



**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: 19<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 18.03.2021.**

महोदय/Dear Sir,

आई०ई०जी०सी०-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 18-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 18<sup>th</sup> March 2021, 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: 19-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)	47659	55477	47315	21917	2688	175056
Peak Shortage (MW)	1415	0	0	313	39	1767
Energy Met (MU)	1042	1344	1199	458	47	4090
Hydro Gen (MU)	105	53	101	34	10	304
Wind Gen (MU)	10	46	35	-	-	91
Solar Gen (MU)*	39.99	31.40	101.37	5.15	0.17	178
Energy Shortage (MU)	20.87	0.00	0.00	0.94	1.19	23.00
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	50220	59506	57597	22205	2754	184209
Time Of Maximum Demand Met (From NLDC SCADA)	19:35	11:29	10:50	19:37	18:27	10:50

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	0.044	0.00	1.44	8.02	9.45	79.64	10.90

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	6368	0	133.1	57.0	-0.5	120	1.48
	Haryana	6533	28	140.7	94.0	2.0	313	0.30
	Rajasthan	11461	1105	236.8	72.6	2.0	403	8.73
	Delhi	3532	0	70.0	54.2	-1.5	117	0.00
	UP	18549	0	339.7	119.7	-2.7	195	0.00
	Uttarakhand	1941	0	37.9	23.3	0.4	258	0.36
	HP	1633	0	31.2	23.9	2.4	342	0.00
	J&K(UT) & Ladakh(UT)	2437	500	49.3	43.0	-0.3	236	10.00
	Chandigarh	180	0	3.3	3.2	0.1	24	0.00
WR	Chhattisgarh	4624	0	110.2	53.4	0.1	276	0.00
	Gujarat	18282	0	393.5	154.9	2.1	431	0.00
	MP	11204	0	227.8	122.6	-2.2	279	0.00
	Maharashtra	25513	0	553.5	161.6	-0.1	589	0.00
	Goa	574	0	12.6	11.8	0.3	75	0.00
	DD	347	0	7.8	7.7	0.1	44	0.00
	DNH	880	0	20.5	20.6	-0.1	47	0.00
	AMNSIL	823	0	18.0	2.1	-0.1	266	0.00
	Andhra Pradesh	10976	0	215.3	77.2	-0.1	459	0.00
SR	Telangana	13463	0	273.9	147.6	1.0	665	0.00
	Karnataka	13679	0	265.6	107.7	4.9	1264	0.00
	Kerala	4240	0	87.5	56.4	0.2	259	0.00
	Tamil Nadu	15944	0	348.9	216.9	-0.9	569	0.00
	Puducherry	404	0	8.2	8.5	-0.3	26	0.00
ER	Bihar	4761	0	94.8	82.1	5.1	553	0.00
	DVC	3330	0	69.6	-64.9	0.3	514	0.00
	Jharkhand	1399	0	26.8	19.1	-0.9	134	0.94
	Odisha	4799	0	100.4	29.4	-0.3	366	0.00
	West Bengal	8398	0	165.0	23.7	-0.3	527	0.00
NER	Sikkim	85	0	1.2	1.7	-0.5	63	0.00
	Arunachal Pradesh	124	3	2.3	2.3	-0.1	25	0.01
	Assam	1695	33	28.4	23.5	0.8	143	0.84
	Manipur	205	4	2.7	2.6	0.1	36	0.01
	Meghalaya	343	0	5.7	3.2	0.4	51	0.31
	Mizoram	102	2	1.6	1.5	-0.1	9	0.01
	Nagaland	152	4	2.2	2.1	-0.1	19	0.01
	Tripura	255	5	4.1	3.3	-0.2	38	0.00

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

	Bhutan	Nepal	Bangladesh
Actual (MU)	4.5	-15.5	-20.7
Day Peak (MW)	208.0	-719.8	-904.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	210.1	-263.4	198.7	-147.4	2.0	0.0
Actual(MU)	207.1	-272.1	201.0	-141.1	1.8	-3.4
O/D/U/D(MU)	-3.1	-8.7	2.3	6.3	-0.2	-3.4

