



**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: 14<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 , लापालंग, 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 13.07.2021.**

महोदय/Dear Sir,

आई०ई०जी०सी०-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 13-जुलाई-2021 की अखिल भारतीय प्रणाली की दैनिक ग्रिड निष्पादन रिपोर्ट रा०भा०प्रे०के० 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 13<sup>th</sup> July 2021, is available at the NLDC website.

धन्यवाद,

पाँवर सिस्टम ऑपरेशन कारपोरेशन लिमिटेड  
राष्ट्रीय भार प्रेषण केंद्र, नई दिल्ली



Report for previous day

Date of Reporting: 14-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)	61561	49045	38657	22775	3021	175059
Peak Shortage (MW)	200	0	0	0	5	205
Energy Met (MU)	1437	1152	881	510	55	4034
Hydro Gen (MU)	336	28	84	136	29	612
Wind Gen (MU)	16	76	201	-	-	293
Solar Gen (MU)*	46.68	34.73	62.33	4.61	0.15	149
Energy Shortage (MU)	3.62	0.00	0.00	0.00	0.03	3.65
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	65679	49430	41273	23562	3027	175126
Time Of Maximum Demand Met (From NLDC SCADA)	22:23	11:24	09:37	21:11	19:56	21:10

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	0.026	0.00	0.00	0.46	0.46	73.68	25.85

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	11166	0	243.7	161.0	-1.4	176	0.00
	Haryana	10684	0	212.8	176.0	-2.8	259	0.00
	Rajasthan	12247	0	258.2	74.8	3.9	631	0.00
	Delhi	6088	0	119.9	108.7	-2.1	269	0.02
	UP	23850	0	482.5	233.0	0.7	380	0.00
	Uttarakhand	2058	0	45.5	18.7	0.4	309	0.00
	HP	1394	0	27.3	-5.8	-2.2	0	0.15
	J&K(UT) & Ladakh(UT)	2310	250	41.5	14.7	1.5	320	3.45
WR	Chandigarh	318	0	6.1	6.3	-0.2	42	0.00
	Chhattisgarh	4206	0	101.3	54.2	0.2	266	0.00
	Gujarat	15133	0	331.4	156.7	-0.1	801	0.00
	MP	10414	0	235.5	149.2	-0.5	579	0.00
	Maharashtra	19544	0	429.4	125.2	-4.0	688	0.00
	Goa	531	0	11.0	10.0	0.4	43	0.00
	DD	316	0	6.6	6.5	0.1	46	0.00
	DNH	833	0	19.5	19.4	0.1	48	0.00
SR	AMNSIL	807	0	17.3	3.8	0.1	309	0.00
	Andhra Pradesh	7749	0	164.4	32.2	1.0	713	0.00
	Telangana	8355	0	166.7	57.5	0.3	699	0.00
	Karnataka	8687	0	166.3	15.5	-0.2	555	0.00
	Kerala	3110	0	64.3	34.6	0.1	369	0.00
	Tamil Nadu	14033	0	310.7	120.7	-1.0	883	0.00
	Puducherry	389	0	8.2	8.6	-0.4	16	0.00
	Bihar	6382	0	132.4	123.0	1.5	275	0.00
ER	DVC	3021	0	65.4	-36.3	-0.2	351	0.00
	Jharkhand	1470	0	28.9	24.6	-2.2	161	0.00
	Odisha	5572	0	106.4	37.5	0.3	271	0.00
	West Bengal	8340	0	174.8	51.2	0.4	404	0.00
	Sikkim	105	0	1.7	1.4	0.2	36	0.00
	NER	Assam	123	0	2.5	2.5	0.0	19
Manipur		1957	0	35.0	28.5	-0.3	53	0.00
Mizoram		194	1	2.7	2.7	0.0	17	0.01
Meghalaya		321	0	5.4	1.3	-0.2	38	0.00
Mizoram		97	1	1.6	1.3	0.2	18	0.01
Nagaland		144	0	2.6	2.4	0.0	30	0.01
Tripura		281	2	5.0	4.6	0.2	32	0.00

