



**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: 12<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 11.07.2021.**

महोदय/Dear Sir,

आई०ई०जी०सी०-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 11-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 11<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: 12-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)	60904	46922	34061	22755	2907	167549
Peak Shortage (MW)	200	0	0	0	6	206
Energy Met (MU)	1534	1149	807	491	55	4036
Hydro Gen (MU)	355	27	64	138	28	612
Wind Gen (MU)	9	59	186	-	-	254
Solar Gen (MU)*	43.29	23.40	50.67	-4.53	0.18	122
Energy Shortage (MU)	8.67	0.10	0.00	0.00	0.04	8.81
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	72097	48569	36585	23333	2967	179850
Time Of Maximum Demand Met (From NLDC SCADA)	00:00	15:04	09:38	23:06	19:27	00:00

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	0.045	0.00	0.93	8.07	8.99	71.08	19.93

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	12341	0	287.5	185.9	-1.0	118	0.35
	Haryana	11559	394	245.3	199.2	0.5	506	1.42
	Rajasthan	13082	0	276.1	90.4	-0.6	344	0.61
	Delhi	6559	0	131.8	118.0	-0.9	163	0.00
	UP	24238	0	472.6	244.0	-2.7	459	2.16
	Uttarakhand	1984	150	43.0	17.9	1.0	211	0.68
	HP	1261	0	26.1	-5.0	-4.3	0	0.00
	J&K(UT) & Ladakh(UT)	2152	250	44.5	19.2	-0.1	433	3.45
	Chandigarh	325	0	6.6	6.6	0.0	27	0.00
	Chhattisgarh	4107	0	98.7	51.3	-1.3	140	0.00
WR	Gujarat	16471	0	352.7	156.3	3.0	721	0.00
	MP	9893	0	218.6	136.7	0.7	634	0.00
	Maharashtra	18671	0	423.5	142.8	-5.8	611	0.00
	Goa	486	0	10.1	9.4	0.2	35	0.10
	DD	314	0	6.9	6.6	0.3	43	0.00
	DNH	807	0	18.9	18.8	0.1	41	0.00
	AMNSIL	885	0	19.4	5.7	0.1	359	0.00
SR	Andhra Pradesh	7190	0	161.3	34.3	-1.1	465	0.00
	Telangana	8152	0	165.4	65.7	-0.7	504	0.00
	Karnataka	8143	0	152.5	13.1	-3.3	660	0.00
	Kerala	2796	0	56.5	30.0	-0.5	233	0.00
	Tamil Nadu	11994	0	264.1	103.0	-3.3	623	0.00
	Puducherry	352	0	7.3	7.8	-0.4	23	0.00
ER	Bihar	6361	0	121.5	118.2	-0.9	383	0.00
	DVC	3077	0	64.5	-47.1	-0.5	270	0.00
	Jharkhand	1516	0	28.9	25.3	-2.9	160	0.00
	Odisha	5703	0	104.7	31.7	0.1	278	0.00
	West Bengal	8519	0	170.1	48.3	-0.4	287	0.00
	Sikkim	82	0	1.4	1.2	0.3	25	0.00
NER	Arunachal Pradesh	133	0	2.4	2.6	-0.3	36	0.01
	Assam	1948	0	35.7	27.9	0.8	121	0.00
	Manipur	193	1	2.5	2.6	-0.1	32	0.01
	Meghalaya	279	0	5.4	1.5	-0.2	24	0.00
	Mizoram	95	1	1.6	1.6	0.0	17	0.01
	Nagaland	129	1	2.5	2.4	0.1	20	0.01
	Tripura	289	2	4.7	4.7	-0.1	58	0.00

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

	Bhutan	Nepal	Bangladesh
Actual (MU)	48.8	-6.9	-22.9
Day Peak (MW)	2118.0	-474.7	-975.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	411.1	-208.1	-68.3	-131.1	-3.6	0.0
Actual(MU)	414.0	-189.4	-91.9	-138.9	-3.4	-9.5
O/D/U/D(MU)	3.0	18.7	-23.7	-7.8	0.2	-9.5

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL	% Share
Central Sector	4572	15684	8512	458	588	29814	44
State Sector	8225	17170	7678	4155	11	37239	56
Total	12797	32854	16190	4613	600	67053	100

