



**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: 24<sup>th</sup> Feb 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 23.02.2021.**

महोदय/Dear Sir,

आई०ई०जी०सी०-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 23-फरवरी -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 23<sup>rd</sup> February 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:

24-Feb-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)	47028	53392	43873	19288	2534	166115
Peak Shortage (MW)	1170	39	0	0	48	1257
Energy Met (MU)	997	1260	1032	390	43	3722
Hydro Gen (MU)	108	52	84	35	8	286
Wind Gen (MU)	24	25	28	-	-	77
Solar Gen (MU)*	40.82	37.35	112.79	5.43	0.18	197
Energy Shortage (MU)	11.76	0.10	0.00	0.00	0.65	12.51
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	50671	59082	50457	19485	2645	178208
Time Of Maximum Demand Met (From NLDC SCADA)	09:42	11:23	09:08	19:19	17:55	09:18

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	0.30	9.54	9.84	78.15	12.01

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	6404	0	127.6	60.1	-0.3	127	0.00
	Haryana	6602	0	134.8	94.2	1.1	237	0.02
	Rajasthan	13673	0	260.6	79.2	0.7	378	0.00
	Delhi	3539	0	62.1	58.1	-1.2	244	0.00
	UP	16319	0	289.8	85.2	-1.7	356	0.54
	Uttarakhand	2046	0	38.6	20.6	0.7	171	0.00
	HP	1762	0	31.5	25.8	0.8	154	0.00
	J&K(UT) & Ladakh(UT)	2485	550	48.9	44.5	-1.3	151	11.20
	Chandigarh	202	0	3.2	3.3	-0.1	6	0.00
	Chhattisgarh	4298	0	97.1	45.6	0.6	335	0.10
WR	Gujarat	17258	0	359.8	141.1	-6.8	493	0.00
	MP	13162	0	258.0	155.2	-0.4	553	0.00
	Maharashtra	23238	0	489.9	142.5	-1.6	521	0.00
	Goa	470	0	10.1	9.6	-0.1	83	0.00
	DD	344	0	7.6	7.4	0.2	188	0.00
	DNH	862	0	19.7	19.8	-0.1	334	0.00
	AMNSIL	811	0	18.0	1.3	0.4	231	0.00
	Andhra Pradesh	9505	0	185.9	57.6	0.5	700	0.00
SR	Telangana	12964	0	248.6	131.8	0.9	561	0.00
	Karnataka	10636	0	207.1	77.5	-0.7	605	0.00
	Kerala	3900	0	79.4	54.0	-0.1	248	0.00
	Tamil Nadu	14543	0	304.0	187.0	-0.7	504	0.00
	Puducherry	357	0	7.3	7.5	-0.2	37	0.00
ER	Bihar	4579	0	84.3	77.7	1.2	375	0.00
	DVC	2943	0	65.9	-53.1	-0.5	321	0.00
	Jharkhand	1461	0	24.5	19.6	-3.6	114	0.00
	Odisha	4140	0	79.3	3.4	0.9	408	0.00
	West Bengal	6939	0	134.2	5.4	0.1	378	0.00
	Sikkim	95	0	1.4	1.8	-0.4	13	0.00
NER	Arunachal Pradesh	123	2	2.1	2.3	-0.3	37	0.01
	Assam	1511	20	24.7	19.2	0.4	104	0.60
	Manipur	220	3	2.5	2.9	-0.4	44	0.01
	Meghalaya	362	0	6.4	4.4	0.2	42	0.00
	Mizoram	110	4	1.6	1.4	-0.1	21	0.02
	Nagaland	141	2	2.1	2.0	0.0	24	0.01
	Tripura	224	3	3.7	2.2	-0.3	23	0.00

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

	Bhutan	Nepal	Bangladesh
Actual (MU)	5.9	-14.4	-21.3
Day Peak (MW)	328.0	-800.8	-972.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	226.1	-219.4	157.3	-166.0	2.0	0.0
Actual(MU)	216.7	-201.8	149.5	-167.0	2.5	-0.1
OD/UD(MU)	-9.4	17.6	-7.8	-1.1	0.6	-0.1

