



**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: 16<sup>th</sup> Mar 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 15.03.2021.**

महोदय/Dear Sir,

आई०ई०जी०सी०-2010 की धारा स.5.5.1 के प्रावधान के अनुसार, दिनांक 15-मार्च-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 15<sup>th</sup> March 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: 16-Mar-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 19:00 hrs; from RLDCs)	47091	54813	46972	21647	2507	173630
Peak Shortage (MW)	925	296	0	114	132	1467
Energy Met (MU)	1031	1309	1168	426	45	3979
Hydro Gen (MU)	109	40	92	40	9	291
Wind Gen (MU)	3	51	41	-	-	95
Solar Gen (MU)*	42.29	36.95	115.56	5.09	0.21	200
Energy Shortage (MU)	11.18	0.79	0.00	0.34	0.94	13.25
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	49464	58399	55897	21863	2818	181262
Time Of Maximum Demand Met (From NLDC SCADA)	19:28	11:50	10:56	19:05	18:23	10:54

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	0.040	0.00	1.19	6.19	7.38	71.30	21.32

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	6489	0	139.3	60.9	-0.6	147	0.00
	Haryana	6302	0	134.4	82.8	0.1	150	0.00
	Rajasthan	12495	0	243.1	77.8	1.8	537	0.00
	Delhi	3498	0	68.5	55.9	-1.2	110	0.02
	UP	17324	0	321.6	114.1	-0.5	430	0.23
	Uttarakhand	1918	0	36.5	21.3	0.6	265	0.93
	HP	1696	0	30.8	23.6	1.5	253	0.00
	J&K(UT) & Ladakh(UT)	2864	500	53.3	44.0	2.7	542	10.00
WR	Chandigarh	180	0	3.2	3.3	-0.1	22	0.00
	Chhattisgarh	4477	0	104.9	54.2	-0.4	275	0.79
	Gujarat	17980	0	388.1	144.4	2.1	658	0.00
	MP	11560	0	230.9	131.7	-0.4	706	0.00
	Maharashtra	24594	0	528.4	161.0	-3.0	617	0.00
	Goa	559	0	11.8	11.5	-0.2	68	0.00
	DD	342	0	7.6	7.2	0.3	31	0.00
	DNH	881	0	20.3	20.0	0.3	63	0.00
SR	AMNSIL	814	0	17.2	1.2	0.1	262	0.00
	Andhra Pradesh	10920	0	213.1	85.2	1.7	562	0.00
	Telangana	13259	0	270.4	143.6	1.4	612	0.00
	Karnataka	13395	0	262.5	104.9	1.7	874	0.00
	Kerala	4225	0	84.2	58.8	0.4	280	0.00
	Tamil Nadu	15428	0	330.0	206.9	-1.4	508	0.00
	Puducherry	413	0	8.2	8.4	-0.2	32	0.00
ER	Bihar	4950	0	88.2	76.0	1.0	424	0.00
	DVC	3208	0	67.9	-60.8	-1.3	294	0.00
	Jharkhand	1437	0	25.9	19.6	-0.9	104	0.34
	Odisha	4465	0	90.9	18.2	0.6	450	0.00
	West Bengal	8196	0	151.4	21.7	-1.3	343	0.00
	Sikkim	89	0	1.3	1.6	-0.3	23	0.00
NER	Arunachal Pradesh	129	1	2.2	2.3	-0.2	68	0.01
	Assam	1519	100	25.2	20.9	0.0	90	0.90
	Manipur	196	1	2.6	2.7	-0.1	26	0.01
	Meghalaya	354	0	6.6	5.5	0.3	30	0.00
	Mizoram	110	1	1.7	1.5	0.0	22	0.01
	Nagaland	141	2	2.3	2.1	0.0	9	0.01
	Tripura	248	1	4.4	3.7	-0.8	26	0.00

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

	Bhutan	Nepal	Bangladesh
Actual (MU)	7.7	-15.1	-20.2
Day Peak (MW)	508.0	-733.8	-869.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	203.1	-256.2	219.2	-163.9	-2.3	0.0
Actual(MU)	198.1	-258.4	216.7	-162.4	-2.4	-8.4
O/D/U/D(MU)	-5.0	-2.2	-2.5	1.5	-0.1	-8.4