G. Sourcewise generation (MU)

	NR	WR	SR	ER	NER	All India	% Share
Coal	629	1175	493	529	10	2836	68
Lignite	27	12	38	0	0	77	2
Hydro	355	27	64	138	28	612	15
Nuclear	30	33	47	0	0	109	3
Gas, Naptha & Diesel	32	28	11	0	25	96	2
RES (Wind, Solar, Biomass & Others)	71	83	265	5	0	423	10
Total	1144	1356	917	672	64	4152	100

Share of RES in total generation (%)	6.19	6.08	28.87	0.68	0.28	10.18
Share of Non-fossil fuel (Hydro, Nuclear and RES) in total generation(%)	39.84	10.45	40.93	21.26	44.49	27.55

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.021
Based on State Max Demands	1.068

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: 12-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	2501	0.0	41.8	-41.8
2	HVDC	PUSAULI B/B	-	0	248	0.0	6.1	-6.1
3	765 kV	GAYA-VARANASI	2	0	939	0.0	16.7	-16.7
4	765 kV	SASARAM-FATEHPUR	1	157	345	0.0	2.3	-2.3
5	765 kV	GAYA-BALIA	1	0	791	0.0	13.9	-13.9
6	400 kV	PUSAULI-VARANASI	1	0	229	0.0	4.5	-4.5
7	400 kV	PUSAULI-ALAHABAD	1	0	98	0.0	1.4	-1.4
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	0	758	0.0	10.7	-10.7
9	400 kV	PATNA-BALIA	4	0	1205	0.0	20.4	-20.4
10	400 kV	BHARSHARIFF-BALIA	2	0	482	0.0	7.2	-7.2
11	400 kV	MOTIHARI-GORAKHPUR	2	0	430	0.0	6.6	-6.6
12	400 kV	BHARSHARIFF-VARANASI	2	0	382	0.0	5.1	-5.1
13	220 kV	PUSAULI-SAHUPURI	1	0	140	0.0	2.2	-2.2
14	132 kV	SONE NAGAR-RIHAND	1	0	0	0.0	0.0	0.0
15	132 kV	GARWAH-RIHAND	1	20	0	0.6	0.0	0.6
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
<b>ER-NR</b>						<b>0.6</b>	<b>138.7</b>	<b>-138.2</b>
<b>Import/Export of ER (With WR)</b>								
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	396	793	0.0	8.1	-8.1
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	1882	0	27.0	0.0	27.0
3	765 kV	JHARSUGUDA-DURG	2	199	69	1.5	0.0	1.5
4	400 kV	JHARSUGUDA-RAIGARH	4	129	414	0.0	3.7	-3.7
5	400 kV	RANCHI-SIPAT	2	516	0	7.5	0.0	7.5
6	220 kV	BUDHIPADAR-RAIGARH	1	0	161	0.0	2.3	-2.3
7	220 kV	BUDHIPADAR-KORBA	2	121	5	1.3	0.0	1.3
<b>ER-WR</b>						<b>37.4</b>	<b>14.1</b>	<b>23.3</b>
<b>Import/Export of ER (With SR)</b>								
1	HVDC	JEYPORE-GAZIWAKA B/B	2	388	0	4.6	0.0	4.6
2	HVDC	TALCHER-KOLAR BIPOLE	2	0	1630	0.0	29.6	-29.6
3	765 kV	ANGUL-SRIKAKULAM	2	0	2024	0.0	29.0	-29.0
4	400 kV	TALCHER-I/C	2	1068	0	14.0	0.0	14.0
5	220 kV	BALIMELA-UPPER-SILERRU	1	1	0	0.0	0.0	0.0
<b>ER-SR</b>						<b>4.6</b>	<b>58.6</b>	<b>-54.0</b>
<b>Import/Export of ER (With NER)</b>								
1	400 kV	BINAGURI-BONGAIGAON	2	0	685	0.0	9.5	-9.5
