



**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: 21<sup>th</sup> March 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 20.03.2022.**

महोदय/Dear Sir,

आईईजीसी-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 20-मार्च -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 20<sup>th</sup> March 2022, 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: 21-Mar-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 19:00 hrs; from RLDCs)	49409	56526	42774	22726	2738	174173
Peak Shortage (MW)	15	0	0	259	0	274
Energy Met (MU)	1103	1401	1123	477	49	4152
Hydro Gen (MU)	188	36	91	51	11	376
Wind Gen (MU)	12	87	98	-	-	197
Solar Gen (MU)*	89.40	46.49	93.42	4.68	0.39	234
Energy Shortage (MU)	7.66	0.00	0.00	2.50	0.00	10.16
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	52431	62210	52730	23112	2750	186640
Time Of Maximum Demand Met (From NLDC SCADA)	19:22	11:21	11:22	20:04	18:21	11:49

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	0.046	0.01	1.28	10.64	11.93	78.87	9.20

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	7712	0	150.6	57.8	0.4	152	0.00
	Haryana	6562	0	128.9	88.7	0.1	209	2.36
	Rajasthan	13072	0	261.0	66.8	1.4	412	0.00
	Delhi	3498	0	74.2	61.7	-0.6	206	0.00
	UP	19723	0	369.3	166.9	-0.3	454	0.00
	Uttarakhand	1779	0	35.8	16.7	1.2	176	0.04
	HP	1360	0	26.3	10.3	-0.4	93	0.61
	J&K(UT) & Ladakh(UT)	2348	0	53.7	38.0	1.8	316	4.65
WR	Chandigarh	185	0	3.5	4.3	-0.8	11	0.00
	Chhattisgarh	4581	0	109.7	56.0	-1.2	201	0.00
	Gujarat	17594	0	392.9	189.4	2.9	646	0.00
	MP	12178	0	260.4	148.5	-1.3	802	0.00
	Maharashtra	26210	0	581.3	177.7	-3.1	713	0.00
	Goa	615	0	13.1	11.9	0.9	75	0.00
	DD	333	0	7.4	6.8	0.6	57	0.00
	DNH	843	0	19.3	18.8	0.5	97	0.00
SR	AMNSIL	767	0	16.7	10.6	-0.6	221	0.00
	Andhra Pradesh	11428	0	222.3	104.9	-0.1	576	0.00
	Telangana	12468	0	250.7	119.1	-0.5	755	0.00
	Karnataka	12402	0	241.5	82.1	-0.2	918	0.00
	Kerala	3761	0	76.3	55.5	-1.2	221	0.00
	Tamil Nadu	14521	0	324.3	194.0	0.3	661	0.00
	Puducherry	373	0	8.1	8.4	-0.4	19	0.00
	ER	Bihar	5763	0	112.3	105.7	0.5	329
DVC		3345	0	71.1	-45.3	1.7	559	0.00
Jharkhand		1642	0	32.3	24.6	-0.8	147	0.85
Odisha		5321	0	109.7	47.4	-2.4	342	0.00
West Bengal		7644	0	149.9	18.8	-1.0	359	0.00
Sikkim		82	0	1.3	1.5	-0.2	17	0.00
NER	Arunachal Pradesh	116	0	2.3	2.4	-0.2	8	0.00
	Assam	1681	0	28.8	22.9	-0.6	99	0.00
	Manipur	182	0	2.6	2.5	0.1	13	0.00
	Meghalaya	333	0	6.4	5.6	-0.1	47	0.00
	Mizoram	112	0	1.6	1.4	-0.3	6	0.00
	Nagaland	141	0	2.5	2.3	0.2	14	0.00
	Tripura	262	0	4.6	4.0	0.0	37	0.00

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

	Bhutan	Nepal	Bangladesh
Actual (MU)	12.1	-7.7	-20.7
Day Peak (MW)	629.0	-555.8	-894.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	123.6	-170.0	175.6	-133.8	4.6	0.0
Actual(MU)	121.3	-152.4	167.7	-137.2	1.2	0.5
O/D/U/D(MU)	-2.4	17.6	-7.9	-3.4	-3.4	0.5

