



**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: 21<sup>st</sup> Oct 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 20.10.2021.**

महोदय/Dear Sir,

आई०ई०जी०सी०-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 20-अक्टूबर-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 20<sup>th</sup> October 2021, is available at the NLDC website.

धन्यवाद,

पाँवर सिस्टम ऑपरेशन कारपोरेशन लिमिटेड  
राष्ट्रीय भार प्रेषण केंद्र, नई दिल्ली



Report for previous day

Date of Reporting:

21-Oct-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)	48598	50834	41760	20257	2655	164104
Peak Shortage (MW)	280	3814	0	360	0	4454
Energy Met (MU)	1005	1182	978	425	51	3640
Hydro Gen (MU)	207	45	167	127	26	571
Wind Gen (MU)	17	30	19	-	-	67
Solar Gen (MU)*	65.88	41.90	85.01	4.73	0.15	198
Energy Shortage (MU)	9.51	32.99	0.00	2.75	0.00	45.25
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	49739	51890	46396	20599	2705	168063
Time Of Maximum Demand Met (From NLDC SCADA)	18:51	11:39	10:39	19:48	17:44	18:48

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	0.041	0.00	1.60	4.54	6.13	68.34	25.53

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	6995	0	149.0	72.7	-0.3	174	0.00
	Haryana	7280	0	142.7	98.7	-0.4	186	3.01
	Rajasthan	10733	0	223.2	64.8	-2.6	266	0.72
	Delhi	3806	0	75.0	63.9	-1.6	167	0.00
	UP	16434	0	298.4	119.6	-0.6	328	2.26
	Uttarakhand	1696	0	34.4	18.6	0.6	173	0.07
	HP	1572	0	31.4	13.8	-0.8	124	0.00
	J&K(UT) & Ladakh(UT)	2539	200	47.4	38.3	-0.3	162	3.45
WR	Chandigarh	192	0	3.5	3.7	-0.2	16	0.00
	Chhattisgarh	4048	0	93.0	35.1	0.7	254	0.00
	Gujarat	16475	493	360.1	206.4	4.4	888	32.91
	MP	9313	0	195.7	122.9	-1.2	491	0.00
	Maharashtra	21396	0	475.1	163.2	-1.6	549	0.00
	Goa	619	0	14.2	11.1	2.5	99	0.08
	DD	357	0	8.0	7.3	0.7	130	0.00
	DNH	853	0	19.8	19.5	0.3	69	0.00
SR	AMNSIL	754	0	16.3	7.3	0.4	265	0.00
	Andhra Pradesh	9815	0	201.6	83.7	1.2	545	0.00
	Telangana	9223	0	191.8	40.6	-0.6	500	0.00
	Karnataka	9693	0	188.7	55.9	0.7	561	0.00
	Kerala	3473	0	73.0	33.6	-0.1	249	0.00
	Tamil Nadu	14244	0	313.9	188.8	2.9	1061	0.00
	Puducherry	416	0	8.7	8.9	-0.1	38	0.00
	ER	Bihar	4726	0	84.7	77.8	0.8	598
DVC		3185	0	67.4	-29.6	1.5	462	1.12
Jharkhand		1315	0	26.8	19.1	-0.3	186	1.27
Odisha		5554	0	110.1	34.1	0.1	566	0.00
West Bengal		6992	0	134.8	22.1	1.0	483	0.00
Sikkim		79	0	1.0	1.5	-0.5	65	0.00
NER	Arunachal Pradesh	122	0	2.3	2.5	-0.3	18	0.00
	Assam	1697	0	31.5	24.2	0.1	118	0.00
	Manipur	190	0	2.5	2.6	-0.1	31	0.00
	Meghalaya	324	0	6.0	2.4	-0.2	70	0.00
	Mizoram	110	0	1.6	1.2	-0.2	2	0.00
	Nagaland	130	0	2.4	2.4	-0.4	17	0.00
	Tripura	250	0	4.4	3.9	-0.1	58	0.00

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

	Bhutan	Nepal	Bangladesh
Actual (MU)	46.4	1.4	-19.0
Day Peak (MW)	2206.0	298.7	-867.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	167.9	-95.0	105.7	-167.4	-11.2	0.0
Actual(MU)	136.0	-77.1	115.7	-165.5	-13.0	-3.9
O/D/U/D(MU)	-31.9	17.9	10.1	1.9	-1.8	-3.9

