



**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: 22<sup>nd</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 21.04.2021.**

महोदय/Dear Sir,

आई०ई०जी०सी०-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 21-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 21<sup>st</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: 22-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)	46497	51527	44933	21335	2816	167108
Peak Shortage (MW)	350	0	0	0	8	358
Energy Met (MU)	955	1316	1091	498	49	3910
Hydro Gen (MU)	113	51	79	39	12	294
Wind Gen (MU)	9	60	43	-	-	112
Solar Gen (MU)*	49.16	35.90	103.87	5.09	0.21	194
Energy Shortage (MU)	6.40	0.00	0.00	0.11	0.08	6.59
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	47539	57816	51512	23409	3017	170796
Time Of Maximum Demand Met (From NLDC SCADA)	19:38	14:55	14:41	00:01	19:15	11:51

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	0.048	0.00	1.37	8.62	9.99	72.89	17.13

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	5809	0	117.1	62.9	-1.5	153	0.00
	Haryana	6894	0	124.3	88.6	0.8	315	0.00
	Rajasthan	9951	0	205.6	60.6	-0.3	360	0.00
	Delhi	2980	0	64.2	48.4	-1.4	37	0.00
	UP	17394	0	328.3	99.3	-4.2	452	0.00
	Uttarakhand	1734	0	34.6	21.7	-1.5	75	0.00
	HP	1457	0	27.2	16.1	-0.8	114	0.00
	J&K(UT) & Ladakh(UT)	2543	350	51.3	39.6	0.2	484	6.40
WR	Chandigarh	148	0	2.8	3.2	-0.3	20	0.00
	Chhattisgarh	4173	0	99.2	43.8	-0.2	491	0.00
	Gujarat	17807	0	390.6	107.1	1.2	696	0.00
	MP	10912	0	229.5	127.6	-2.2	516	0.00
	Maharashtra	24228	0	542.6	191.0	-2.3	654	0.00
	Goa	558	0	12.2	12.0	-0.4	21	0.00
	DD	316	0	7.2	6.9	0.3	27	0.00
	DNH	781	0	18.2	18.3	-0.1	35	0.00
SR	AMNSIL	768	0	16.5	2.7	-0.2	341	0.00
	Andhra Pradesh	10332	0	208.3	100.0	0.1	778	0.00
	Telangana	10085	0	202.7	85.6	0.0	515	0.00
	Karnataka	11880	0	238.8	67.7	-0.4	599	0.00
	Kerala	3765	0	79.1	57.1	0.4	215	0.00
	Tamil Nadu	15852	0	353.2	226.9	3.7	858	0.00
ER	Puducherry	437	0	9.4	9.4	0.1	55	0.00
	Bihar	5435	0	115.8	101.2	4.9	460	0.00
	DVC	3189	0	68.4	-49.9	-1.1	135	0.00
	Jharkhand	1489	0	28.7	23.3	-3.1	167	0.11
	Odisha	5372	0	106.1	47.4	0.4	316	0.00
	West Bengal	9100	0	178.4	52.3	-3.2	174	0.00
NER	Sikkim	54	0	0.8	1.5	-0.7	7	0.00
	Arunachal Pradesh	127	3	2.1	2.4	-0.4	34	0.01
	Assam	1728	4	29.5	24.6	0.9	155	0.00
	Manipur	201	2	2.6	2.6	-0.1	21	0.01
	Meghalaya	341	0	5.8	3.7	0.0	167	0.00
	Mizoram	107	3	1.6	1.6	0.0	16	0.01
	Nagaland	139	4	2.2	2.2	0.0	13	0.01
	Tripura	293	2	5.4	4.5	0.9	86	0.04

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

	Bhutan	Nepal	Bangladesh
Actual (MU)	6.1	-16.9	-21.5
Day Peak (MW)	557.0	-783.2	-1738.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	166.2	-274.9	175.4	-78.1	11.4	0.0
Actual(MU)	145.1	-292.5	200.9	-77.6	16.7	-7.4
O/D/U/D(MU)	-21.1	-17.6	25.5	0.5	5.3	-7.4

