



**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

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Ref: POSOCO/NLDC/SO/Daily PSP Report

दिनांक: 31<sup>th</sup> July 2021

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 30.07.2021.**

महोदय/Dear Sir,

आईईजीसी-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 30-जुलाई-2021 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 30<sup>th</sup> July 2021, 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:

31-Jul-2021

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)	54113	45877	40842	20600	2888	164320
Peak Shortage (MW)	200	0	0	0	0	200
Energy Met (MU)	1169	1063	1022	419	56	3729
Hydro Gen (MU)	365	23	164	126	27	705
Wind Gen (MU)	35	253	226	-	-	513
Solar Gen (MU)*	43.00	16.22	91.97	3.91	0.13	155
Energy Shortage (MU)	3.51	0.00	0.00	0.00	0.04	3.55
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	55816	47480	48669	20601	2927	166303
Time Of Maximum Demand Met (From NLDC SCADA)	20:57	09:38	10:33	20:01	19:26	10:34

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	0.021	0.00	0.00	0.42	0.42	84.42	15.16

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	9521	0	197.0	161.3	-8.5	172	0.00
	Haryana	7102	0	151.4	132.2	-0.2	230	0.00
	Rajasthan	9978	0	219.4	68.3	-3.2	356	0.00
	Delhi	4904	0	101.9	90.9	-2.6	9	0.00
	UP	19428	0	375.8	191.5	0.8	428	0.06
	Uttarakhand	2057	0	43.5	16.4	0.6	204	0.00
	HP	1482	0	30.0	-7.2	-4.2	0	0.00
	J&K(UT) & Ladakh(UT)	2288	250	44.2	19.8	-0.1	237	3.45
	Chandigarh	285	0	5.6	6.0	-0.5	14	0.00
WR	Chhattisgarh	3413	0	78.5	34.3	-0.4	180	0.00
	Gujarat	14153	0	316.7	120.6	1.0	862	0.00
	MP	8781	0	188.5	86.6	-1.2	633	0.00
	Maharashtra	19833	0	421.2	136.3	-2.1	702	0.00
	Goa	585	0	12.3	11.3	0.4	35	0.00
	DD	332	0	7.4	6.9	0.4	47	0.00
	DNH	837	0	19.5	19.5	0.0	33	0.00
	AMNSIL	837	0	19.0	7.1	-0.2	279	0.00
	SR	Andhra Pradesh	9509	0	196.3	40.6	-0.7	542
Telangana		11432	0	218.6	94.5	0.5	873	0.00
Karnataka		9897	0	182.1	12.9	-0.4	727	0.00
Kerala		3351	0	70.6	29.0	-1.4	178	0.00
Tamil Nadu		15115	0	345.4	143.4	0.0	719	0.00
Puducherry		427	0	9.1	9.2	-0.1	37	0.00
ER		Bihar	5813	0	104.2	103.3	-0.2	438
	DVC	2825	0	55.8	-29.7	-1.2	240	0.00
	Jharkhand	1677	0	19.8	18.2	-3.4	198	0.00
	Odisha	5215	0	103.1	40.7	-0.7	353	0.00
	West Bengal	7633	0	134.5	43.0	0.7	580	0.00
	Sikkim	80	0	1.2	1.6	-0.3	9	0.00
NER	Arunachal Pradesh	137	0	2.2	2.4	-0.2	51	0.01
	Assam	1925	0	36.8	29.0	1.0	113	0.00
	Manipur	181	0	2.7	2.6	0.1	26	0.01
	Meghalaya	313	0	5.5	2.5	0.0	130	0.00
	Mizoram	106	0	1.5	1.5	-0.1	26	0.01
	Nagaland	130	0	2.7	2.2	0.0	21	0.01
	Tripura	248	0	4.4	4.4	-0.5	19	0.00

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

	Bhutan	Nepal	Bangladesh
Actual (MU)	42.6	-3.4	-19.4
Day Peak (MW)	1956.0	-322.5	-840.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	301.1	-236.8	33.4	-94.4	-3.2	0.0
Actual(MU)	272.3	-226.0	43.0	-89.8	-4.3	-4.7
O/D/U/D(MU)	-28.8	10.9	9.7	4.6	-1.1	-4.7

