



**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>rd</sup> Apr 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 23.04.2021.**

महोदय/Dear Sir,

आई०ई०जी०सी०-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 23-अप्रैल-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> April 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-Apr-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 20:00 hrs; from RLDCs)	46028	51267	42094	22661	2768	164818
Peak Shortage (MW)	0	0	0	0	20	20
Energy Met (MU)	945	1309	1033	474	48	3810
Hydro Gen (MU)	141	45	71	41	11	309
Wind Gen (MU)	37	96	45	-	-	178
Solar Gen (MU)*	40.59	38.41	94.16	5.13	0.23	179
Energy Shortage (MU)	6.75	0.00	0.00	0.00	0.62	7.37
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	46362	57191	48080	23048	3012	166210
Time Of Maximum Demand Met (From NLDC SCADA)	19:45	11:23	11:58	19:41	18:40	22:26

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	0.021	0.00	0.00	1.65	1.65	82.31	16.04

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	5434	0	103.6	60.9	-3.4	117	0.00
	Haryana	6302	0	123.8	95.4	-1.0	299	0.00
	Rajasthan	10853	0	214.8	48.2	0.3	441	0.35
	Delhi	2909	0	64.0	48.7	-2.1	13	0.00
	UP	17329	0	322.1	110.6	-5.9	488	0.00
	Uttarakhand	1683	0	35.0	18.9	-1.4	82	0.00
	HP	1463	0	27.2	13.3	-0.9	54	0.00
	J&K(UT) & Ladakh(UT)	2671	0	51.6	39.3	1.1	359	6.40
	Chandigarh	172	0	3.2	3.4	-0.2	12	0.00
	Chhattisgarh	4331	0	104.2	41.3	-0.6	177	0.00
WR	Gujarat	17781	0	385.8	110.5	-1.4	761	0.00
	MP	10498	0	229.9	118.9	-1.0	395	0.00
	Maharashtra	23794	0	534.1	180.6	-1.4	609	0.00
	Goa	555	0	13.0	12.1	0.5	20	0.00
	DD	312	0	7.0	7.0	0.0	20	0.00
	DNH	757	0	17.8	17.9	-0.1	40	0.00
	AMNSIL	817	0	17.0	2.4	0.3	351	0.00
SR	Andhra Pradesh	10011	0	193.0	91.4	0.6	918	0.00
	Telangana	8811	0	181.8	76.5	0.8	588	0.00
	Karnataka	11080	0	210.6	61.6	0.1	505	0.00
	Kerala	3987	0	81.4	58.1	0.5	214	0.00
	Tamil Nadu	16216	0	357.1	247.1	-1.7	522	0.00
	Puducherry	436	0	9.5	9.6	-0.2	28	0.00
	Bihar	5493	0	101.7	95.2	-1.7	213	0.00
ER	DVC	3054	0	70.4	-51.6	-0.3	547	0.00
	Jharkhand	1582	0	26.4	22.4	-4.1	240	0.00
	Odisha	5266	0	113.0	54.6	0.4	442	0.00
	West Bengal	8083	0	161.6	28.9	-0.1	323	0.00
	Sikkim	72	0	1.0	1.5	-0.5	0	0.00
	Arunachal Pradesh	135	1	2.0	2.0	0.0	81	0.01
	Assam	1735	0	30.3	25.3	0.2	152	0.00
NER	Manipur	200	1	2.4	2.6	-0.1	34	0.01
	Meghalaya	298	0	4.8	2.2	0.4	98	0.58
	Mizoram	114	1	1.6	1.5	0.1	20	0.01
	Nagaland	137	1	2.1	1.7	0.3	39	0.01
	Tripura	301	0	5.1	5.7	0.7	209	0.00

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

	Bhutan	Nepal	Bangladesh
Actual (MU)	7.0	-15.8	-23.8
Day Peak (MW)	419.0	-790.3	-1084.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	145.8	-268.4	177.3	-73.3	18.6	0.0
Actual(MU)	124.5	-278.9	195.7	-73.4	21.5	-10.6
O/D/U/D(MU)	-21.3	-10.4	18.4	-0.1	2.8	-10.6

