



**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: 17<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 16.03.2022.**

महोदय/Dear Sir,

आईईजीसी-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 16-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 16<sup>th</sup> March 2022, 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: 17-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)	51702	59997	48210	22707	2777	185393
Peak Shortage (MW)	1531	0	0	696	0	2227
Energy Met (MU)	1144	1458	1222	479	51	4353
Hydro Gen (MU)	184	69	105	39	10	407
Wind Gen (MU)	25	58	26	-	-	109
Solar Gen (MU)*	94.29	48.53	110.27	5.47	0.45	259
Energy Shortage (MU)	20.98	0.78	0.00	3.58	0.00	25.34
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	53794	65101	58681	23162	2846	198284
Time Of Maximum Demand Met (From NLDC SCADA)	12:07	11:03	11:32	18:40	18:04	11:44

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	0.079	0.09	5.17	14.49	19.75	74.54	5.71

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	8343	0	163.3	69.7	-0.7	91	0.60
	Haryana	7476	0	139.6	91.0	2.4	404	9.80
	Rajasthan	13656	481	275.5	68.2	1.2	449	4.12
	Delhi	3841	0	74.9	65.1	-0.6	148	0.00
	UP	20001	0	369.2	168.4	0.1	232	0.00
	Uttarakhand	1902	0	38.0	19.7	1.2	163	1.81
	HP	1660	0	29.9	14.5	-0.1	245	0.00
	J&K(UT) & Ladakh(UT)	2428	300	50.1	37.9	0.5	266	4.65
	Chandigarh	192	0	3.6	4.2	-0.6	14	0.00
WR	Chhattisgarh	4816	0	112.5	59.6	-2.3	255	0.00
	Gujarat	18817	0	421.8	204.1	6.4	1367	0.00
	MP	12362	0	270.2	139.5	-0.6	606	0.00
	Maharashtra	27368	0	596.4	174.6	1.8	907	0.00
	Goa	672	0	13.5	11.8	1.2	101	0.78
	DD	365	0	8.2	7.7	0.5	83	0.00
	DNH	888	0	20.6	19.7	0.9	93	0.00
	AMNSIL	773	0	14.6	10.6	-2.1	219	0.00
	SR	Andhra Pradesh	11776	0	226.0	110.4	2.0	836
Telangana		12878	0	264.2	123.7	0.7	876	0.00
Karnataka		14433	0	280.5	98.7	-1.0	441	0.00
Kerala		4183	0	89.3	60.4	-0.9	202	0.00
Tamil Nadu		15954	0	353.6	240.3	2.6	765	0.00
Puducherry		384	0	8.2	8.7	-0.6	19	0.00
Bihar		5429	0	102.1	95.0	0.5	335	0.89
DYC		3446	0	74.0	-56.6	-1.1	369	0.00
Jharkhand		1548	0	30.3	22.0	-0.8	220	2.70
ER	Odisha	5316	0	109.5	41.4	-1.9	416	0.00
	West Bengal	8038	0	161.7	33.6	-0.6	332	0.00
	Sikkim	105	0	1.6	1.8	-0.2	15	0.00
	Arunachal Pradesh	131	0	2.3	2.6	-0.4	15	0.00
	Assam	1716	0	30.6	25.1	0.6	84	0.00
NER	Manipur	187	0	2.4	2.7	-0.4	22	0.00
	Meghalaya	367	0	6.7	5.4	0.0	58	0.00
	Mizoram	100	0	1.7	1.5	-0.2	5	0.00
	Nagaland	151	0	2.6	2.3	0.2	18	0.00
	Tripura	266	0	4.4	4.4	0.1	91	0.00

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

	Bhutan	Nepal	Bangladesh
Actual (MU)	1.7	-11.2	-20.8
Day Peak (MW)	15.0	-722.0	-891.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	154.8	-230.3	230.8	-161.6	6.3	0.0
Actual(MU)	143.6	-219.2	231.6	-164.0	4.0	-4.0
O/D/U/D(MU)	-11.2	11.2	0.8	-2.4	-2.3	-4.0

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL	% Share
Central Sector	5001	12125	6862	1621	535	26145	41
State Sector	13794	15259	7193	1640	47	37932	59
Total	18795	27384	14055	3261	582	64077	100