2	400 kV	ALIPURDUAR-BONGAIGAON	2	90	431	0.0	6.0	-6.0
3	220 kV	ALIPURDUAR-SALAKATI	2	0	160	0.0	2.6	-2.6
<b>ER-NER</b>						<b>0.0</b>	<b>18.1</b>	<b>-18.1</b>
<b>Import/Export of NER (With NR)</b>								
1	HVDC	BISWANATH CHARIALI-AGRA	2	0	1004	0.0	22.4	-22.4
<b>NER-NR</b>						<b>0.0</b>	<b>22.4</b>	<b>-22.4</b>
<b>Import/Export of WR (With NR)</b>								
1	HVDC	CHAMPA-KURUKSHETRA	2	0	4536	0.0	62.8	-62.8
2	HVDC	VINDHYACHAL B/B	-	244	252	1.7	1.9	-0.2
3	HVDC	MUNDRU-MOHINDERGARH	2	0	1913	0.0	38.4	-38.4
4	765 kV	GWALIOR-AGRA	2	0	3128	0.0	58.8	-58.8
5	765 kV	GWALIOR-PHAGI	2	0	2279	0.0	43.7	-43.7
6	765 kV	JABALPUR-ORAI	2	0	1386	0.0	55.5	-55.5
7	765 kV	GWALIOR-ORAI	1	760	0	13.2	0.0	13.2
8	765 kV	SATNA-ORAI	1	0	1638	0.0	32.9	-32.9
9	765 kV	BANASKANTHA-CHITTOGARH	1	890	286	8.7	0.0	8.7
10	400 kV	ZERDA-KANKROLI	1	234	40	2.6	0.0	2.6
11	400 kV	ZERDA-BHINMAL	1	386	84	3.3	0.0	3.3
12	400 kV	VINDHYACHAL -RIHAND	1	483	0	11.2	0.0	11.2
13	400 kV	RAPP-SHUJALPUR	2	0	647	0.0	10.3	-10.3
14	220 kV	BHANPURA-RANPUR	1	0	96	0.0	1.4	-1.4
15	220 kV	BHANPURA-MORAK	1	0	30	0.1	0.8	-0.7
16	220 kV	MEHGAON-AURAIYA	1	82	18	0.1	0.4	-0.3
17	220 kV	MALANPUR-AURAIYA	1	40	44	0.5	0.3	0.2
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
<b>WR-NR</b>						<b>41.4</b>	<b>307.2</b>	<b>-265.8</b>
<b>Import/Export of WR (With SR)</b>								
1	HVDC	BHADRAWATI B/B	-	791	0	19.2	0.0	19.2
2	HVDC	RAIGARH-PUGALUR	2	1930	0	45.3	0.0	45.3
3	765 kV	SOLAPUR-RAICHUR	2	2032	305	22.3	0.0	22.3
4	765 kV	WARDHA-NIZAMABAD	2	368	1342	0.6	12.5	-12.0
5	400 kV	KOLHAPUR-KUDGI	2	1469	0	24.3	0.0	24.3
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	76	1.4	0.0	1.4
<b>WR-SR</b>						<b>113.0</b>	<b>12.5</b>	<b>100.5</b>

INTERNATIONAL EXCHANGES

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)	682	0	672	16.1
	ER	400kV TALA-BINAGURI 1,2 (& 400kV MALBASE - BINAGURI) i.e. BINAGURI RECEIPT (from TALA HEP (6*170MW))	1023	0	1011	24.3
	ER	220kV CHUKHA-BIRPARA 1&2 (& 220kV MALBASE - BIRPARA) i.e. BIRPARA RECEIPT (from CHUKHA HEP 4*84MW)	310	0	278	6.7
	NER	132kV GELEPHU-SALAKATI	43	25	32	0.8
	NER	132kV MOTANGA-RANGIA	60	25	40	1.0
NEPAL	NR	132kV MAHENDRANAGAR-TANAKPUR(NHPC)	-73	0	-52	-1.3
	ER	NEPAL IMPORT (FROM BIHAR)	-147	-1	-74	-1.8
	ER	400kV DHALKEBAR-MUZAFFARPUR 1&2	-255	-50	-160	-3.9
BANGLADESH	ER	BHERAMARA B/B HVDC (BANGLADESH)	-821	-811	-814	-19.5
	NER	132kV COMILLA-SURAJMANI NAGAR 1&2	-154	0	-140	-3.4