



**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: 29<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 28.03.2021.**

महोदय/Dear Sir,

आई०ई०जी०सी०-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 28-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 28<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: 29-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)	41817	51557	43929	21067	2530	160900
Peak Shortage (MW)	400	0	0	0	31	431
Energy Met (MU)	944	1305	1175	462	46	3932
Hydro Gen (MU)	102	48	67	32	4	253
Wind Gen (MU)	49	56	23	-	-	128
Solar Gen (MU)*	49.51	38.46	99.80	5.40	0.16	193
Energy Shortage (MU)	7.60	0.00	0.00	0.00	0.84	8.44
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	44612	57907	54532	21181	2768	175244
Time Of Maximum Demand Met (From NLDC SCADA)	19:13	15:51	12:27	19:20	18:19	09:55

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	0.025	0.00	0.00	0.81	0.81	76.15	23.04

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	6224	0	133.2	62.6	-1.0	110	0.00
	Haryana	5252	0	112.7	70.6	0.0	192	0.00
	Rajasthan	10225	0	199.7	1.7	0.4	722	0.00
	Delhi	3159	0	65.0	48.9	-0.6	134	0.00
	UP	16914	0	321.3	140.6	-1.3	555	0.00
	Uttarakhand	1745	0	33.8	26.4	0.3	120	0.00
	HP	1418	0	27.2	20.8	0.0	127	0.00
	J&K(UT) & Ladakh(UT)	2368	400	47.7	41.8	-1.4	153	7.60
WR	Chhattisgarh	162	0	3.0	3.0	0.0	11	0.00
	Gujarat	4552	0	109.3	51.1	0.1	174	0.00
	Maharashtra	17327	0	373.0	143.1	1.4	1152	0.00
	MP	10847	0	223.6	123.9	-0.5	458	0.00
	Goa	24622	0	543.5	174.7	2.1	635	0.00
	DD	527	0	11.7	11.5	-0.2	40	0.00
	DNH	319	0	7.0	6.9	0.1	25	0.00
	AMNSIL	837	0	19.3	19.3	0.0	54	0.00
SR	Andhra Pradesh	781	0	17.6	1.2	0.2	266	0.00
	Telangana	11152	0	218.7	101.9	2.0	983	0.00
	Karnataka	13309	0	277.1	141.6	0.7	656	0.00
	Kerala	13264	0	259.2	100.0	1.7	730	0.00
	Tamil Nadu	3707	0	77.5	57.8	0.5	196	0.00
	Puducherry	14494	0	334.2	227.4	-1.5	417	0.00
ER	Bihar	372	0	8.1	8.0	0.1	39	0.00
	DVC	4961	0	98.7	87.4	1.4	463	0.00
	Jharkhand	3182	0	71.4	-50.8	-0.4	284	0.00
	Odisha	1543	0	29.4	23.8	-1.9	111	0.00
	West Bengal	4385	0	92.5	33.6	0.3	363	0.00
	Sikkim	8086	0	169.3	30.5	-0.3	472	0.00
NER	Arunachal Pradesh	66	0	0.9	1.1	-0.2	23	0.00
	Assam	125	2	2.2	2.4	-0.3	31	0.01
	Manipur	1559	48	27.1	22.1	0.1	110	0.80
	Meghalaya	171	3	2.6	2.6	0.0	22	0.01
	Mizoram	343	0	5.9	4.8	-0.1	33	0.00
	Nagaland	110	4	1.5	1.4	-0.2	19	0.01
	Tripura	127	2	2.2	1.9	0.2	24	0.01
		269	5	4.0	3.4	0.0	70	0.00

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

	Bhutan	Nepal	Bangladesh
Actual (MU)	3.4	-11.4	-22.1
Day Peak (MW)	203.0	-510.0	-1024.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	120.1	-261.1	250.0	-121.8	12.8	0.0
Actual(MU)	101.1	-252.8	259.6	-131.0	13.8	-9.3
OD/UD(MU)	-19.1	8.3	9.6	-9.2	1.0	-9.3