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL	% Share
Central Sector	6061	15958	6342	968	772	30101	45
State Sector	12927	13302	7207	2901	11	36348	55
Total	18988	29260	13549	3869	783	66448	100

G. Sourcewise generation (MU)

	NR	WR	SR	ER	NER	All India	% Share
Coal	594	1421	644	591	18	3268	78
Lignite	25	8	38	0	0	71	2
Hydro	105	53	101	34	10	304	7
Nuclear	26	15	44	0	0	86	2
Gas, Naptha & Diesel	31	44	16	0	24	114	3
RES (Wind, Solar, Biomass & Others)	76	78	172	5	0	332	8
Total	858	1620	1014	630	51	4174	100

Share of RES in total generation (%)	8.88	4.84	16.92	0.82	0.33	7.94
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	24.23	9.08	31.24	6.23	19.26	17.28

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.044
Based on State Max Demands	1.082

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: 19-Mar-2021		
						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	248	0.0	6.3	-6.3
3	765 kV	GAYA-VARANASI	2	0	976	0.0	16.1	-16.1
4	765 kV	SASARAM-FATEHPUR	1	0	341	0.0	5.8	-5.8
5	765 kV	GAYA-BALIA	1	0	533	0.0	3.7	-3.7
6	400 kV	PUSAULI-VARANASI	1	31820	201	0.0	4.6	-4.6
7	400 kV	PUSAULI -ALLAHABAD	1	0	80	0.0	1.5	-1.5
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	0	782	0.0	9.7	-9.7
9	400 kV	PATNA-BALIA	4	0	1228	0.0	22.4	-22.4
10	400 kV	BIHARSHARIFF-BALIA	2	0	431	0.0	5.7	-5.7
11	400 kV	MOTHARI-GORAKHPUR	2	0	372	0.4	6.5	-6.2
12	400 kV	BIHARSHARIFF-VARANASI	2	0	279	0.0	4.4	-4.4
13	220 kV	PUSAULI-SAHUPURI	1	21	108	0.0	1.1	-1.1
14	132 kV	SONE NAGAR-RIHAND	1	0	0	0.0	0.0	0.0
15	132 kV	GARWAH-RIHAND	1	20	0	0.4	0.0	0.4
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	0.7	-87.2
<b>Import/Export of ER (With WR)</b>								
1	765 kV	JHARSGUDA-DHARAMJAIGARH	4	939	0	10.7	0.0	10.7
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	712	812	0.1	0.0	0.1
3	765 kV	JHARSGUDA-DURG	2	0	414	0.0	4.6	-4.6
4	400 kV	JHARSGUDA-RAIGARH	4	0	415	0.0	5.8	-5.8
5	400 kV	RANCHI-SIPAT	2	139	290	0.0	1.6	-1.6
6	220 kV	BUDHIPADAR-RAIGARH	1	0	169	0.0	3.2	-3.2
7	220 kV	BUDHIPADAR-KORBA	2	86	11	0.9	0.0	0.9
						ER-WR	11.7	-3.4
<b>Import/Export of ER (With SR)</b>								
1	HVDC	JEYPORE-GAZIWAKA B/B	2	0	380	0.0	8.7	-8.7
2	HVDC	TALCHER-KOLAR BIPOLE	2	0	2479	0.0	47.4	-47.4
3	765 kV	ANGUL-SRIKAKULAM	2	0	2930	0.0	56.3	-56.3
4	400 kV	TALCHER-UC	2	267	648	0.0	2.4	-2.4
5	220 kV	BALIMELA-UPPER-SILERRU	1	1	0	0.0	0.0	0.0
						ER-SR	0.0	-112.3
<b>Import/Export of ER (With NER)</b>								