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL	% Share
Central Sector	3868	13898	7442	648	1310	27166	43
State Sector	12115	11106	8065	5195	11	36492	57
Total	15983	25004	15507	5843	1321	63658	100

G. Sourcewise generation (MU)

	NR	WR	SR	ER	NER	All India	% Share
Coal	547	1403	560	570	11	3091	77
Lignite	19	11	41	0	0	72	2
Hydro	113	51	79	39	12	294	7
Nuclear	31	11	42	0	0	85	2
Gas, Naptha & Diesel	38	49	10	0	14	111	3
RES (Wind, Solar, Biomass & Others)	82	96	177	5	0	360	9
Total	830	1622	910	615	38	4013	100

Share of RES in total generation (%)	9.84	5.93	19.49	0.82	0.56	8.98
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	27.18	9.75	32.84	7.17	32.72	18.41

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.073
Based on State Max Demands	1.103

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: 22-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	248	0.0	6.1	-6.1	
3	765 kV	GAYA-VARANASI	2	46	358	0.0	5.6	-5.6	
4	765 kV	SASARAM-EATEHPUR	1	43	165	0.0	1.3	-1.3	
5	765 kV	GAYA-BALIA	1	0	397	0.0	6.3	-6.3	
6	400 kV	PUSAULI-VARANASI	1	0	246	0.0	5.2	-5.2	
7	400 kV	PUSAULI-ALLAHABAD	1	0	60	0.0	0.7	-0.7	
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	241	352	0.0	1.9	-1.9	
9	400 kV	PATNA-BALIA	4	0	780	0.0	12.0	-12.0	
10	400 kV	BIHARSHARIFF-BALIA	2	127	165	0.0	0.8	-0.8	
11	400 kV	MOTIHARI-GORAKHPUR	2	30	387	0.0	4.0	-4.0	
12	400 kV	BIHARSHARIFF-VARANASI	2	91	192	0.0	1.3	-1.3	
13	220 kV	PUSAULI-SAHUPURI	1	19	115	0.0	1.3	-1.3	
14	132 kV	SONWARI-RIHAND	1	0	0	0.0	0.0	0.0	
15	132 kV	GARWARI-RIHAND	1	20	0	0.3	0.0	-0.3	
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	0.3	46.4	-46.1
<b>Import/Export of ER (With WR)</b>									
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	1884	0	32.4	0.0	32.4	
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	1180	175	12.1	0.0	12.1	
3	765 kV	JHARSUGUDA-DURG	2	101	201	0.2	0.0	0.2	
4	400 kV	JHARSUGUDA-RAIGARH	4	198	322	0.0	0.8	-0.8	
5	400 kV	RANCHI-SIPAT	2	279	120	2.2	0.0	2.2	
6	220 kV	BUDHIPADAR-RAIGARH	1	0	141	0.0	2.7	-2.7	
7	220 kV	BUDHIPADAR-KORBA	2	165	0	2.7	0.0	2.7	
						ER-WR	49.5	3.4	46.1
<b>Import/Export of ER (With SR)</b>									
1	HVDC	JEYPORE-GAZUWAKA B/B	2	0	523	0.0	11.3	-11.3	
2	HVDC	TALCHER-KOLAR BIPOLE	2	0	1984	0.0	48.0	-48.0	
3	765 kV	ANGUL-SRIKAKULAM	2	0	3144	0.0	62.9	-62.9	
4	400 kV	TALCHER-I/C	2	0	193	0.0	3.3	-3.3	
5	220 kV	BALIMELA-UPPER-SILERRU	1	1	0	0.0	0.0	0.0	
						ER-SR	0.0	122.2	-122.2
<b>Import/Export of ER (With NER)</b>									