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

	Bhutan	Nepal	Bangladesh
Actual (MU)	47.8	-8.5	-22.6
Day Peak (MW)	2089.0	-489.0	-965.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	343.5	-180.7	-57.3	-102.7	-2.8	0.0
Actual(MU)	352.6	-178.2	-64.4	-112.4	-4.0	-6.5
OD/UD(MU)	9.1	2.5	-7.1	-9.6	-1.2	-6.5

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL	% Share
Central Sector	4412	15853	8982	1070	622	30939	45
State Sector	7305	18396	7408	4875	11	37995	55
Total	11717	34249	16390	5945	633	68934	100

G. Sourcewise generation (MU)

	NR	WR	SR	ER	NER	All India	% Share
Coal	615	1134	484	513	11	2757	67
Lignite	28	11	42	0	0	82	2
Hydro	336	28	84	136	29	612	15
Nuclear	25	32	42	0	0	99	2
Gas, Naptha & Diesel	26	30	11	0	24	91	2
RES (Wind, Solar, Biomass & Others)	81	111	294	5	0	491	12
Total	1112	1348	956	653	64	4133	100

Share of RES in total generation (%)	7.29	8.23	30.76	0.71	0.23	11.88
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	39.75	12.72	43.85	21.54	44.87	29.09

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.045
Based on State Max Demands	1.099