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL	% Share
Central Sector	8402	18923	10052	1155	689	39220	42
State Sector	12975	23485	11208	5455	47	53169	58
Total	21377	42407	21260	6610	735	92389	100

G. Sourcewise generation (MU)

	NR	WR	SR	ER	NER	All India	% Share
Coal	398	928	399	405	9	2139	56
Lignite	25	12	34	0	0	70	2
Hydro	365	23	164	126	27	705	18
Nuclear	26	33	42	0	0	101	3
Gas, Naptha & Diesel	21	33	11	0	28	93	2
RES (Wind, Solar, Biomass & Others)	101	269	344	4	0	718	19
Total	936	1298	992	535	65	3826	100

Share of RES in total generation (%)	10.76	20.73	34.64	0.73	0.20	18.75
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	52.55	25.03	55.34	24.35	42.63	39.83

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.055
Based on State Max Demands	1.093

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: 31-Jul-2021

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	1006	0.0	23.9	-23.9	
2	HVDC	PUSAULI B/B	-	0	247	0.0	5.7	-5.7	
3	765 kV	GAYA-VARANASI	2	154	583	0.0	4.6	-4.6	
4	765 kV	SASARAM-FATEHPUR	1	268	88	1.6	0.0	1.6	
5	765 kV	GAYA-BALIA	1	0	521	0.0	7.7	-7.7	
6	400 kV	PUSAULI-VARANASI	1	0	253	0.0	4.4	-4.4	
7	400 kV	PUSAULI-ALLAHABAD	1	0	138	0.0	1.4	-1.4	
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	0	610	0.0	10.0	-10.0	
9	400 kV	PATNA-BALIA	4	0	877	0.0	14.3	-14.3	
10	400 kV	BIHARSHARIFF-BALIA	2	0	295	0.0	3.6	-3.6	
11	400 kV	MOTIHARI-GORAKHPUR	2	0	356	0.0	5.8	-5.8	
12	400 kV	BIHARSHARIFF-VARANASI	2	77	172	0.0	0.5	-0.5	
13	220 kV	PUSAULI-SAHUPURI	1	0	133	0.0	2.3	-2.3	
14	132 kV	SONE NAGAR-RIHAND	1	0	0	0.0	0.0	0.0	
15	132 kV	GARWAH-RIHAND	1	20	0	0.4	0.0	0.4	
16	132 kV	KARMANASA-SAHUPURI	1	0	0	0.0	0.0	0.0	
17	132 kV	KARMANASA-CHANDAULI	1	0	0	0.0	0.0	0.0	
						ER-NR	2.0	84.3	-82.3
<b>Import/Export of ER (With WR)</b>									
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	1481	151	17.4	0.0	17.4	
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	1583	0	21.0	0.0	21.0	
3	765 kV	JHARSUGUDA-DURG	2	274	0	3.5	0.0	3.5	
4	400 kV	JHARSUGUDA-RAIGARH	4	243	300	1.3	0.0	1.3	
5	400 kV	RANCHI-SIPAT	2	447	41	5.7	0.0	5.7	
6	220 kV	BUDHIPADAR-RAIGARH	1	28	231	0.0	0.6	-0.6	
7	220 kV	BUDHIPADAR-KORBA	2	176	0	2.4	0.0	2.4	
						ER-WR	51.3	0.6	50.7
<b>Import/Export of ER (With SR)</b>									
1	HVDC	JEYPORE-GAZUWAKA B/B	2	0	455	0.0	10.1	-10.1	
2	HVDC	TALCHER-KOLAR BIPOLE	2	0	1639	0.0	31.2	-31.2	
3	765 kV	ANGUL-SRIKAKULAM	2	0	2687	0.0	37.8	-37.8	
4	400 kV	TALCHER-I/C	2	277	860	0.0	5.9	-5.9	
5	220 kV	BALIMELA-UPPER-SILERRU	1	1	20	0.0	0.0	0.0	