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL	% Share
Central Sector	7809	17133	7622	1246	794	34603	45
State Sector	12954	14928	10272	3942	11	42107	55
Total	20763	32060	17894	5188	805	76710	100

G. Sourcewise generation (MU)

	NR	WR	SR	ER	NER	All India	% Share
Coal	538	1306	531	548	8	2932	77
Lignite	23	9	37	0	0	69	2
Hydro	108	52	84	35	8	286	7
Nuclear	23	21	47	0	0	91	2
Gas, Naptha & Diesel	18	49	12	0	29	108	3
RES (Wind, Solar, Biomass & Others)	92	63	182	5	0	341	9
Total	802	1500	892	588	45	3827	100
Share of RES in total generation (%)	11.44	4.17	20.35	0.93	0.40	8.92	
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	27.75	9.04	34.99	6.85	16.98	18.76	

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.023
Based on State Max Demands	1.056

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: 24-Feb-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	251	0.0	6.0	-6.0
3	765 kV	GAYA-VARANASI	2	0	962	0.0	13.5	-13.5
4	765 kV	SASARAM-FATEHPUR	1	0	421	0.0	6.6	-6.6
5	765 kV	GAYA-BALIA	1	0	507	0.0	8.1	-8.1
6	400 kV	PUSAULI-VARANASI	1	0	245	0.0	4.6	-4.6
7	400 kV	PUSAULI-ALLAHABAD	1	0	102	0.0	1.4	-1.4
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	0	865	0.0	11.5	-11.5
9	400 kV	PATNA-BALIA	4	0	1151	0.0	20.0	-20.0
10	400 kV	BIHARSHARIFF-BALIA	2	0	527	0.0	8.3	-8.3
11	400 kV	MOTIHARI-GORAKHPUR	2	0	348	0.0	5.7	-5.7
12	400 kV	BIHARSHARIFF-VARANASI	2	0	374	0.0	4.5	-4.5
13	220 kV	PUSAULI-SAHUPURI	1	28	119	0.0	1.1	-1.1
14	132 kV	SONE NAGAR-RIHAND	2	0	0	0.0	0.0	0.0
15	132 kV	GARWAH-RIHAND	1	30	0	0.0	0.0	0.0
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						0.7	91.3	-90.7
<b>Import/Export of ER (With WR)</b>								
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	560	418	3.8	0.0	3.8
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	464	618	0.0	2.5	-2.5
3	765 kV	JHARSUGUDA-DURG	2	0	680	0.0	10.3	-10.3
4	400 kV	JHARSUGUDA-RAIGARH	4	0	501	0.0	7.0	-7.0
5	400 kV	RANCHI-SIPAT	2	62	249	0.0	2.5	-2.5
6	220 kV	BUDHIPADAR-RAIGARH	1	0	172	0.0	2.8	-2.8
7	220 kV	BUDHIPADAR-KORBA	2	41	63	0.1	0.0	0.1
ER-WR						3.8	25.2	-21.4
<b>Import/Export of ER (With SR)</b>								
1	HVDC	JEYPORE-GAZUWAKA B/B	2	0	525	0.0	11.1	-11.1
2	HVDC	TALCHER-KOLAR BIPOLE	2	0	2463	0.0	38.1	-38.1
3	765 kV	ANGUL-SRIKAKULAM	2	0	2773	0.0	53.2	-53.2
4	400 kV	TALCHER-I/C	2	270	1126	0.0	4.7	-4.7
5	220 kV	BALIMELA-UPPER-SILERRU	1	1	0	0.0	0.0	0.0
ER-SR						0.0	102.3	-102.3
<b>Import/Export of ER (With NER)</b>								
1	400 kV	BINAGURI-BONGAIGAON	2	228	21	2.9	0.0	2.9
2	400 kV	ALIPURDUAR-BONGAIGAON	2	406	0	5.0	0.0	5.0
3	220 kV	ALIPURDUAR-SALAKATI	2	54	4	0.7	0.0	0.7
ER-NER						8.6	0.0	8.6
<b>Import/Export of NER (With NR)</b>								
1	HVDC	BISWANATH CHARIALI-AGRA	2	468	0	11.5	0.0	11.5
NER-NR						11.5	0.0	11.5
<b>Import/Export of WR (With NR)</b>								
1	HVDC	CHAMPA-KURUKSHETRA	2	0	1250	0.0	35.7	-35.7
2	HVDC	VINDHYACHAL B/B	-	241	0	5.9	0.0	5.9
3	HVDC	MUNDRA-MOHINDERGARH	2	0	1917	0.0	24.2	-24.2
4	765 kV	GWALIOR-AGRA	2	0	2211	0.0	34.2	-34.2
5	765 kV	PHAGI-GWALIOR	2	0	1216	0.0	20.4	-20.4
6	765 kV	JABALPUR-ORAI	2	0	914	0.0	30.5	-30.5
7	765 kV	GWALIOR-ORAI	1	605	0	11.4	0.0	11.4
8	765 kV	SATNA-ORAI	1	0	1155	0.0	23.2	-23.2
9	765 kV	CHITORGARH-BANASKANTHA	2	408	437	0.0	0.2	-0.2
10	400 kV	ZERDA-KANKROLI	1	171	40	1.9	0.0	1.9
11	400 kV	ZERDA-BHINMAL	1	273	155	1.5	0.0	1.5
12	400 kV	VINDHYACHAL-RIHAND	1	489	0	11.1	0.0	11.1
13	400 kV	RAPP-SHULPUR	2	67	312	0.1	3.2	-3.2
14	220 kV	BHANPURA-RANPUR	1	0	167	0.0	0.0	0.0
15	220 kV	BHANPURA-MORAK	1	0	30	0.0	0.0	0.0
16	220 kV	MERGAON-AURAIYA	1	126	0	2.2	0.0	2.2
17	220 kV	MALANPUR-AURAIYA	1	79	0	1.8	0.0	1.8
18	132 kV	GWALIOR-SAWAI MADHOPUR	1	0	0	0.0	0.0	0.0
19	132 kV	RAIGHAT-LALITPUR	2	0	0	0.0	1.0	-1.0
WR-NR						35.9	174.5	-138.6
<b>Import/Export of WR (With SR)</b>								
1	HVDC	BHADRAWATI B/B	-	0	522	0.0	10.3	-10.3
2	HVDC	RAIGARH-PUGALUR	2	0	1510	0.0	16.6	-16.6
3	765 kV	SOLAPUR-RAICHUR	2	431	1962	0.0	25.7	-25.7
4	765 kV	WARDHA-NIZAMABAD	2	0	3072	0.0	50.2	-50.2
5	400 kV	KOLHAPUR-KUDGI	2	1264	0	16.3	0.0	16.3
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	120	0.0	2.3	-2.3
WR-SR						18.5	102.8	-84.2

