



**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: 5<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., डोंगतिह, 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 04.02.2021.**

महोदय/Dear Sir,

आईईजीसी-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 04-फरवरी -2021 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 4<sup>th</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: 05-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)	48795	54025	43370	19291	2579	168060
Peak Shortage (MW)	564	35	60	0	27	686
Energy Met (MU)	994	1275	1040	387	45	3740
Hydro Gen (MU)	92	55	75	34	11	267
Wind Gen (MU)	24	39	62	-	-	125
Solar Gen (MU)*	34.02	34.92	109.59	4.60	0.20	183
Energy Shortage (MU)	12.06	0.20	0.18	0.00	0.19	12.63
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	51610	61691	52271	19463	2635	183810
Time Of Maximum Demand Met (From NLDC SCADA)	09:44	11:14	10:50	18:30	18:05	09:49

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	0.036	0.00	0.02	5.46	5.49	71.83	22.69

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	6216	0	120.8	57.4	-1.8	67	0.00
	Haryana	5957	0	125.7	75.7	0.8	294	0.00
	Rajasthan	14150	0	267.9	88.1	2.3	728	0.80
	Delhi	4061	0	68.6	56.6	-0.3	214	0.00
	UP	16290	0	279.5	87.9	-4.3	216	0.00
	Uttarakhand	2230	0	39.9	25.6	-0.3	217	0.00
	HP	1954	61	32.2	26.9	0.2	474	0.06
	J&K(UT) & Ladakh(UT)	2676	550	55.6	50.0	0.8	300	11.20
WR	Chandigarh	244	0	4.1	3.9	0.2	35	0.00
	Chhattisgarh	4375	0	94.4	43.4	1.3	324	0.20
	Gujarat	16893	0	352.9	135.0	-2.3	639	0.00
	MP	14885	0	286.0	182.6	-0.8	627	0.00
	Maharashtra	23854	0	485.8	141.0	-0.8	574	0.00
	Goa	475	0	9.8	9.9	-0.3	40	0.00
	DD	340	0	7.7	7.4	0.3	21	0.00
	DNH	862	0	19.9	19.5	0.4	59	0.00
SR	AMNSIL	817	0	18.4	4.9	0.0	361	0.00
	Andhra Pradesh	10054	0	184.7	80.2	0.1	505	0.00
	Telangana	12649	0	242.0	109.2	0.0	658	0.00
	Karnataka	12536	0	236.6	81.8	0.2	605	0.00
	Kerala	3703	60	74.9	51.4	0.4	184	0.18
	Tamil Nadu	13890	0	294.0	178.2	-1.5	490	0.00
	Puducherry	376	0	7.7	8.0	-0.3	27	0.00
	ER	Bihar	4910	0	89.1	80.7	-1.1	276
DVC		3222	0	68.2	-47.4	-0.1	290	0.00
Jharkhand		1528	0	26.1	19.8	-2.3	115	0.00
Odisha		4438	0	72.3	1.4	-0.5	424	0.00
West Bengal		6660	0	129.3	9.6	-0.5	341	0.00
Sikkim		130	0	1.7	1.9	-0.2	46	0.00
NER	Arunachal Pradesh	145	1	2.3	2.4	-0.1	46	0.01
	Assam	1447	20	25.0	19.3	0.7	130	0.15
	Manipur	220	2	3.1	3.3	-0.2	19	0.01
	Meghalaya	439	0	6.7	4.3	0.3	29	0.00
	Mizoram	120	1	1.7	1.6	-0.2	20	0.01
	Nagaland	128	2	2.5	2.1	0.3	12	0.01
Tripura	226	2	3.2	2.7	-0.7	18	0.00	

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

	Bhutan	Nepal	Bangladesh
Actual (MU)	4.5	-14.3	-12.6
Day Peak (MW)	328.0	-693.0	-550.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	237.8	-223.1	130.8	-146.0	0.6	0.0
Actual(MU)	230.5	-220.6	127.2	-146.3	1.1	-7.9
O/D/U/D(MU)	-7.3	2.6	-3.6	-0.2	0.6	-7.9

