



**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: 15<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 14.07.2021.**

महोदय/Dear Sir,

आईईजीसी-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 14-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 14<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: 15-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)	59856	49660	37930	23712	2983	174141
Peak Shortage (MW)	200	0	0	181	0	381
Energy Met (MU)	1389	1157	860	516	55	3977
Hydro Gen (MU)	357	31	89	138	30	644
Wind Gen (MU)	5	61	180	-	-	246
Solar Gen (MU)*	50.76	33.56	62.13	4.84	0.17	151
Energy Shortage (MU)	3.46	0.00	0.00	0.54	0.00	4.00
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	63481	49746	40517	23771	3008	174205
Time Of Maximum Demand Met (From NLDC SCADA)	00:00	10:51	09:28	20:01	19:17	11:21

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	0.033	0.00	0.00	1.33	1.33	72.38	26.29

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	11587	0	258.7	173.0	-0.6	193	0.00
	Haryana	8912	0	185.4	154.5	-5.2	361	0.00
	Rajasthan	12015	0	247.8	77.2	0.6	616	0.00
	Delhi	5312	0	108.3	100.2	-2.6	119	0.00
	UP	23288	0	466.6	224.8	-0.2	1127	0.01
	Uttarakhand	1956	0	44.3	14.7	0.0	182	0.00
	HP	1492	0	28.7	-4.4	-4.0	0	0.00
	J&K(UT) & Ladakh(UT)	2289	250	42.6	18.1	-0.6	105	3.45
WR	Chandigarh	290	0	6.1	6.4	-0.4	30	0.00
	Chhattisgarh	4303	0	104.3	51.6	1.4	353	0.00
	Gujarat	15071	0	333.3	162.4	5.1	821	0.00
	MP	10475	0	238.6	152.8	1.7	1168	0.00
	Maharashtra	19526	0	424.1	129.2	-2.5	577	0.00
	Goa	526	0	10.9	10.0	0.3	69	0.00
	DD	351	0	7.6	7.4	0.2	28	0.00
	DNH	840	0	19.4	19.1	0.2	52	0.00
SR	AMNSIL	871	0	19.2	5.6	0.4	310	0.00
	Andhra Pradesh	7550	0	159.7	37.7	0.2	934	0.00
	Telangana	8024	0	159.1	55.3	-0.2	411	0.00
	Karnataka	8231	0	160.3	1.1	-0.6	723	0.00
	Kerala	2897	0	63.4	32.4	0.5	282	0.00
	Tamil Nadu	14559	0	309.0	133.4	-0.7	775	0.00
	Puducherry	379	0	8.4	8.6	-0.2	29	0.00
	Bihar	6395	0	132.0	123.5	0.8	234	0.00
ER	DVC	3090	0	65.4	-36.3	-0.8	312	0.00
	Jharkhand	1430	0	29.1	23.6	-2.0	234	0.54
	Odisha	5465	0	114.7	39.1	0.7	276	0.00
	West Bengal	8370	0	173.0	51.5	1.6	526	0.00
	Sikkim	104	0	1.7	1.4	0.3	41	0.00
	NER	Assam	131	0	2.3	2.5	-0.2	13
Manipur		1932	0	35.0	28.5	-0.2	111	0.00
Mizoram		188	1	2.5	2.7	-0.1	13	0.00
Meghalaya		309	0	5.7	1.5	-0.2	27	0.00
Mizoram		105	1	1.6	1.4	0.1	16	0.00
Nagaland		141	1	2.4	2.3	-0.1	11	0.00
Tripura		286	0	5.2	5.5	0.6	118	0.00

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

	Bhutan	Nepal	Bangladesh
Actual (MU)	48.2	-8.0	-22.9
Day Peak (MW)	2075.0	-475.2	-972.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	315.4	-175.8	-44.4	-92.5	-2.7	0.0
Actual(MU)	300.8	-151.4	-46.7	-103.3	-2.6	-3.2
OD/UD(MU)	-14.6	24.4	-2.3	-10.7	0.0	-3.2