G. Sourcewise generation (MU)

	NR	WR	SR	ER	NER	All India	% Share
Coal	612	1470	626	637	13	3359	75
Lignite	31	13	33	0	0	77	2
Hydro	184	69	105	39	10	407	9
Nuclear	32	33	70	0	0	135	3
Gas, Naptha & Diesel	12	14	8	0	29	62	1
RES (Wind, Solar, Biomass & Others)	151	108	165	5	0	430	10
Total	1022	1708	1007	681	53	4471	100

Share of RES in total generation (%)	14.80	6.31	16.39	0.80	0.85	9.62
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	35.94	12.29	33.78	6.49	20.26	21.75

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.027
Based on State Max Demands	1.069

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)

Sl No	Voltage Level	Line Details	No. of Circuit	Max Import (MW)	Max Export (MW)	Date of Reporting: 17-Mar-2022			
						Import (MU)	Export (MU)	NET (MU)	
<b>Import/Export of ER (With NR)</b>									
1	HVDC	ALIPURDUAR-AGRA	2	0	0	0.0	0.0	0.0	
2	HVDC	PUSAULI B/B	-	4	0	0.0	0.0	0.0	
3	765 kV	GAYA-VARANASI	2	0	641	0.0	10.8	-10.8	
4	765 kV	SASARAMI-FATEHPUR	1	0	415	0.0	8.7	-8.7	
5	765 kV	GAYA-BALIA	1	0	588	0.0	10.8	-10.8	
6	400 kV	PUSAULLY-VARANASI	1	0	107	0.0	1.4	-1.4	
7	400 kV	PUSAULI-ALLAHABAD	1	0	173	0.0	2.5	-2.5	
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	49	720	0.0	10.1	-10.1	
9	400 kV	PATNA-BALIA	4	0	1096	0.0	22.7	-22.7	
10	400 kV	BIHARSHARIFF-BALIA	2	0	541	0.0	6.7	-6.7	
11	400 kV	MOTIHARI-GORAKHPUR	2	181	165	0.0	0.1	-0.1	
12	400 kV	BIHARSHARIFF-VARANASI	2	0	339	0.0	5.5	-5.5	
13	220 kV	SAHUPURI-KARAMNANA	1	0	147	0.0	2.4	-2.4	
14	132 kV	NAGAR UNTARI-RIHAND	1	0	0	0.0	0.0	0.0	
15	132 kV	GARWAH-RIHAND	1	25	0	0.5	0.0	0.5	
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	0.5	81.7	-81.3
<b>Import/Export of ER (With WR)</b>									
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	710	292	7.5	0.0	7.5	
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	650	382	3.2	0.0	3.2	
3	765 kV	JHARSUGUDA-DURG	2	0	426	0.0	6.2	-6.2	
4	400 kV	JHARSUGUDA-RAIGARH	4	0	536	0.0	8.9	-8.9	
5	400 kV	RANCHI-SIPAT	2	112	168	0.0	1.3	-1.3	
6	220 kV	BUDHIPADAR-RAIGARH	1	0	155	0.0	2.4	-2.4	
7	220 kV	BUDHIPADAR-KORBA	2	117	26	1.0	0.0	1.0	
						ER-WR	11.8	18.8	-7.0
<b>Import/Export of ER (With SR)</b>									
1	HVDC	JEYPORE-GAZIWAKA B/B	2	0	710	0.0	16.2	-16.2	
2	HVDC	TALCHER-KOLAR BIPOLE	2	0	2472	0.0	49.2	-49.2	
3	765 kV	ANGUL-SIRSAKULAM	2	0	3061	0.0	59.9	-59.9	
4	400 kV	TALCHER-IC	2	0	627	0.0	4.0	-4.0	
5	220 kV	BALIMELA-UPPER-SILERRU	1	1	0	0.0	0.0	0.0	
						ER-SR	0.0	125.3	-125.3