						ER-SR	0.0	79.1	-79.1
<b>Import/Export of ER (With NER)</b>									
1	400 kV	BINAGURI-BONGAIGAON	2	0	291	0.0	4.1	-4.1	
2	400 kV	ALIPURDUAR-BONGAIGAON	2	55	318	0.0	2.9	-2.9	
3	220 kV	ALIPURDUAR-SALAKATI	2	0	107	0.0	1.6	-1.6	
						ER-NER	0.0	8.5	-8.5
<b>Import/Export of NER (With NR)</b>									
1	HVDC	BISWANATH CHARIALI-AGRA	2	0	704	0.0	14.2	-14.2	
						NER-NR	0.0	14.2	-14.2
<b>Import/Export of WR (With NR)</b>									
1	HVDC	CHAMPA-KURUKSHETRA	2	0	4040	0.0	52.5	-52.5	
2	HVDC	VINDHYACHAL B/B	-	0	254	0.0	1.8	-1.8	
3	HVDC	MUNDRA-MOHINDERGARH	2	0	1451	0.0	27.4	-27.4	
4	765 kV	GWALIOR-AGRA	2	0	2507	0.0	39.0	-39.0	
5	765 kV	GWALIOR-PHAGI	2	0	910	0.0	16.2	-16.2	
6	765 kV	JABALPUR-ORAI	2	0	729	0.0	26.8	-26.8	
7	765 kV	GWALIOR-ORAI	1	505	0	9.8	0.0	9.8	
8	765 kV	SATNA-ORAI	1	0	1145	0.0	22.4	-22.4	
9	765 kV	BANASKANTHA-CHITORGARH	2	66	831	0.0	11.4	-11.4	
10	765 kV	VINDHYACHAL-VARANASI	2	0	2978	0.0	13.2	-13.2	
11	400 kV	ZERDA-KANKROLI	1	121	64	0.4	0.0	0.4	
12	400 kV	ZERDA -BHINMAL	1	261	42	2.5	0.0	2.5	
13	400 kV	VINDHYACHAL -RIHAND	1	980	0	22.5	0.0	22.5	
14	400 kV	RAPP-SHUJALPUR	2	15	326	0.0	3.8	-3.8	
15	220 kV	BHANPURA-RANPUR	1	0	124	0.0	2.3	-2.3	
16	220 kV	BHANPURA-MORAK	1	0	30	0.0	2.0	-2.0	
17	220 kV	MEHGAON-AURAIYA	1	97	26	0.2	0.2	0.0	
18	220 kV	MALANPUR-AURAIYA	1	73	40	0.5	0.1	0.3	
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	35.9	219.0	-183.2
<b>Import/Export of WR (With SR)</b>									
1	HVDC	BHADRAWATI B/B	-	300	0	7.4	0.0	7.4	
2	HVDC	RAIGARH-PUGALUR	2	967	0	13.7	0.0	13.7	
3	765 kV	SOLAPUR-RAICHUR	2	1401	1384	3.5	0.0	3.5	
4	765 kV	WARDHA-NIZAMABAD	2	0	2951	0.0	34.6	-34.6	
5	400 kV	KOLHAPUR-KUDGI	2	1269	0	17.8	0.0	17.8	
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	79	1.6	0.0	1.6	
						WR-SR	43.9	34.6	9.3
<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)	647	0	630	15.1			
	ER	400kV TALA-BINAGURI 1,2,4 (& 400kV MALBASE - BINAGURI) i.e. BINAGURI RECEIPT (from TALA HEP (6*170MW)	913	796	811	19.5			
	ER	220kV CHUKHA-BIRPARA 1&2 (& 220kV MALBASE - BIRPARA) i.e. BIRPARA RECEIPT (from CHUKHA HEP 4*84MW)	311	260	264	6.3			
	NER	132kV GELEPHU-SALAKATI	27	19	23	0.6			
	NER	132kV MOTANGA-RANGIA	58	26	45	1.1			
NEPAL	NR	132kV MAHENDRANAGAR-TANAKPUR(NHPC)	-58	0	-40	-1.0			
	ER	NEPAL IMPORT (FROM BIHAR)	-162	-8	-48	-1.1			
	ER	400kV DHALKEBAR-MUZAFFARPUR 1&2	-102	0	-53	-1.3			
BANGLADESH	ER	BHERAMARA B/B HVDC (BANGLADESH)	-719	-699	-706	-17.0			
	NER	132kV COMILLA-SURAJMANI NAGAR 1&2	-121	0	-101	-2.4			