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL	% Share
Central Sector	5790	16548	7132	948	439	30857	45
State Sector	13132	13597	8457	3001	11	38198	55
Total	18922	30145	15589	3949	450	69054	100

G. Sourcewise generation (MU)

	NR	WR	SR	ER	NER	All India	% Share
Coal	590	1373	583	581	14	3140	77
Lignite	22	11	43	0	0	76	2
Hvdro	109	40	92	40	9	291	7
Nuclear	26	16	47	0	0	89	2
Gas, Naptha & Diesel	25	48	13	0	29	116	3
RES (Wind, Solar, Biomass & Others)	73	89	191	5	0	358	9
Total	845	1578	968	626	53	4070	100

Share of RES in total generation (%)	8.59	5.62	19.76	0.82	0.40	8.79
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	24.64	9.21	34.04	7.28	17.93	18.14

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.040
Based on State Max Demands	1.085

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: 16-Mar-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	0	0.0	0.0	0.0	
2	HVDC	PUSAULI B/B	-	0	249	0.0	6.0	-6.0	
3	765 kV	GAYA-VARANASI	2	0	820	0.0	14.8	-14.8	
4	765 kV	SASARAM-FATEHPUR	1	0	396	0.0	7.0	-7.0	
5	765 kV	GAYA-BALIA	1	0	463	0.0	7.8	-7.8	
6	400 kV	PUSAULI-VARANASI	1	0	192	0.0	4.0	-4.0	
7	400 kV	PUSAULI-ALLAHABAD	1	0	108	0.0	2.0	-2.0	
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	0	863	0.0	12.9	-12.9	
9	400 kV	PATNA-BALIA	4	0	1052	0.0	19.9	-19.9	
10	400 kV	BIHARSHARIFF-BALIA	2	0	448	0.0	7.0	-7.0	
11	400 kV	MOTHARI-GORAKHPUR	2	0	323	0.0	6.7	-6.7	
12	400 kV	BIHARSHARIFF-VARANASI	2	0	324	0.0	4.5	-4.5	
13	220 kV	PUSAULI-SAHUPURI	1	36	92	0.0	1.0	-1.0	
14	132 kV	SONE NAGAR-RIHAND	1	0	0	0.0	0.0	0.0	
15	132 kV	GARWAH-RIHAND	1	20	0	0.3	0.0	0.3	
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	0.3	93.7	-93.4
<b>Import/Export of ER (With WR)</b>									
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	623	137	7.9	0.0	7.9	
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	590	836	0.0	4.0	-4.0	
3	765 kV	JHARSUGUDA-DURG	2	0	308	0.0	4.9	-4.9	
4	400 kV	JHARSUGUDA-RAIGARH	4	0	477	0.0	7.5	-7.5	
5	400 kV	RANCHI-SIPAT	2	106	289	0.0	2.6	-2.6	
6	220 kV	BUDHIPADAR-RAIGARH	1	0	148	0.0	2.7	-2.7	
7	220 kV	BUDHIPADAR-KORBA	2	36	41	0.0	0.1	-0.1	
						ER-WR	7.9	21.9	-14.0
<b>Import/Export of ER (With SR)</b>									
1	HVDC	JEYPORE-GAZUWAKA B/B	2	0	375	0.0	8.5	-8.5	
2	HVDC	TALCHER-KOLAR BIPOLE	2	0	2473	0.0	49.6	-49.6	
3	765 kV	ANGUL-SRIKAKULAM	2	0	3111	0.0	62.0	-62.0	
4	400 kV	TALCHER-I/C	2	275	666	0.0	4.5	-4.5	
5	220 kV	BALIMELA-UPPER-SILERRU	1	1	0	0.0	0.0	0.0	
						ER-SR	0.0	120.0	-120.0
<b>Import/Export of ER (With NER)</b>									
1	400 kV	BINAGURI-BONGAIGAOON	2	325	0	4.8	0.0	4.8	
2	400 kV	ALIPURDUAR-BONGAIGAOON	2	561	0	7.5	0.0	7.5	
3	220 kV	ALIPURDUAR-SALAKATI	2	85	0	1.3	0.0	1.3	
						ER-NER	13.5	0.0	13.5
<b>Import/Export of NER (With NR)</b>									
1	HVDC	BISWANATH CHARIALI-AGRA	2	466	0	11.6	0.0	11.6	
						NER-NR	11.6	0.0	11.6
<b>Import/Export of WR (With NR)</b>									
1	HVDC	CHAMPA-KURUKSHETRA	2	0	1501	0.0	32.1	-32.1	
2	HVDC	VINDHYACHAL B/B	-	240	0	6.0	0.0	6.0	
3	HVDC	MUNDRA-MOHINDERGARH	2	0	983	0.0	24.2	-24.2	
4	765 kV	GWALIOR-AGRA	2	0	2241	0.0	34.5	-34.5	
5	765 kV	PHAGI-GWALIOR	2	0	1426	0.0	27.0	-27.0	
6	765 kV	JABALPUR-ORAI	2	904	744	0.0	26.9	-26.9	
7	765 kV	GWALIOR-ORAI	1	665	0	6.2	0.0	6.2	
8	765 kV	SATNA-ORAI	1	0	1344	0.0	26.5	-26.5	
9	765 kV	CHITORGARH-BANASKANTHA	2	834	101	7.9	0.0	7.9	
10	400 kV	ZERDA-KANKROLI	1	230	0	3.1	0.0	3.1	
11	400 kV	ZERDA-BHINMAL	1	286	57	2.3	0.0	2.3	
12	400 kV	VINDHYACHAL-RIHAND	1	986	0	22.5	0.0	22.5	
13	400 kV	RAPP-SHUALPUR	2	0	447	0.0	5.0	-5.0	
14	220 kV	BHANPURA-RANPUR	2	16	72	0.0	0.5	-0.5	
15	220 kV	BHANPURA-MORAK	1	0	30	0.0	1.2	-1.2	
16	220 kV	MEHGAON-AURAIYA	1	134	0	1.7	0.0	1.7	
17	220 kV	MALANPUR-AURAIYA	1	87	9	1.7	0.0	1.7	
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	50.4	177.9	-127.5
<b>Import/Export of WR (With SR)</b>									
1	HVDC	BHADRAWATI B/B	-	0	1019	0.0	23.4	-23.4	
2	HVDC	RAIGARH-PTGALUR	2	0	1516	0.0	52.3	-52.3	
3	765 kV	SOLAPUR-RAICHUR	2	0	2214	0.0	32.3	-32.3	
4	765 kV	WARDHA-NIZAMABAD	2	0	3395	0.0	55.4	-55.4	
5	400 kV	KOLHAPUR-KUDGI	2	1032	0	16.7	0.0	16.7	
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	84	1.7	0.0	1.7	
						WR-SR	18.4	163.4	-145.0