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)	121	81	100	2.4
	ER	400kV TALA-BINAGURI 1,2,4 (& 400kV MALBASE - BINAGURI) i.e. BINAGURI RECEIPT (from TALA HEP (6*170MW)	231	76	129	3.1
	ER	230kV CHUKHA-BIRPARA 1&2 (& 230kV MALBASE - BIRPARA) i.e. BIRPARA RECEIPT (from CHUKHA HEP 4*84MW)	18	0	-4	-0.1
	NER	132KV-GEYLEGPHU - SALAKATI	-33	-10	-19	-0.5
	NER	132kV Motanga-Rangh	-9	0	-4	-0.1
NEPAL	NR	132KV-TANAKPUR(NH) - MAHENDRANAGAR(PG)	-81	0	-74	-1.8
	ER	400KV-MUZAFFARPUR - DHALKEBAR DC	-371	-193	-304	-7.3
	ER	132KV-BIHAR - NEPAL	-349	-111	-221	-5.3
BANGLADESH	ER	BHERAMARA HVDC(BANGLADESH)	-853	-635	-788	-18.9
	NER	132KV-SURAJMANI NAGAR - COMILLA(BANGLADESH)-1	60	0	-50	-1.2
	NER	132KV-SURAJMANI NAGAR - COMILLA(BANGLADESH)-2	59	0	-50	-1.2