1	400 kV	BINAGURI-BONGAIGAON	2	224	0	2.9	0.0	2.9
2	400 kV	ALIPURDUAR-BONGAIGAON	2	427	0	6.2	0.0	6.2
3	220 kV	ALIPURDUAR-SALAKATI	2	61	0	0.9	0.0	0.9
						ER-NER	10.0	10.0
<b>Import/Export of NER (With NR)</b>								
1	HVDC	BISWANATH CHARIALL-AGRA	2	466	0	11.7	0.0	11.7
						NER-NR	11.7	0.0
<b>Import/Export of WR (With NR)</b>								
1	HVDC	CHAMPA-KURUKSHETRA	2	0	751	0.0	36.5	-36.5
2	HVDC	VINDHYACHAL B/B	-	240	56	2.7	0.0	2.7
3	HVDC	MUNDRAL-MOHINDERGARH	2	0	983	0.0	24.2	-24.2
4	765 kV	GWALIOR-AGRA	2	0	2613	0.0	37.4	-37.4
5	765 kV	PHAGI-GWALIOR	2	0	1510	0.0	28.6	-28.6
6	765 kV	JABALPUR-ORAI	2	0	1028	0.0	33.4	-33.4
7	765 kV	GWALIOR-ORAI	1	595	0	11.7	0.0	11.7
8	765 kV	SATNA-ORAI	1	0	1400	0.0	28.3	-28.3
9	765 kV	CHITORGARH-BANASKANTHA	2	757	41	9.5	0.0	9.5
10	400 kV	ZERDA-KANKROLI	1	227	0	3.5	0.0	3.5
11	400 kV	ZERDA-BHINMAL	1	300	0	3.9	0.0	3.9
12	400 kV	VINDHYACHAL-RIHAND	1	987	0	22.8	0.0	22.8
13	400 kV	RAPP-SIHUALPUR	2	0	560	0.0	6.2	-6.2
14	220 kV	BHANPIRA-RANPUR	1	13	80	0.0	0.7	-0.7
15	220 kV	BHANPIRA-MORAK	1	0	30	0.0	0.3	-0.3
16	220 kV	MEHGAON-AURAIYA	1	130	0	1.5	0.0	1.5
17	220 kV	MALANPUR-AURAIYA	1	80	28	0.5	0.0	0.5
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	-139.6
<b>Import/Export of WR (With SR)</b>								
1	HVDC	BHADRAWATI B/B	-	0	1016	0.0	23.5	-23.5
2	HVDC	RAIGARH-PUGALUR	2	0	1512	0.0	52.6	-52.6
3	765 kV	SOLAPUR-RAICHUR	2	30	2273	0.0	28.9	-28.9
4	765 kV	WARDHA-NIZAMABAD	2	0	3016	0.0	51.4	-51.4
5	400 kV	KOLHAPUR-KUDGI	2	1208	0	18.7	0.0	18.7
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	86	1.8	0.0	1.8
						WR-SR	20.5	-136.0
<b>INTERNATIONAL EXCHANGES</b>								
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)	135	0	133	3.2		
	ER	400KV TALA-BINAGURI 1,2,4 (& 400KV MALBASE - BINAGURI) i.e. BINAGURI RECEIPT (from TALA HEP (6*170MW))	88	82	83	2.0		
	ER	220KV CHUKHA-BIRPARA 1&2 (& 220KV MALBASE - BIRPARA) i.e. BIRPARA RECEIPT (from CHUKHA HEP 4*84MW)	0	0	0	-0.7		
	NER	132KV-GEYLEGPHU - SALAKATI	-36	-17	25	0.6		
	NER	132KV Motanga-Rangia	22	0	-8	-0.2		
NEPAL	NR	132KV-TANAKPUR(NH) - MAHENDRANAGAR(PG)	-76	0	-76	-1.8		
	ER	400KV-MUZAFFARPUR - DHALKEBAR DC	-349	-264	-332	-8.0		
	ER	132KV-BIHAR - NEPAL	-295	-127	-238	-5.7		
BANGLADESH	ER	BHERAMARA HVDC(BANGLADESH)	-730	-722	-723	-17.3		
	NER	132KV-SURAJMANI NAGAR - COMILLA(BANGLADESH)-1	87	0	-70	-1.7		
	NER	132KV-SURAJMANI NAGAR - COMILLA(BANGLADESH)-2	87	0	-70	-1.7		