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL	% Share
Central Sector	3868	13153	8402	1148	1370	27941	42
State Sector	12005	12798	8275	4875	77	38030	58
Total	15873	25951	16677	6023	1447	65971	100

G. Sourcewise generation (MU)

	NR	WR	SR	ER	NER	All India	% Share
Coal	511	1359	522	543	9	2944	75
Lignite	20	11	40	0	0	70	2
Hydro	141	45	71	41	11	309	8
Nuclear	28	20	43	0	0	91	2
Gas, Naptha & Diesel	35	37	11	0	13	97	2
RES (Wind, Solar, Biomass & Others)	104	135	168	5	0	413	11
Total	839	1608	854	590	32	3923	100
Share of RES in total generation (%)	12.40	8.41	19.68	0.87	0.71	10.52	
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	32.46	12.48	32.98	7.86	34.43	20.70	

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.069
Based on State Max Demands	1.111

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-Apr-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	6.1	-6.1
3	765 kV	GAYA-VARANASI	2	130	465	0.0	4.7	-4.7
4	765 kV	SASARAM-FATEHPUR	1	87	143	0.0	1.1	-1.1
5	765 kV	GAYA-BALIA	1	0	397	0.0	6.2	-6.2
6	400 kV	PUSAULI-VARANASI	1	0	251	0.0	5.1	-5.1
7	400 kV	PUSAULI-ALLAHABAD	1	0	78	0.0	0.8	-0.8
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	308	284	0.0	1.6	-1.6
9	400 kV	PATNA-BALIA	4	0	697	0.0	9.8	-9.8
10	400 kV	BIHARSHARIFF-BALIA	2	139	123	0.0	0.5	-0.5
11	400 kV	MOTIHARI-GORAKHPUR	2	106	258	0.0	2.7	-2.7
12	400 kV	BIHARSHARIFF-VARANASI	2	109	163	0.0	1.5	-1.5
13	220 kV	PUSAULI-SAHUPURI	1	22	92	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	0.4	-40.8
<b>Import/Export of ER (With WR)</b>								
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	1809	0	36.6	0.0	36.6
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	947	335	8.1	0.0	8.1
3	765 kV	JHARSUGUDA-DURG	2	155	96	0.8	0.0	0.8
4	400 kV	JHARSUGUDA-RAIGARH	4	239	88	2.3	0.0	2.3
5	400 kV	RANCHI-SIPAT	2	246	105	1.5	0.0	1.5
6	220 kV	BUDHIPADAR-RAIGARH	1	0	144	0.0	2.4	-2.4
7	220 kV	BUDHIPADAR-KORBA	2	178	0	2.9	0.0	2.9
						ER-WR	52.2	-49.8
<b>Import/Export of ER (With SR)</b>								
1	HVDC	JEYPORE-GAZUWAKA B/B	2	0	527	0.0	11.3	-11.3
2	HVDC	TALCHER-KOLAR BIPOLE	2	0	1969	0.0	45.6	-45.6
3	765 kV	ANGUL-SRIKAKULAM	2	0	3057	0.0	62.7	-62.7
4	400 kV	TALCHER-I/C	2	348	261	0.0	1.7	-1.7
5	220 kV	BALMELA-UPPER-SILERRU	1	1	0	0.0	0.0	0.0
						ER-SR	0.0	-119.6
<b>Import/Export of ER (With NER)</b>								