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL	% Share
Central Sector	5076	16638	9562	1760	615	33650	44
State Sector	11060	18040	8280	4925	11	42315	56
Total	16135	34677	17842	6685	626	75965	100

G. Sourcewise generation (MU)

	NR	WR	SR	ER	NER	All India	% Share
Coal	523	1092	474	484	14	2587	69
Lignite	22	8	37	0	0	67	2
Hydro	207	45	167	127	26	571	15
Nuclear	27	33	63	0	0	123	3
Gas, Naptha & Diesel	20	23	9	0	29	81	2
RES (Wind, Solar, Biomass & Others)	95	73	127	5	0	300	8
Total	894	1273	877	616	69	3728	100

Share of RES in total generation (%)	10.60	5.71	14.52	0.77	0.22	8.04
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	36.75	11.78	40.80	21.39	37.48	26.65

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.019
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: 21-Oct-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	1002	0.0	25.0	-25.0	
2	HVDC	PUSAULI B/B	-	3	249	0.0	4.8	-4.8	
3	765 kV	GAYA-VARANASI	2	75	548	0.0	6.2	-6.2	
4	765 kV	SASARAM-FATEHPUR	1	0	378	0.0	5.4	-5.4	
5	765 kV	GAYA-BALIA	1	0	241	0.0	3.8	-3.8	
6	400 kV	PUSAULI-VARANASI	1	11	171	0.0	3.0	-3.0	
7	400 kV	PUSAULI-ALLAHABAD	1	43	119	0.0	1.8	-1.8	
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	0	568	0.0	11.0	-11.0	
9	400 kV	PATNA-BALIA	4	0	378	0.0	6.5	-6.5	
10	400 kV	BIHARSHARIF-BALIA	2	54	190	0.0	2.7	-2.7	
11	400 kV	MOTIHARI-GORAKHPUR	2	0	327	0.0	6.1	-6.1	
12	400 kV	BIHARSHARIF-VARANASI	2	44	166	0.0	1.7	-1.7	
13	220 kV	PUSAULI-SAHUPURI	1	0	103	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	0.3	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	79.0	-78.7
<b>Import/Export of ER (With WR)</b>									
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	492	119	3.2	0.0	3.2	
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	32	901	0.0	8.0	-8.0	
3	765 kV	JHARSUGUDA-DURG	2	6	488	0.0	4.4	-4.4	
4	400 kV	JHARSUGUDA-RAIGARH	4	0	461	0.0	6.1	-6.1	
5	400 kV	RANCHI-SIPAT	2	0	242	0.0	2.1	-2.1	
6	220 kV	BUDHIPADAR-RAIGARH	1	0	116	0.0	1.9	-1.9	
7	220 kV	BUDHIPADAR-KORBA	2	148	0	2.5	0.0	2.5	
						ER-WR	5.7	22.4	-16.8
<b>Import/Export of ER (With SR)</b>									
1	HVDC	JEYPORE-GAZUWAKA B/B	2	0	443	0.0	9.9	-9.9	
2	HVDC	TALCHER-KOLAR BIPOLE	2	0	1987	0.0	41.5	-41.5	
3	765 kV	ANGUL-SRIKAKULAM	2	0	2749	0.0	55.3	-55.3	
4	400 kV	TALCHER/JC	2	0	654	0.0	7.9	-7.9	
5	220 kV	BALIMELA-UPPER-SILERRU	1	2	0	0.0	0.0	0.0	
						ER-SR	0.0	106.6	-106.6
<b>Import/Export of ER (With NER)</b>									
1	400 kV	BINAGURI-BONGAIGAON	2	105	177	0.0	1.1	-1.1	
2	400 kV	ALIPURDUAR-BONGAIGAON	2	211	188	0.9	0.0	0.9	
3	220 kV	ALIPURDUAR-SALAKATI	2	29	44	0.0	0.2	-0.2	
						ER-NER	0.9	1.3	-0.4
<b>Import/Export of NER (With NR)</b>									
1	HVDC	BISWANATH CHARIALI-AGRA	2	0	704	0.0	14.3	-14.3	
						NER-NR	0.0	14.3	-14.3
<b>Import/Export of WR (With NR)</b>									
1	HVDC	CHAMPA-KURUKSHETRA	2	0	1011	0.0	24.0	-24.0	
2	HVDC	VINDHYACHAL B/B	-	449	200	4.3	2.3	2.1	
3	HVDC	MUNDRU-MOHENDERGARH	2	0	473	0.0	11.6	-11.6	
4	765 kV	GWALIOR-AGRA	2	0	1021	0.0	14.2	-14.2	
5	765 kV	GWALIOR-PHAGI	2	0	1794	0.0	32.8	-32.8	
6	765 kV	JABALPUR-ORAI	2	0	383	0.0	14.1	-14.1	
7	765 kV	GWALIOR-ORAI	1	793	0	14.0	0.0	14.0	
8	765 kV	SATNA-ORAI	1	0	930	0.0	19.2	-19.2	
9	765 kV	BANASKANTHA-CHITORGARH	2	1641	0	33.3	0.0	33.3	
10	765 kV	VINDHYACHAL-VARANASI	2	0	1833	0.0	26.8	-26.8	
11	400 kV	ZERDA-KANKROLI	1	418	0	8.0	0.0	8.0	
12	400 kV	ZERDA-BHINMAL	1	644	0	10.5	0.0	10.5	
13	400 kV	VINDHYACHAL-RIHAND	1	969	0	22.1	0.0	22.1	
14	400 kV	RAPP-SHUJALPUR	2	128	148	0.5	1.0	-0.4	
15	220 kV	BHANPURA-RANPUR	1	50	12	0.4	0.0	0.3	
16	220 kV	BHANPURA-MORAK	1	0	30	1.2	0.0	1.2	
17	220 kV	MEHGAON-AURAIYA	1	118	0	1.4	0.0	1.4	
18	220 kV	MALANPUR-AURAIYA	1	87	0	1.9	0.0	1.9	
19	132 kV	GWALIOR-SAWALMADHOPUR	1	0	0	0.0	0.0	0.0	
20	132 kV	RAJGHAT-LALITPUR	2	0	0	0.0	0.0	0.0	
						WR-NR	97.5	146.0	-48.5
<b>Import/Export of WR (With SR)</b>									
1	HVDC	BHADRAWATI B/B	-	496	1019	5.7	8.3	-2.6	
2	HVDC	RAIGARH-PUGALUR	2	434	452	3.2	0.0	3.2	
3	765 kV	SOLAPUR-RAICHUR	2	0	1940	0.0	24.8	-24.8	
4	765 kV	WARDHA-NIZAMABAD	2	0	2520	0.0	37.8	-37.8	
5	400 kV	KOLHAPUR-KUDGI	2	808	0	15.1	0.0	15.1	
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	87	1.6	0.0	1.6	
						WR-SR	25.6	70.9	-45.3