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL	% Share
Central Sector	5131	12830	6362	2031	535	26889	40
State Sector	12959	15283	9513	2468	11	40234	60
Total	18091	28113	15875	4499	546	67123	100

G. Sourcewise generation (MU)

	NR	WR	SR	ER	NER	All India	% Share
Coal	605	1346	551	589	12	3103	73
Lignite	26	12	35	0	0	73	2
Hvdro	188	36	91	51	11	376	9
Nuclear	32	33	70	0	0	135	3
Gas, Naptha & Diesel	14	18	9	0	30	71	2
RES (Wind, Solar, Biomass & Others)	135	134	218	5	0	493	12
Total	1000	1579	975	644	53	4251	100

Share of RES in total generation (%)	13.53	8.50	22.37	0.72	0.74	11.59
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	35.51	12.86	38.94	8.60	20.73	23.62

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.035
Based on State Max Demands	1.077

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: 21-Mar-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>								
2	HVDC	ALIPURDUAR-AGRA	2	0	0	0.0	0.0	0.0
3	HVDC	PUSAULI B/B	-	3	0	0.0	0.0	0.0
4	765 kV	GAYA-VARANASI	2	0	442	0.0	5.2	-5.2
5	765 kV	SASARAM-FATEHPUR	1	0	262	0.0	4.7	-4.7
6	765 kV	GAYA-BALIA	1	0	469	0.0	7.7	-7.7
1	400kV	NAUBATPUR-BALIA	2	0	757	0.0	14.9	-14.9
7	400 kV	PUSAULI-VARANASI	1	20	54	0.0	0.2	-0.2
8	400 kV	PUSAULI-ALLAHABAD	1	38	74	0.0	0.2	-0.2
9	400 kV	MUZAFFARPUR-GORAKHPUR	2	118	651	0.0	7.6	-7.6
10	400 kV	PATNA-BALIA	2	0	525	0.0	13.2	-13.2
11	400 kV	BHARSHARIFF-BALIA	2	66	334	0.0	2.8	-2.8
12	400 kV	MOTIHARI-GORAKHPUR	2	237	148	1.0	0.0	1.0
13	400 kV	BHARSHARIFF-VARANASI	2	0	215	0.0	2.3	-2.3
14	220 kV	SATIPTRI-KARMANASA	1	0	127	0.0	1.9	-1.9
15	132 kV	NAGAR UNTARI-BIHAND	1	0	0	0.0	0.0	0.0
16	132 kV	GARWAH-BIHAND	1	25	0	0.6	0.0	0.6
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						1.6	60.7	-59.0
<b>Import/Export of ER (With WR)</b>								
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	1095	0	10.2	0.0	10.2
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	1059	546	6.9	0.0	6.9
3	765 kV	JHARSUGUDA-DURG	2	31	541	0.0	5.6	-5.6
4	400 kV	JHARSUGUDA-RAIGARH	4	0	486	0.0	6.9	-6.9
5	400 kV	RANCHI-SIPAT	2	216	187	0.7	0.0	0.7
6	220 kV	BUDHIPADAR-RAIGARH	1	0	118	0.0	1.6	-1.6
7	220 kV	BUDHIPADAR-KORBA	2	69	30	0.6	0.0	0.6
ER-WR						18.3	14.1	4.2
<b>Import/Export of ER (With SR)</b>								
1	HVDC	JEYPORE-GAZUWAKA B/B	2	0	709	0.0	16.2	-16.2
2	HVDC	TALCHER-KOLAR BIPOLE	2	0	1990	0.0	43.6	-43.6
3	765 kV	ANGUL-SRIKAKULAM	2	0	3001	0.0	54.8	-54.8
4	400 kV	TALCHER-I/C	2	362	348	0.0	2.0	-2.0
5	220 kV	BALIMELA-UPPER-SILERRU	1	1	0	0.0	0.0	0.0