1	400 kV	BINAGURI-BONGAIGAON	2	74	326	0.0	2.1	-2.1	
2	400 kV	ALIPURDUAR-BONGAIGAON	2	118	452	0.0	3.8	-3.8	
3	220 kV	ALIPURDUAR-SALAKATI	2	22	97	0.0	0.8	-0.8	
						ER-NER	0.0	6.6	-6.6
<b>Import/Export of NER (With NR)</b>									
1	HVDC	BISWANATH CHARIALL-AGRA	2	491	0	10.6	0.0	10.6	
						NER-NR	10.6	0.0	10.6
<b>Import/Export of WR (With NR)</b>									
1	HVDC	CHAMPA-KURUKSHETRA	2	0	0	0.0	23.9	-23.9	
2	HVDC	VINDHYACHAL B/B	-	167	105	2.7	1.0	1.7	
3	HVDC	MUNDA-MOHINDRGARH	2	0	192	0.0	38.0	-38.0	
4	765 kV	GWALIOR-AGRA	2	0	2386	0.0	40.2	-40.2	
5	765 kV	PHAGI-GWALIOR	2	0	1744	0.0	30.3	-30.3	
6	765 kV	JABALPUR-ORAI	2	616	795	0.0	23.9	-23.9	
7	765 kV	GWALIOR-ORAI	1	807	0	14.4	0.0	14.4	
8	765 kV	SATNA-ORAI	1	0	1350	0.0	28.1	-28.1	
9	765 kV	CHITORGARH-BANASKANTHA	2	1373	0	19.4	0.0	19.4	
10	400 kV	ZERDA-KANKROLI	1	354	0	5.0	0.0	5.0	
11	400 kV	ZERDA -BHINMAL	1	504	3	6.5	0.0	6.5	
12	400 kV	VINDHYACHAL -RIHAND	1	966	0	21.0	0.0	21.0	
13	400 kV	RAPP-SHUALPUR	2	169	324	0.4	3.5	-3.1	
14	220 kV	BHANPURA-RANPUR	1	22	64	0.0	0.7	-0.7	
15	220 kV	BHANPURA-MORAK	1	0	30	0.1	0.4	-0.3	
16	220 kV	MEHGAON-AURAIYA	1	125	35	0.6	0.1	0.6	
17	220 kV	MALANPUR-AURAIYA	1	88	41	1.2	0.0	1.2	
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	71.2	190.2	-118.9
<b>Import/Export of WR (With SR)</b>									
1	HVDC	BHADRAWATI B/B	-	0	1012	0.0	19.1	-19.1	
2	HVDC	RAIGARH-PUGALUR	2	0	3007	0.0	43.4	-43.4	
3	765 kV	SOLAPUR-RAICHUR	2	0	2422	0.0	30.4	-30.4	
4	765 kV	WARDHA-NIZAMABAD	2	0	2506	0.0	43.7	-43.7	
5	400 kV	KOLHAPUR-KUDGI	2	700	69	8.2	0.0	8.2	
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	111	1.9	0.0	1.9	
						WR-SR	10.2	136.7	-126.5
<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)	199	0	130	3.1			
	ER	400KV TALA-BINAGURI 1,2,3 (& 400KV MALBASE - BINAGURI) i.e. BINAGURI RECEIPT (from TALA HEP (6*170MW)	255	106	114	2.7			
	ER	220KV CHUKHA-BIRPARA 1&2 & 220KV MALBASE - BIRPARA) i.e. BIRPARA RECEIPT (from CHUKHA HEP 4*84MW)	77	0	8	0.2			
	NER	132KV-GEYLEGPHU - SALAKATI	40	8	20	0.5			
	NER	132KV Motanga-Rangia	-14	1	-2	0.0			
NEPAL	NR	132KV-TANAKPUR(NH) - MAHENDRANAGAR(PG)	-81	0	-69	-1.7			
	ER	400KV-MUZAFFARPUR - DHALKEBAR DC	-352	-257	-348	-8.3			
BANGLADESH	ER	132KV-BIHAR - NEPAL	-350	-172	-287	-6.9			
	ER	BHERAMARA HVDC(BANGLADESH)	-866	-514	-751	-18.0			
	NER	132KV-SURAJMANI NAGAR - COMILLA(BANGLADESH)-1	79	0	-73	-1.8			
	NER	132KV-SURAJMANI NAGAR - COMILLA(BANGLADESH)-2	793	0	-73	-1.7			