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL	% Share
Central Sector	6124	13868	6662	1345	534	28532	42
State Sector	9311	15573	9967	4135	11	38996	58
Total	15435	29440	16629	5480	545	67528	100

G. Sourcewise generation (MU)

	NR	WR	SR	ER	NER	All India	% Share
Coal	546	1321	536	524	7	2934	77
Lignite	24	8	45	0	0	76	2
Hydro	92	55	75	34	11	267	7
Nuclear	18	16	45	0	0	79	2
Gas, Naptha & Diesel	22	30	13	0	30	95	2
RES (Wind, Solar, Biomass & Others)	85	75	208	5	0	372	10
Total	786	1505	922	563	48	3824	100
Share of RES in total generation (%)	10.78	4.97	22.57	0.83	0.41	9.74	
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	24.75	9.67	35.61	6.92	22.59	18.78	

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.021
Based on State Max Demands	1.051

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: 05-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	249	0.0	6.0	-6.0	
3	765 kV	GAYA-VARANASI	2	0	943	0.0	13.0	-13.0	
4	765 kV	SASARAM-FATEHPUR	1	36	404	0.0	4.6	-4.6	
5	765 kV	GAYA-BALIA	1	0	554	0.0	8.5	-8.5	
6	400 kV	PUSAULI-VARANASI	1	0	212	0.0	4.4	-4.4	
7	400 kV	PUSAULI-ALLAHABAD	1	0	107	0.0	1.6	-1.6	
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	0	797	0.0	11.4	-11.4	
9	400 kV	PATNA-BALIA	4	0	1123	0.0	17.9	-17.9	
10	400 kV	BIHARSHARIFF-BALIA	2	0	438	0.0	6.5	-6.5	
11	400 kV	MOTIHARI-GORAKHPUR	2	0	360	0.0	6.1	-6.1	
12	400 kV	BIHARSHARIFF-VARANASI	2	67	279	0.0	2.5	-2.5	
13	220 kV	PUSAULI-SAHUPURI	1	0	102	0.0	1.5	-1.5	
14	132 kV	SONE NAGAR-RIHAND	1	0	0	0.0	0.0	0.0	
15	132 kV	GARWAH-RIHAND	1	20	0	0.7	0.0	0.7	
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	83.9	-83.2
<b>Import/Export of ER (With WR)</b>									
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	723	32349	4.4	0.0	4.4	
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	790	544	2.5	0.0	2.5	
3	765 kV	JHARSUGUDA-DURG	2	0	491	0.0	5.7	-5.7	
4	400 kV	JHARSUGUDA-RAIGARH	4	0	481	0.0	5.2	-5.2	
5	400 kV	RANCHI-SIPAT	2	214	249	0.1	0.0	0.1	
6	220 kV	BUDHIPADAR-RAIGARH	1	0	134	0.0	1.7	-1.7	
7	220 kV	BUDHIPADAR-KORBA	2	143	19	1.4	0.0	1.4	
						ER-WR	8.4	12.6	-4.2
<b>Import/Export of ER (With SR)</b>									
1	HVDC	JEYPORE-GAZUWAKA B/B	2	0	535	0.0	12.2	-12.2	
2	HVDC	TALCHER-KOLAR BIPOLE	2	0	1636	0.0	35.7	-35.7	
3	765 kV	ANGUL-SRIKAKULAM	2	0	3109	0.0	55.6	-55.6	
4	400 kV	TALCHER-I/C	2	239	299	0.0	2.7	-2.7	
5	220 kV	BALIMELA-UPPER-SILERRU	1	1	0	0.0	0.0	0.0	
						ER-SR	0.0	103.5	-103.5
<b>Import/Export of ER (With NER)</b>									
1	400 kV	BINAGURI-BONGAIGAON	2	188	136	1.6	0.0	1.6	
2	400 kV	ALIPURDUAR-BONGAIGAON	2	331	38	2.7	0.0	2.7	
3	220 kV	ALIPURDUAR-SALAKATI	2	57	13	0.5	0.0	0.5	
						ER-NER	4.7	0.0	4.7
<b>Import/Export of NER (With NR)</b>									
1	HVDC	BISWANATH CHARIALI-AGRA	2	288	0	7.0	0.0	7.0	
						NER-NR	7.0	0.0	7.0
<b>Import/Export of WR (With NR)</b>									
1	HVDC	CHAMPA-KURUKSHETRA	2	0	501	0.0	33.1	-33.1	
2	HVDC	VINDHYACHAL B/B	-	240	0	6.0	0.0	6.0	
3	HVDC	MUNDRA-MOHINDERGARH	2	0	1739	0.0	41.6	-41.6	
4	765 kV	GWALIOR-AGRA	2	0	2806	0.0	38.8	-38.8	
5	765 kV	PHAGI-GWALIOR	2	0	1590	0.0	24.1	-24.1	
6	765 kV	JABALPUR-ORAI	2	0	1104	0.0	33.4	-33.4	
7	765 kV	GWALIOR-ORAI	1	714	0	11.6	0.0	11.6	
8	765 kV	SATNA-ORAI	1	0	1356	0.0	25.5	-25.5	
9	765 kV	CHITORGARH-BANASKANTHA	2	647	597	5.3	0.0	5.3	
10	400 kV	ZERDA-KANKROLI	1	220	57	2.5	0.0	2.5	
11	400 kV	ZERDA-BHINMAL	1	298	179	0.0	1.4	-1.4	
12	400 kV	VINDHYACHAL -RIHAND	1	498	0	11.3	0.0	11.3	
13	400 kV	RAPP-SHUJALPUR	2	95	434	0.2	3.8	-3.6	
14	220 kV	BHANPURA-RANPUR	1	19	148	0.0	0.3	-0.3	
15	220 kV	BHANPURA-MORAK	1	0	30	0.0	0.7	-0.7	
16	220 kV	MEHGAON-AURAIYA	1	128	0	1.5	1.8	-0.3	
17	220 kV	MALANPUR-AURAIYA	1	82	14	1.0	0.0	1.0	
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	0.9	-0.9	
						WR-NR	39.4	205.4	-166.0
<b>Import/Export of WR (With SR)</b>									
1	HVDC	BHADRAWATI B/B	-	0	1009	0.0	10.2	-10.2	
2	HVDC	RAIGARH-PUGALUR	2	0	1510	2.8	0.0	2.8	
3	765 kV	SOLAPUR-RAICHUR	2	625	2523	0.0	25.2	-25.2	
4	765 kV	WARDHA-NIZAMABAD	2	0	3204	0.0	47.2	-47.2	
5	400 kV	KOLHAPUR-KUDGI	2	1351	0	20.3	0.0	20.3	
6	220 kV	KOLHAPUR-CHIKODI	2	0	0	0.0	0.0	0.0	
7	220 kV	PONDA-AMBEWADI	1	1	0	0.0	0.0	0.0	
8	220 kV	XELDEM-AMBEWADI	1	0	53	1.0	0.0	1.0	
						WR-SR	24.1	82.7	-58.6