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL	% Share
Central Sector	4599	14133	7192	758	1222	27903	41
State Sector	14312	14905	7636	3500	11	40364	59
Total	18911	29038	14828	4258	1233	68267	100

G. Sourcewise generation (MU)

	NR	WR	SR	ER	NER	All India	% Share
Coal	543	1373	615	589	9	3128	78
Lignite	22	10	38	0	0	70	2
Hydro	102	48	67	32	4	253	6
Nuclear	27	25	41	0	0	93	2
Gas, Naptha & Diesel	27	33	16	0	24	99	2
RES (Wind, Solar, Biomass & Others)	126	96	157	5	0	385	10
Total	845	1586	934	626	38	4029	100

Share of RES in total generation (%)	14.96	6.04	16.83	0.87	0.42	9.55
Share of Non-fossil fuel (Hydro, Nuclear and RES) in total generation(%)	30.13	10.67	28.44	6.00	11.99	18.16

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.033
Based on State Max Demands	1.076

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: 29-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	248	0.0	6.0	-6.0	
3	765 kV	GAYA-VARANASI	2	0	652	0.0	9.6	-9.6	
4	765 kV	SASARAM-EATEHPUR	1	0	233	0.0	2.9	-2.9	
5	765 kV	GAYA-BALIA	1	0	385	0.0	5.9	-5.9	
6	400 kV	PUSAULI-VARANASI	1	0	251	0.0	4.1	-4.1	
7	400 kV	PUSAULI-ALLAHABAD	1	0	109	0.0	1.9	-1.9	
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	159	555	0.0	4.2	-4.2	
9	400 kV	PATNA-BALIA	4	0	1059	0.0	18.4	-18.4	
10	400 kV	BIHARSHARIFF-BALIA	2	82	230	0.0	1.8	-1.8	
11	400 kV	MOTIHARI-GORAKHPUR	2	0	231	0.0	2.3	-2.3	
12	400 kV	BIHARSHARIFF-VARANASI	2	0	281	0.0	3.3	-3.3	
13	220 kV	PUSAULI-SAHUPURI	1	30	104	0.0	1.2	-1.2	
14	132 kV	SONWAHRIHAND	1	0	0	0.0	0.0	0.0	
15	132 kV	GARWAHRIHAND	1	20	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-CHANDAULI	1	0	0	0.0	0.0	0.0	
						ER-NR	0.5	61.7	-61.2
<b>Import/Export of ER (With WR)</b>									
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	1377	0	24.6	0.0	24.6	
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	592	563	0.0	2.1	-2.1	
3	765 kV	JHARSUGUDA-DURG	2	7	235	0.0	3.0	-3.0	
4	400 kV	JHARSUGUDA-RAIGARH	4	0	358	0.0	4.9	-4.9	
5	400 kV	RANCHI-SIPAT	2	138	213	0.0	1.4	-1.4	
6	220 kV	BUDHIPADAR-RAIGARH	1	0	154	0.0	2.6	-2.6	
7	220 kV	BUDHIPADAR-KORBA	2	137	0	2.1	0.0	2.1	
						ER-WR	26.7	13.9	12.7
<b>Import/Export of ER (With SR)</b>									
1	HVDC	JEYPORE-GAZUWAKA B/B	2	0	353	0.0	8.6	-8.6	
2	HVDC	TALCHER-KOLAR BIPOLE	2	0	2469	0.0	51.6	-51.6	
3	765 kV	ANGUL-SRIKAKULAM	2	0	3458	0.0	70.0	-70.0	
4	400 kV	TALCHER-I/C	2	0	691	0.0	7.6	-7.6	
5	220 kV	BALMELA-UPPER-SILERRU	1	1	0	0.0	0.0	0.0	