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL	% Share
Central Sector	5122	15503	8982	1916	622	32145	46
State Sector	8250	18168	8418	3565	77	38478	54
Total	13372	33671	17400	5481	698	70622	100

G. Sourcewise generation (MU)

	NR	WR	SR	ER	NER	All India	% Share
Coal	606	1124	458	503	11	2701	66
Lignite	26	10	43	0	0	79	2
Hydro	357	31	89	138	30	644	16
Nuclear	25	32	42	0	0	99	2
Gas, Naptha & Diesel	25	33	11	0	23	91	2
RES (Wind, Solar, Biomass & Others)	75	95	274	5	0	449	11
Total	1114	1324	916	646	63	4063	100

	NR	WR	SR	ER	NER	TOTAL
Share of RES in total generation (%)	6.76	7.15	29.87	0.75	0.27	11.04
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	41.10	11.89	44.10	22.09	47.04	29.33

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.036
Based on State Max Demands	1.083

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-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	1507	0.0	32.9	-32.9	
2	HVDC	PUSAULI B/B	-	0	247	0.0	5.8	-5.8	
3	765 kV	GAYA-VARANASI	2	0	627	0.0	9.6	-9.6	
4	765 kV	SASARAM-FATEHPUR	1	159	103	0.0	0.0	0.9	
5	765 kV	GAYA-BALIA	1	0	594	0.0	10.7	-10.7	
6	400 kV	PUSAULI-VARANASI	1	0	230	0.0	4.9	-4.9	
7	400 kV	PUSAULI-ALLAHABAD	1	0	77	0.0	0.9	-0.9	
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	0	543	0.0	9.2	-9.2	
9	400 kV	PATNA-BALIA	4	0	1058	0.0	17.5	-17.5	
10	400 kV	BIHARSHARIFF-BALIA	2	0	324	0.0	5.7	-5.7	
11	400 kV	MOTIHARI-GORAKHPUR	2	0	349	0.0	4.9	-4.9	
12	400 kV	BIHARSHARIFF-VARANASI	2	0	243	0.0	3.1	-3.1	
13	220 kV	PUSAULI-SAHUPURI	1	0	136	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	1.3	107.4	-106.1
<b>Import/Export of ER (With WR)</b>									
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	348	748	0.0	5.6	-5.6	
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	1718	0	32.0	0.0	32.0	
3	765 kV	JHARSUGUDA-DURG	2	46	172	0.0	1.0	-1.0	
4	400 kV	JHARSUGUDA-RAIGARH	4	0	386	0.0	5.2	-5.2	
5	400 kV	RANCHI-SIPAT	2	437	0	7.8	0.0	7.8	
6	220 kV	BUDHIPADAR-RAIGARH	1	81	135	0.0	2.3	-2.3	
7	220 kV	BUDHIPADAR-KORBA	2	95	0	1.3	0.0	1.3	
						ER-WR	41.1	14.1	27.0
<b>Import/Export of ER (With SR)</b>									
1	HVDC	JEYPORE-GAZUWAKA B/B	2	245	0	6.1	0.0	6.1	
2	HVDC	TALCHER-KOLAR BIPOLE	2	0	1631	0.0	25.3	-25.3	
3	765 kV	ANGUL-SRIKAKULAM	2	0	2119	0.0	32.4	-32.4	
4	400 kV	TALCHER-I/C	2	920	180	10.5	0.0	10.5	
5	220 kV	BALIMELA-UPPER-SILERRU	1	1	0	0.0	0.0	0.0	
						ER-SR	6.1	57.7	-51.6
