115	16266	8248	3355	309	32292	43
State Sector	8640	17524	13165	2470	302	42100	57
Total	12755	33789	21413	5825	611	74392	100

G. Sourcewise generation (MU)

	NR	WR	SR	ER	NER	All India	% Share
Coal	702	1042	344	555	15	2658	62
Lignite	27	5	55	0	0	87	2
Hydro	365	39	117	122	32	675	16
Nuclear	29	21	67	0	0	116	3
Gas, Naptha & Diesel	17	3	8	0	28	56	1
RES (Wind, Solar, Biomass & Others)	131	126	407	4	1	670	16
Total	1271	1236	998	681	77	4263	100

Share of RES in total generation (%)	7.64	10.22	40.80	0.65	1.05	14.98
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	39.61	15.01	59.23	18.51	43.34	33.71

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.057
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: 15-Jul-2022

Sl No	Voltage Level	Line Details	No. of Circuit	Max Import (MW)	Max Export (MW)	Import (MU)	Export (MU)	NET (MU)	
<b>Import/Export of ER (With NR)</b>									
1	HVDC	ALIPURDUAR-AGRA	2	0	1401	0.0	32.8	-32.8	
2	HVDC	PUSAULI B/B	2	0	49	0.0	1.3	-1.3	
3	765 kV	GAYA-VARANASI	2	518	344	0.0	0.7	-0.7	
4	765 kV	SASARAM-FATEHPUR	1	47	344	0.0	3.9	-3.9	
5	765 kV	GAYA-BALIA	1	0	754	0.0	12.0	-12.0	
6	400 kV	PUSAULI-VARANASI	1	38	53	0.0	0.2	-0.2	
7	400 kV	PUSAULI-ALLAHABAD	1	0	98	0.0	0.5	-0.5	
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	0	827	0.0	12.9	-12.9	
9	400 kV	PATNA-BALIA	2	0	588	0.0	10.8	-10.8	
10	400 kV	NAUBATPUR-BALIA	2	0	622	0.0	10.8	-10.8	
11	400 kV	BIHARSHARIFF-BALIA	2	95	402	0.0	5.0	-5.0	
12	400 kV	MOTIHARI-GORAKHPUR	2	0	487	0.0	7.2	-7.2	
13	400 kV	BIHARSHARIFF-VARANASI	2	163	241	0.0	1.4	-1.4	
14	220 kV	SINPUR-BIKRAMNASHA	1	8	160	0.0	2.2	-2.2	
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	101.8	-101.5
<b>Import/Export of ER (With WR)</b>									
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	629	0	4.9	0.0	4.9	
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	1490	0	23.5	0.0	23.5	
3	765 kV	JHARSUGUDA-DURG	2	0	314	0.0	4.3	-4.3	
4	400 kV	JHARSUGUDA-RAIGARH	4	0	312	0.0	3.4	-3.4	
5	400 kV	RANCHI-SIPAT	2	277	106	3.4	0.0	3.4	
6	220 kV	BUDHIPADAR-RAIGARH	1	23	101	0.0	1.1	-1.1	
7	220 kV	BUDHIPADAR-KORBA	2	173	2	1.8	0.0	1.8	
						ER-WR	33.6	8.7	24.9
<b>Import/Export of ER (With SR)</b>									
1	HVDC	JEYPORE-GAZUWAKA B/B	2	586	0	14.4	0.0	14.4	
2	HVDC	TALCHER-KOLAR BIPOLE	2	0	1635	0.0	27.9	-27.9	
3	765 kV	ANGUL-SRIKAKULAM	2	0	2765	0.0	40.9	-40.9	
4	400 kV	TALCHER-I/C	2	1126	207	14.4	0.0	14.4	
5	220 kV	BALMELA-UPPER-SILERRU	1	2	0	0.0	0.0	0.0	
						ER-SR	14.4	68.8	-54.3