<b>Import/Export of ER (With NER)</b>									
1	400 kV	BINAGURI-BONGAIGAON	2	210	44	1.3	0.0	1.3	
2	400 kV	ALIPURDUAR-BONGAIGAON	2	275	81	2.5	0.0	2.5	
3	220 kV	ALIPURDUAR-SALAKATI	2	46	30	0.4	0.0	0.4	
						ER-NER	4.2	0.0	4.2
<b>Import/Export of NER (With NR)</b>									
1	HVDC	BISWANATH CHARIALI-AGRA	2	388	0	8.1	0.0	8.1	
						NER-NR	8.1	0.0	8.1
<b>Import/Export of WR (With NR)</b>									
1	HVDC	CHAMPA-KURUKSHETRA	2	0	1005	0.0	15.8	-15.8	
2	HVDC	VINDHYACHAL B/B	-	340	0	9.1	0.0	9.1	
3	HVDC	MUNDIRA-MOHINDERGARH	2	0	497	0.0	2.4	-2.4	
4	765 kV	GWALIOR-AGRA	2	0	1894	0.0	30.5	-30.5	
5	765 kV	GWALIOR-PHAGI	2	0	1314	0.0	21.8	-21.8	
6	765 kV	JABALPUR-ORAI	2	0	930	0.0	27.3	-27.3	
7	765 kV	GWALIOR-ORAI	1	775	0	13.1	0.0	13.1	
8	765 kV	SATNA-ORAI	1	0	1019	0.0	20.3	-20.3	
9	765 kV	BANASKANTHA-CHITORGARH	2	1808	0	29.1	0.0	29.1	
10	765 kV	VINDHYACHAL-VARANASI	2	0	2690	0.0	45.9	-45.9	
11	400 kV	ZERDA-KANKROLI	1	356	0	6.3	0.0	6.3	
12	400 kV	ZERDA-BHINMAL	1	617	26	10.0	0.0	10.0	
13	400 kV	VINDHYACHAL-RIHAND	1	984	0	22.4	0.0	22.4	
14	400 kV	RAPP-SHUALPUR	2	251	326	1.3	1.2	0.1	
15	220 kV	BHANPURA-RANPUR	1	243	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	90	2	0.7	0.0	0.7	
18	220 kV	MALANPUR-AURAIYA	1	67	9	2.2	0.0	2.2	
19	132 kV	GWALIOR-SAWAI MADHOPUR	1	0	0	0.0	0.0	0.0	
20	132 kV	RAJGHAT-LALITPUR	2	9	0	0.0	0.0	0.0	
						WR-NR	94.1	165.2	-71.1
<b>Import/Export of WR (With SR)</b>									
1	HVDC	BHADRAWATI B/B	-	0	1019	0.0	24.0	-24.0	
2	HVDC	RAIGARH-PUGALUR	2	0	5018	0.0	85.8	-85.8	
3	765 kV	SOLAPUR-RAICHUR	2	16	1680	0.0	19.4	-19.4	
4	765 kV	WARDHA-NIZAMABAD	2	0	2945	0.0	50.1	-50.1	
5	400 kV	KOLHAPUR-KUDGI	2	1267	0	23.3	0.0	23.3	
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	122	2.6	0.0	2.6	
						WR-SR	25.8	179.3	-153.5

**INTERNATIONAL EXCHANGES**

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)	184	0	136	3.3
	ER	400kV TALA-BINAGURI 1,2,4 & 400kV MALBASE - BINAGURI i.e. BINAGURI RECEIPT (from TALA HEP (6*170MW)	0	0	0	0.0
	ER	220kV CHUKHA-BIRPARA 1&2 (& 220kV MALBASE - BIRPARA) i.e. BIRPARA RECEIPT (from CHUKHA HEP 4*84MW)	0	0	0	0.0
	NER	132kV GELEPHU-SALAKATI	-6	0	-2	-0.1
	NER	132kV MOTANGA-RANGIA	-15	-2	-5	-0.1
NEPAL	NR	132kV MAHENDRANAGAR-TANAKPUR(NHPC)	-80	0	-54	-1.3
	ER	NEPAL IMPORT (FROM BIHAR)	-251	-50	-223	-5.3
	ER	400kV DHALKEBAR-MUZAFFARPUR 1&2	-391	28	-191	-4.6
BANGLADESH	ER	BHERAMARA B/B HVDC (BANGLADESH)	-733	-727	-731	-17.5
	NER	132kV COMILLA-SURAJMANI NAGAR 1&2	158	0	-137	-3.3