INTERNATIONAL EXCHANGES

Import(+ve)/Export(-ve)

State	Region	Line Name	Max (MW)	Min (MW)	Avg (MW)	Energy Exchange (MU)
BHUTAN	ER	400kV MANGDECHHU-ALIPURDUAR 1,2&3 i.e. ALIPURDUAR RECEIPT (from MANGDECHHU HEP 4*180MW)	813	0	777	18.6
	ER	400kV TALA-BINAGURI 1,2,3 (& 400kV MALBASE - BINAGURI) i.e. BINAGURI RECEIPT (from TALA HEP (6*170MW) 220kV CHUKHA-BIRPARA 1&2 (& 220kV MALBASE - BIRPARA) i.e. BIRPARA RECEIPT (from CHUKHA HEP 4*84MW)	1042	0	981	23.5
	ER	132kV GELEPHU-SALAKATI	32	17	24	0.6
	NER	132kV MOTANGA-RANGIA	47	14	30	0.7
	NR	132kV MAHENDRANAGAR-TANAKPUR(NHPC)	-71	0	-4	-0.1
NEPAL	ER	NEPAL IMPORT (FROM BIHAR)	89	0	7	0.2
	ER	400kV DHALKEBAR-MUZAFFARPUR 1&2	281	0	54	1.3
BANGLADESH	ER	BHERAMARA B/B HVDC (BANGLADESH)	-726	-481	-672	-16.1
	NER	132kV COMILLA-SURAJMANI NAGAR 1&2	-141	0	-120	-2.9