**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)	169	0	97	2.3
	ER	400kV TALA-BINAGURI 1,2,4 (& 400kV MALBASE - BINAGURI) i.e. BINAGURI RECEIPT (from TALA HEP (6*170MW)	101	0	80	1.9
	ER	220kV CHUKHA-BIRPARA 1&2 (& 220kV MALBASE - BIRPARA) i.e. BIRPARA RECEIPT (from CHUKHA HEP 4*84MW)	5	0	-29	-0.7
	NER	132KV-GEYLEGPHU - SALAKATI	33	15	23	0.6
	NER	132kV Motanga-Rangia	20	14	16	0.4
NEPAL	NR	132KV-TANAKPUR(NH) - MAHENDRANAGAR(PG)	-83	0	-72	-1.7
	ER	400KV-MUZAFFARPUR - DHALKEBAR DC	-276	-196	-276	-6.7
	ER	132KV-BIHAR - NEPAL	-334	-118	-247	-5.9
BANGLADESH	ER	BHERAMARA HVDC(BANGLADESH)	-444	-430	-436	-10.5
	NER	132KV-SURAJMANI NAGAR - COMILLA(BANGLADESH)-1	53	0	-45	-1.1
	NER	132KV-SURAJMANI NAGAR - COMILLA(BANGLADESH)-2	53	0	-45	-1.1