ER-SR						0.0	114.6	-114.6
<b>Import/Export of ER (With NER)</b>								
1	400 kV	BINAGURI-BONGAIGAON	2	52	251	0.0	3.2	-3.2
2	400 kV	ALIPURDUAR-BONGAIGAON	2	21	423	0.0	4.9	-4.9
3	220 kV	ALIPURDUAR-SALAKATI	2	0	79	0.0	1.0	-1.0
ER-NER						0.0	9.1	-9.1
<b>Import/Export of NER (With NR)</b>								
1	HVDC	BISWANATH CHARIALI-AGRA	2	0	502	0.0	8.5	-8.5
NER-NR						0.0	8.5	-8.5
<b>Import/Export of WR (With NR)</b>								
1	HVDC	CHAMPA-KURUKSHETRA	2	0	1508	0.0	36.4	-36.4
2	HVDC	VINDHYACHAL B/B	-	449	0	12.1	0.0	12.1
3	HVDC	MUNDRAMOHINDERGARH	2	0	0	0.0	0.0	0.0
4	765 kV	GWALIOR-AGRA	2	21	1876	0.0	23.2	-23.2
5	765 kV	GWALIOR-PHAGI	2	135	1224	0.1	15.1	-15.0
6	765 kV	JABALPUR-ORAI	2	0	783	0.0	20.1	-20.1
7	765 kV	GWALIOR-ORAI	1	706	0	12.4	0.0	12.4
8	765 kV	SATNA-ORAI	1	0	747	0.0	15.5	-15.5
9	765 kV	BANASKANTHA-CHITORGARH	2	1842	0	25.2	0.0	25.2
10	765 kV	VINDHYACHAL-VARANASI	2	0	2358	0.0	37.4	-37.4
11	400 kV	ZERDA-KANKROLI	1	379	0	6.1	0.0	6.1
12	400 kV	ZERDA-BHINMAL	1	572	0	8.5	0.0	8.5
13	400 kV	VINDHYACHAL-RIHAND	1	972	0	22.5	0.0	22.5
14	400 kV	KAPP-SHUALPUR	2	380	277	3.5	1.1	2.4
15	220 kV	BHANPURA-RANPUR	1	0	0	0.0	0.0	0.0
16	220 kV	BHANPURA-MORAK	1	0	30	0.0	0.0	0.0
17	220 kV	MEHGAON-AURAIYA	1	121	0	0.9	0.0	0.9
18	220 kV	MALANPUR-AURAIYA	1	76	0	1.9	0.0	1.9
19	132 kV	GWALIOR-SAWAI MADHOPUR	1	0	0	0.0	0.0	0.0
20	132 kV	RAIGHAT-LALITPUR	2	0	0	0.0	0.0	0.0
WR-NR						93.3	148.8	-55.5
<b>Import/Export of WR (With SR)</b>								
1	HVDC	BHADRAWATI B/B	-	0	1019	0.0	17.8	-17.8
2	HVDC	RAIGARH-PUGALUR	2	0	4512	0.0	54.3	-54.3
3	765 kV	SOLAPUR-RAICHUR	2	1004	1381	1.6	12.3	-10.7
4	765 kV	WARDHA-NIZAMABAD	2	0	2883	0.0	40.4	-40.4
5	400 kV	KOLHAPUR-KUDGI	2	1531	0	28.1	0.0	28.1
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	120	2.4	0.0	2.4
WR-SR						32.1	124.8	-92.7
<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)	239	0	170	4.1		
	ER	400kV TALA-BINAGURI 1,2,4 (& 400kV MALBASE - BINAGURI) i.e. BINAGURI RECEIPT (from TALA HEP (6*150MW)	362	229	289	6.9		
	ER	220kV CHUKHA-BIRPARA 1&2 (& 220kV MALBASE - BIRPARA) i.e. BIRPARA RECEIPT (from CHUKHA HEP 4*84MW)	103	31	59	1.4		
	NER	132kV GELEPHU-SALAKATI	14	2	8	0.2		
	NER	132kV MOTANGA-RANGIA	-27	-12	-20	-0.5		
NEPAL	NR	132kV MAHENDRANAGAR-TANAKPUR(NHPC)	-80	0	-66	-1.6		
	ER	NEPAL IMPORT (FROM BIHAR)	-252	-38	-120	-2.9		
	ER	400kV DHALKEBAR-MUZAFFARPUR 1&2	-224	0	-137	-3.3		
BANGLADESH	ER	BHERAMARA B/B HVDC (BANGLADESH)	-731	-724	-729	-17.5		
	NER	132kV COMILLA-SURAJMANI NAGAR 1&2	-163	0	-135	-3.2		