1	400 kV	BINAGURI-BONGAIGAON	2	0	394	0.0	4.2	-4.2
2	400 kV	ALIPURDUAR-BONGAIGAON	2	0	574	0.0	6.5	-6.5
3	220 kV	ALIPURDUAR-SALAKATI	2	0	122	0.0	1.4	-1.4
						ER-NER	0.0	-12.0
<b>Import/Export of NER (With NR)</b>								
1	HVDC	BISWANATH CHARIALL-AGRA	2	495	0	10.5	0.0	10.5
						NER-NR	10.5	0.0
<b>Import/Export of WR (With NR)</b>								
1	HVDC	CHAMPA-KURUKSHETRA	2	0	0	0.0	27.5	-27.5
2	HVDC	VINDHYACHAL B/B	-	166	0	4.7	0.0	4.7
3	HVDC	MUNDRAL-MOHINDERGARH	2	0	1768	0.0	31.5	-31.5
4	765 kV	GWALIOR-AGRA	2	0	2325	0.0	35.9	-35.9
5	765 kV	PHAGL-GWALIOR	2	0	1262	0.0	22.7	-22.7
6	765 kV	JABALPUR-ORAI	2	702	746	0.0	22.4	-22.4
7	765 kV	GWALIOR-ORAI	1	642	0	11.9	0.0	11.9
8	765 kV	SATNA-ORAI	1	0	1352	0.0	26.1	-26.1
9	765 kV	CHITORGARH-BANASKANTHA	2	970	16	12.3	0.0	12.3
10	400 kV	ZERDA-KANKROLI	1	268	0	4.6	0.0	4.6
11	400 kV	ZERDA-BHNMAL	1	426	0	7.9	0.0	7.9
12	400 kV	VINDHYACHAL-RIHAND	1	988	0	22.5	0.0	22.5
13	400 kV	RAPP-SHULALPUR	2	181	266	0.0	0.7	-0.7
14	220 kV	BHANPURA-RANPUR	1	31	65	0.1	0.5	-0.5
15	220 kV	BHANPURA-MORAK	1	0	30	0.3	0.3	0.0
16	220 kV	MEHGAON-AURAIYA	1	95	1	0.3	0.1	0.2
17	220 kV	MALANPUR-AURAIYA	1	64	26	0.9	0.0	0.9
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	65.3	-167.7
<b>Import/Export of WR (With SR)</b>								
1	HVDC	BHADRAWATI B/B	-	0	816	0.0	13.2	-13.2
2	HVDC	RAIGARH-PUGALUR	2	0	2011	0.0	37.8	-37.8
3	765 kV	SOLAPUR-RAICHUR	2	0	2245	0.0	34.3	-34.3
4	765 kV	WARDHA-NIZAMABAD	2	0	2565	0.0	45.8	-45.8
5	400 kV	KOLHAPUR-KUDGI	2	584	91	5.3	0.0	5.3
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	90	1.8	0.0	1.8
						WR-SR	7.1	-124.1
<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)	185	0	142	3.4		
	ER	400KV TALA-BINAGURI 1,2,3 (& 400KV MALBASE - BINAGURI) i.e. BINAGURI RECEIPT (from TALA HEP (6*170MW)	120	89	94	2.3		
	ER	220KV CHUKHA-BIRPARA 1&2 (& 220KV MALBASE - BIRPARA) i.e. BIRPARA RECEIPT (from CHUKHA HEP 4*84MW)	53	0	25	0.6		
	NER	132KV-GEYLEGPHU - SALAKATI	36	5	-13	-0.3		
NEPAL	NR	132KV-TANAKPUR(NH) - MAHENDRANAGAR(PG)	-80	0	-71	-1.7		
	ER	400KV-MUZAFFARPUR - DHALKEBAR DC	-401	-265	-338	-8.1		
	ER	132KV-BIHAR - NEPAL	-309	-136	-248	-6.0		
BANGLADESH	ER	BHERAMARA HVDC(BANGLADESH)	-864	-849	-861	-20.7		
	NER	132KV-SURAJMANI NAGAR - COMILLA(BANGLADESH)-1	137	0	-91	-2.2		
	NER	132KV-SURAJMANI NAGAR - COMILLA(BANGLADESH)-2	83	0	-39	-0.9		