INTERNATIONAL EXCHANGES

State	Region	Line Name	Max (MW)	Min (MW)	Avg (MW)	Energy Exchange (MU)
BHUTAN	ER	400kV MANGDECHHU-ALIPURDUAR 1&2 i.e. ALIPURDUAR RECEIPT (from MANGDECHHU HEP 4*180MW)	272	0	171	4.1
	ER	400kV TALA-BINAGURI L2,4 (& 400kV MALBASE - BINAGURI) i.e. BINAGURI RECEIPT (from TALA HEP (6*170MW))	157	0	136	3.3
	ER	220kV CHUKHA-BIRPARA 1&2 (& 220kV MALBASE - BIRPARA) i.e. BIRPARA RECEIPT (from CHUKHA HEP 4*84MW)	31	8	-9	-0.2
	NER	132KV-GEYLEGPHU - SALAKATI	40	8	21	0.5
	NER	132kV Motanga-Rangia	9	0	2	0.0
NEPAL	NR	132KV-TANAKPUR(NH) - MAHENDRANAGAR(PG)	-77	0	-75	-1.8
	ER	400KV-MUZAFFARPUR - DHALKEBAR DC	-379	-286	-337	-8.1
	ER	132KV-BIHAR - NEPAL	-278	-44	-216	-5.2

BANGLADESH	ER	BHERAMARA HVDC(BANGLADESH)	-742	-720	-734	-17.6
	NER	132KV-SURAJMANI NAGAR - COMILLA(BANGLADESH)-1	63	0	-54	-1.3
	NER	132KV-SURAJMANI NAGAR - COMILLA(BANGLADESH)-2	64	0	-54	-1.3