<b>Import/Export of ER (With NER)</b>									
1	400 kV	BINAGURI-BONGAIGAON	2	0	415	0.0	6.1	-6.1	
2	400 kV	ALIPURDUAR-BONGAIGAON	2	179	295	0.0	1.0	-1.0	
3	220 kV	ALIPURDUAR-SALAKATI	2	0	88	0.0	0.9	-0.9	
						ER-NER	0.0	8.1	-8.1
<b>Import/Export of NER (With NR)</b>									
1	HVDC	BISWANATH CHARIALI-AGRA	2	0	743	0.0	16.9	-16.9	
						NER-NR	0.0	16.9	-16.9
<b>Import/Export of WR (With NR)</b>									
1	HVDC	CHAMPA-KURUKSHETRA	2	0	4006	0.0	74.2	-74.2	
2	HVDC	VINDHYACHAL B/B	2	445	0	12.1	0.0	12.1	
3	HVDC	MUNDRA-MOHENDERGARH	2	0	1015	0.0	14.2	-14.2	
4	765 kV	GWALIOR-AGRA	2	0	2064	0.0	29.0	-29.0	
5	765 kV	GWALIOR-PHAGI	2	97	1619	0.0	22.9	-22.9	
6	765 kV	JABALPUR-ORAI	2	0	1094	0.0	33.3	-33.3	
7	765 kV	GWALIOR-ORAI	1	572	0	9.7	0.0	9.7	
8	765 kV	SATNA-ORAI	1	0	988	0.0	21.8	-21.8	
9	765 kV	BANASKANTHA-CHITORGARH	2	1547	0	21.0	0.0	21.0	
10	765 kV	VINDHYACHAL-VARANASI	2	0	3663	0.0	65.7	-65.7	
11	400 kV	ZERDA-KANKROLI	1	349	68	4.3	0.0	4.3	
12	400 kV	ZERDA-JBHINMAL	1	590	0	8.3	0.0	8.3	
13	400 kV	VINDHYACHAL-RIHAND	1	951	0	21.5	0.0	21.5	
14	400 kV	RAPP-SHULIAPUR	2	244	597	1.0	4.5	-3.5	
15	220 kV	BHANUPUR-RANPUR	1	0	0	0.0	0.0	0.0	
16	220 kV	BHANUPUR-MORAK	1	0	30	0.0	2.3	-2.3	
17	220 kV	MEHGAON-AURAIYA	1	71	0	0.5	0.0	0.5	
18	220 kV	MALANPUR-AURAIYA	1	67	10	1.3	0.0	1.3	
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	79.8	267.9	-188.1
<b>Import/Export of WR (With SR)</b>									
1	HVDC	BHADRAWATI B/B	-	984	0	24.0	0.0	24.0	
2	HVDC	RAIGARH-PUGALUR	2	2891	0	68.9	0.0	68.9	
3	765 kV	SOLAPUR-RAICHUR	2	1734	1433	14.3	6.2	8.2	
4	765 kV	WARDHA-NIZAMABAD	2	0	2465	0.0	26.4	-26.4	
5	400 kV	KOLHAPUR-KUDCI	2	1619	0	28.3	0.0	28.3	
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	106	1.9	0.0	1.9	
						WR-SR	137.3	32.5	104.8
<b>INTERNATIONAL EXCHANGES</b>									
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)	542	0	469	11.3			
	ER	400KV TALA-BINAGURI 1,2,3 (& 400KV MALBASE - BINAGURI) i.e. BINAGURI RECEIPT (from TALA HEP (6*170MW))	1115	0	998	24.0			
	ER	220KV CHUKHA-BIRPARA 1&2 (& 220KV MALBASE - BIRPARA) i.e. BIRPARA RECEIPT (from CHUKHA HEP 4*84MW)	119	0	96	2.3			
	NER	132KV GELEPHU-SALAKATI	21	1	7	0.2			
NEPAL	NER	132KV MOTANGA-RANGIA	47	4	37	0.9			
	NR	132KV MAHENDRANAGAR-TANAKPUR(NHPC)	-73	0	-56	-1.4			
BANGLADESH	ER	400KV DHALKEBAR-MUZAFFARPUR 1&2	354	172	273	6.6			
	NER	BHERAMARA B/B HVDC (BANGLADESH)	-776	-496	-722	-17.3			
	NER	132KV COMILLA-SURAJMANJANAGAR 1&2	-86	0	-77	-1.8			