<b>Import/Export of ER (With NER)</b>									
1	400 kV	BINAGURI-BONGAIGAON	2	0	344	0.0	6.4	-6.4	
2	400 kV	ALIPURDUAR-BONGAIGAON	2	0	406	0.0	3.6	-3.6	
3	220 kV	ALIPURDUAR-SALAKATI	2	0	139	0.0	2.3	-2.3	
						ER-NER	0.0	12.3	-12.3
<b>Import/Export of NER (With NR)</b>									
1	HVDC	BISWANATH CHARIALI-AGRA	2	0	707	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	3222	0.0	58.3	-58.3	
2	HVDC	VINDHYACHAL B/B	-	195	0	3.5	0.0	3.5	
3	HVDC	MUNDRAMOHINDERGARH	2	0	1451	0.0	28.1	-28.1	
4	765 kV	GWALIOR-AGRA	2	0	2703	0.0	47.3	-47.3	
5	765 kV	GWALIOR-PHAGI	2	0	1783	0.0	33.3	-33.3	
6	765 kV	JABALPUR-ORAI	2	0	1223	0.0	45.8	-45.8	
7	765 kV	GWALIOR-ORAI	1	638	0	13.1	0.0	13.1	
8	765 kV	SATNA-ORAI	1	0	1464	0.0	29.6	-29.6	
9	765 kV	BANASKANTHA-CHITORGARH	2	1203	0	16.2	0.0	16.2	
10	400 kV	ZERDA-KANKROLI	1	281	0	3.8	0.0	3.8	
11	400 kV	ZERDA-BHINMAL	1	435	0	5.9	0.0	5.9	
12	400 kV	VINDHYACHAL-RIHAND	1	975	0	22.7	0.0	22.7	
13	400 kV	RAPP-SHUALPUR	2	0	582	0.0	7.5	-7.5	
14	220 kV	BHANPURA-RANPUR	1	13	75	0.0	0.8	-0.8	
15	220 kV	BHANPURA-MORAK	1	0	30	0.2	0.3	-0.1	
16	220 kV	MEHGAON-AURAIYA	1	87	2	0.3	0.2	0.1	
17	220 kV	MALANPUR-AURAIYA	1	50	33	0.8	0.0	0.8	
18	132 kV	GWALIOR-SAWAI MADHOPUR	1	0	0	0.0	0.0	0.0	
19	132 kV	RAIGHAT-LALITPUR	2	0	0	0.0	0.0	0.0	
						WR-NR	66.4	251.1	-184.7
<b>Import/Export of WR (With SR)</b>									
1	HVDC	BHADRAWATI B/B	-	496	0	12.3	0.0	12.3	
2	HVDC	RAIGARH-PUGALUR	2	1444	0	21.9	0.0	21.9	
3	765 kV	SOLAPUR-RAICHUR	2	1996	431	18.2	0.0	18.2	
4	765 kV	WARDHA-NIZAMABAD	2	435	1589	0.0	12.4	-12.4	
5	400 kV	KOLHAPUR-KUDGI	2	1223	0	19.8	0.0	19.8	
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	1	91	1.3	0.0	1.3	
						WR-SR	73.4	12.4	61.0

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 MANGDECHHU HEP 4*180MW)	656	0	631	15.1
	ER	400KV TALA-BINAGURI 1,2,4 (& 400KV MALBASE - BINAGURI) i.e. BINAGURI RECEIPT (from TALA HEP 6*170MW)	1023	1023	1023	24.5
	ER	220KV CHUKHA-BIRPARA 1&2 (& 220KV MALBASE - BIRPARA) i.e. BIRPARA RECEIPT (from CHUKHA HEP 4*84MW)	300	0	278	6.7
	NER	132KV GELEPHU-SALAKATI	30	24	27	0.7
	NER	132KV MOTANGA-RANGIA	66	34	49	1.2
NEPAL	NR	132KV MAHENDRANAGAR-TANAKPUR(NHPC)	-77	0	-57	-1.4
	ER	NEPAL IMPORT (FROM BIHAR)	-148	-2	-74	-1.8
	ER	400KV DHALKEBAR-MUZAFFARPUR 1&2	-250	-104	-202	-4.8
BANGLADESH	ER	BHERAMARA B/B HVDC (BANGLADESH)	-831	-820	-826	-19.8
	NER	132KV COMILLA-SURAJMANI NAGAR 1&2	-141	0	-128	-3.1