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: 14-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	2001	0.0	35.7	-35.7
2	HVDC	PUSAULI-B/B	-	0	245	0.0	5.8	-5.8
3	765 kV	GAYA-VARANASI	2	0	710	0.0	10.4	-10.4
4	765 kV	SASARAM-EATEHPUR	1	121	92	0.3	0.0	0.3
5	765 kV	GAYA-BALIA	1	0	640	0.0	11.1	-11.1
6	400 kV	PUSAULI-VARANASI	1	0	236	0.0	4.8	-4.8
7	400 kV	PUSAULI-ALLAHABAD	1	0	77	0.0	1.0	-1.0
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	0	566	0.0	11.3	-11.3
9	400 kV	PATNA-BALIA	4	0	994	0.0	16.9	-16.9
10	400 kV	BIHARSHARIFF-BALIA	2	0	299	0.0	5.6	-5.6
11	400 kV	MOTIHARI-GORAKHPUR	2	0	337	0.0	5.4	-5.4
12	400 kV	BIHARSHARIFF-VARANASI	2	0	265	0.0	3.2	-3.2
13	220 kV	PUSAULI-SAHUPURI	1	8	128	0.0	1.8	-1.8
14	132 kV	SONENAGAR-RIHAND	2	0	0	0.6	0.0	0.6
15	132 kV	GARWAH-RIHAND	1	20	0	0.0	0.0	20.0
16	132 kV	KARMANASA-SAHUPURI	1	0	0	0.0	0.0	0.0
17	132 kV	KARMANASA-CHANDAUJI	1	0	0	0.0	0.0	0.0
						ER-NR	112.9	-112.0
<b>Import/Export of ER (With WR)</b>								
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	88	1086	0.0	13.4	-13.4
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	1724	0	30.6	0.0	30.6
3	765 kV	JHARSUGUDA-DURG	2	75	162	0.0	0.8	-0.8
4	400 kV	JHARSUGUDA-RAIGARH	4	0	379	0.0	4.5	-4.5
5	400 kV	RANCHI-SIPAT	2	444	0	7.9	0.0	7.9
6	220 kV	BUDHIPADAR-RAIGARH	1	0	142	0.0	2.4	-2.4
7	220 kV	BUDHIPADAR-KORBA	2	106	0	1.4	0.0	1.4
						ER-WR	39.9	18.9
<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	1635	0.0	28.4	-28.4
3	765 kV	ANGUL-SRIKAKULAM	2	0	1933	0.0	29.0	-29.0
4	400 kV	TALCHER-J/C	2	802	104	10.7	0.0	10.7
5	220 kV	BALIMELA-UPPER-SILERRU	1	1	0	0.0	0.0	1.0
						ER-SR	6.1	-51.2
<b>Import/Export of ER (With NER)</b>								
1	400 kV	BINAGURI-BONGAIGAON	2	0	416	0.0	6.4	-6.4
2	400 kV	ALIPURDUAR-BONGAIGAON	2	101	354	0.0	2.6	-2.6
3	220 kV	ALIPURDUAR-SALAKATI	2	0	144	0.0	2.2	-2.2
						ER-NER	0.0	11.1
<b>Import/Export of ER (With NR)</b>								
1	HVDC	BISWANATH CHARIALI-AGRA	2	0	703	0.0	16.9	-16.9
						NER-NR	0.0	-16.9
<b>Import/Export of WR (With NR)</b>								
1	HVDC	CHAMPA-KURUKSHETRA	2	0	4035	0.0	65.8	-65.8
2	HVDC	VINDHYACHAL B/B	-	244	52	3.3	0.5	-2.8
3	HVDC	MUNDRA-MOHINDERGARH	2	0	1914	0.0	46.7	-46.7
4	765 kV	GWALIOR-AGRA	2	0	2956	0.0	51.8	-51.8
5	765 kV	GWALIOR-PHAGI	2	0	1958	0.0	35.8	-35.8
6	765 kV	JABALPUR-ORAI	2	0	1339	0.0	48.1	-48.1
7	765 kV	GWALIOR-ORAI	1	613	0	12.8	0.0	12.8
8	765 kV	SATNA-ORAI	1	0	1496	0.0	30.1	-30.1
9	765 kV	BANASKANTHA-CHITORGARH	2	1132	0	14.8	0.0	14.8
10	400 kV	ZERDA-KANKROLI	1	208	0	3.2	0.0	3.2
11	400 kV	ZERDA-BHINMAL	1	449	0	6.7	0.0	6.7
12	400 kV	VINDHYACHAL-RIHAND	1	962	0	14.3	0.0	14.3
13	400 kV	RAPP-SHUALPUR	2	0	571	0.0	8.1	-8.1
14	220 kV	BHANPURA-RANPUR	1	5	87	0.0	1.1	-1.1
15	220 kV	BHANPURA-MORAK	1	0	30	0.1	0.5	-0.4
16	220 kV	MEHGAON-AURAIYA	1	94	3	0.2	0.3	-0.1
17	220 kV	MALANPUR-AURAIYA	1	60	37	0.6	0.0	0.6
18	132 kV	GWALIOR-SAWAI MADHOPUR	1	0	0	0.0	0.0	0.0
19	132 kV	RAJGHAT-LALITPUR	2	0	0	0.0	0.0	0.0
						WR-NR	56.0	-232.8
<b>Import/Export of WR (With SR)</b>								
1	HVDC	BHADRAWATI B/B	-	791	0	14.1	0.0	14.1
2	HVDC	RAIGARH-PUGALUR	2	1448	0	26.4	0.0	26.4
3	765 kV	SOLAPUR-RAICHUR	2	1996	259	22.7	0.0	22.7
4	765 kV	WARDHA-NIZAMABAD	2	478	1200	0.0	8.9	-8.9
5	400 kV	KOLHAPUR-KUDGI	2	1277	0	19.4	0.0	19.4
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	0	81	1.5	0.0	1.5
						WR-SR	84.1	75.2
<b>INTERNATIONAL EXCHANGES</b>								
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)	667	0	623	15.0		
	ER	400kV TALA-BINAGURI 1,2,4 (& 400kV MALBASE - BINAGURI) i.e. BINAGURI RECEIPT (from TALA HEP (6*170MW))	1023	0	1012	24.3		
	ER	220kV CHUKHA-BIRPARA 1&2 (& 220kV MALBASE - BIRPARA) i.e. BIRPARA RECEIPT (from CHUKHA HEP 4*84MW)	302	0	282	6.8		
	NER	132kV GELEPHU-SALAKATI	35	21	27	0.7		
	NER	132kV MOTANGA-RANGIA	62	26	48	1.2		
NEPAL	NR	132kV MAHENDRANAGAR-TANAKPUR(NHPC)	-81	0	-62	-1.5		
	ER	NEPAL IMPORT (FROM BIHAR)	-176	-72	-122	-2.9		
	ER	400kV DHALKEBAR-MUZAFFARPUR 1&2	-232	-106	-170	-4.1		
BANGLADESH	ER	BHERAMARA B/B HVDC (BANGLADESH)	-822	0	-818	-19.6		
	NER	132kV COMILLA-SURAJMANI NAGAR 1&2	-143	0	-124	-3.0		