						ER-SR	0.0	130.2	-130.2
<b>Import/Export of ER (With NER)</b>									
1	400 kV	BINAGURI-BONGAIGAON	2	116	225	0.0	1.1	-1.1	
2	400 kV	ALIPURDUAR-BONGAIGAON	2	205	305	0.0	1.4	-1.4	
3	220 kV	ALIPURDUAR-SALAKATI	2	19	36	0.0	0.1	-0.1	
						ER-NER	0.0	2.6	-2.6
<b>Import/Export of NER (With NR)</b>									
1	HVDC	BISWANATH CHARIALL-AGRA	2	471	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	0	0.0	25.3	-25.3	
2	HVDC	VINDHYACHAL B/B	-	227	0	6.0	0.0	6.0	
3	HVDC	MUNDA-MOHINDERGARH	2	0	984	0.0	18.0	-18.0	
4	765 kV	GWALIOR-AGRA	2	0	2275	0.0	34.2	-34.2	
5	765 kV	PHAGI-GWALIOR	2	0	835	0.0	12.5	-12.5	
6	765 kV	JABALPUR-ORAI	2	386	677	0.0	18.0	-18.0	
7	765 kV	GWALIOR-ORAI	1	494	0	9.4	0.0	9.4	
8	765 kV	SATNA-ORAI	1	0	1356	0.0	26.9	-26.9	
9	765 kV	CHITORGARH-BANASKANTHA	2	1201	122	12.5	0.0	12.5	
10	400 kV	ZERDA-KANKROLI	1	377	0	5.8	0.0	5.8	
11	400 kV	ZERDA -BHINMAL	1	730	0	8.6	0.0	8.6	
12	400 kV	VINDHYACHAL -RIHAND	1	966	0	22.3	0.0	22.3	
13	400 kV	RAPP-SHUALPUR	2	272	65	3.1	0.1	2.9	
14	220 kV	BHANPURA-RANPUR	1	66	28	0.6	0.1	0.5	
15	220 kV	BHANPURA-MORAK	1	0	30	1.2	0.0	1.2	
16	220 kV	MEHGAON-AURAIYA	1	131	0	0.9	0.0	0.9	
17	220 kV	MALANPUR-AURAIYA	1	92	1	1.6	0.0	1.6	
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	72.0	135.1	-63.1
<b>Import/Export of WR (With SR)</b>									
1	HVDC	BHADRAWATI B/B	-	0	1023	0.0	23.7	-23.7	
2	HVDC	RAIGARH-PUGALUR	2	0	1653	0.0	70.5	-70.5	
3	765 kV	SOLAPUR-RAICHUR	2	0	2058	0.0	35.0	-35.0	
4	765 kV	WARDHA-NIZAMABAD	2	0	3286	0.0	63.0	-63.0	
5	400 kV	KOLHAPUR-KUDGI	2	840	0	14.0	0.0	14.0	
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	NELDEM-AMBEWADI	1	0	91	1.8	0.0	1.8	
						WR-SR	15.8	192.2	-176.4
<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)	163	0	135	3.2			
	ER	400KV TALA-BINAGURI 1,2,3 (& 400KV MALBASE - BINAGURI) i.e. BINAGURI RECEIPT (from TALA HEP (6*170MW)	42	37	42	1.0			
	ER	220KV CHUKHA-BIRPARA 1&2 & 220KV MALBASE - BIRPARA) i.e. BIRPARA RECEIPT (from CHUKHA HEP 4*84MW)	0	0	0	-0.9			
	NER	132KV-GEYLEGPHU - SALAKATI	27	11	18	0.4			
	NER	132KV Motanga-Rangia	-11	0	-6	-0.2			
NEPAL	NR	132KV-TANAKPUR(NH) - MAHENDRANAGAR(PG)	0	0	0	0.0			
	ER	400KV-MUZAFFARPUR - DHALKEBAR DC	-225	-165	-217	-5.2			
BANGLADESH	ER	132KV-BIHAR - NEPAL	-285	-104	-260	-6.2			
	ER	BHERAMARA HVDC(BANGLADESH)	-859	-735	-774	-18.6			
	NER	132KV-SURAJMANI NAGAR - COMILLA(BANGLADESH)-1	82	0	-73	-1.8			
	NER	132KV-SURAJMANI NAGAR - COMILLA(BANGLADESH)-2	83	0	-73	-1.8			