



**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: 25<sup>th</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 24.10.2021.**

महोदय/Dear Sir,

आई०ई०जी०सी०-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 24-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 24<sup>th</sup> October 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: 25-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)	42540	50551	37275	20910	2656	153932
Peak Shortage (MW)	200	0	0	305	0	505
Energy Met (MU)	875	1184	884	434	49	3426
Hydro Gen (MU)	196	41	141	122	18	518
Wind Gen (MU)	11	39	23	-	-	73
Solar Gen (MU)*	51.83	39.93	84.07	4.67	0.28	181
Energy Shortage (MU)	6.82	0.30	0.00	0.87	0.00	7.99
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	44036	52607	40719	20982	2720	157455
Time Of Maximum Demand Met (From NLDC SCADA)	18:38	10:45	12:33	18:36	18:25	18:35

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	0.029	0.00	0.00	4.21	4.21	80.62	15.17

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	5065	0	97.2	53.8	-0.7	187	0.00
	Haryana	5668	0	116.7	79.3	-0.2	261	0.00
	Rajasthan	10309	0	209.9	53.7	-2.1	748	0.00
	Delhi	3441	0	68.5	55.4	0.9	246	0.00
	UP	15062	0	276.6	113.7	-3.1	281	3.37
	Uttarakhand	1607	0	30.7	15.9	-1.8	94	0.00
	HP	1417	0	27.6	11.7	-1.2	165	0.00
	J&K(UT) & Ladakh(UT)	2395	200	45.4	35.6	0.3	312	3.45
	Chandigarh	151	0	2.9	3.4	-0.4	15	0.00
	Chhattisgarh	3857	0	89.3	34.3	-0.2	216	0.00
WR	Gujarat	16732	0	367.7	213.1	6.2	960	0.30
	MP	9585	0	200.1	127.0	-0.9	613	0.00
	Maharashtra	21249	0	468.8	173.1	-0.7	571	0.00
	Goa	560	0	12.5	9.9	1.9	21	0.00
	DD	333	0	7.6	7.4	0.2	35	0.00
	DNH	837	0	19.5	19.2	0.3	62	0.00
	AMNSIL	816	0	18.2	9.0	0.1	325	0.00
SR	Andhra Pradesh	8688	0	182.6	75.9	-0.6	418	0.00
	Telangana	9179	0	190.1	54.7	-2.6	282	0.00
	Karnataka	7938	0	163.4	55.3	-3.7	527	0.00
	Kerala	3263	0	66.7	28.8	-1.0	198	0.00
	Tamil Nadu	12022	0	273.7	147.1	-1.2	386	0.00
	Puducherry	350	0	7.7	8.1	-0.4	19	0.00
ER	Bihar	5056	0	92.7	85.5	0.4	407	0.27
	DVC	3090	0	66.6	-25.1	-1.0	342	0.00
	Jharkhand	1501	0	25.7	22.2	-2.5	168	0.60
	Odisha	5655	0	112.8	49.4	-0.8	361	0.00
	West Bengal	6816	0	135.1	19.7	-1.2	353	0.00
NER	Sikkim	82	0	1.3	1.2	0.1	44	0.00
	Arunachal Pradesh	143	0	2.3	2.1	0.0	76	0.00
	Assam	1697	0	29.8	22.3	0.6	100	0.00
	Manipur	183	0	2.5	2.6	-0.1	31	0.00
	Meghalaya	297	0	5.6	3.0	0.0	28	0.00
	Mizoram	100	0	1.5	1.1	-0.2	25	0.00
	Nagaland	118	0	2.4	2.0	0.0	12	0.00
	Tripura	252	0	4.5	3.8	-0.6	31	0.00

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

	Bhutan	Nepal	Bangladesh
Actual (MU)	42.6	0.5	-20.4
Day Peak (MW)	1861.0	70.0	-870.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	119.2	-80.3	87.5	-122.2	-4.3	0.0
Actual(MU)	83.1	-54.4	83.1	-113.5	-4.6	-6.3
O/D/U/D(MU)	-36.1	25.9	-4.5	8.7	-0.3	-6.3

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL	% Share
Central Sector	6178	15820	9322	2030	580	33929	44
State Sector	11626	18914	8981	4105	11	43637	56
Total	17804	34734	18303	6135	591	77566	100

G. Sourcewise generation (MU)

	NR	WR	SR	ER	NER	All India	% Share
Coal	464	1072	418	446	11	2411	69
Lignite	25	9	48	0	0	81	2
Hvdro	196	41	141	122	18	518	15
Nuclear	32	33	69	0	0	133	4
Gas, Naptha & Diesel	16	19	8	0	29	73	2
RES (Wind, Solar, Biomass & Others)	75	80	132	5	0	291	8
Total	808	1253	815	573	58	3508	100
Share of RES in total generation (%)	9.24	6.36	16.19	0.81	0.48	8.30	
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	37.44	12.25	41.92	22.11	31.43	26.88	

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.023
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: 25-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	500	0.0	13.0	-12.0	
2	HVDC	PUSAULI B/B	-	0	248	0.0	5.7	-5.7	
3	765 kV	GAYA-VARANASI	2	178	413	0.0	1.0	-1.0	
4	765 kV	SASARAM-FATEHPUR	1	0	353	0.0	4.0	-4.0	
5	765 kV	GAYA-BALIA	1	0	201	0.0	2.2	-2.2	
6	400 kV	PUSAULI-VARANASI	1	0	196	0.0	3.4	-3.4	
7	400 kV	PUSAULI-ALLAHABAD	1	0	128	0.0	2.1	-2.1	
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	0	636	0.0	10.8	-10.8	
9	400 kV	PATNA-BALIA	4	0	334	0.0	3.4	-3.4	
10	400 kV	BIHARSHARIFF-BALIA	2	38	251	0.0	2.1	-2.1	
11	400 kV	MOTIHARI-GORAKHPUR	2	0	323	0.0	5.1	-5.1	
12	400 kV	BIHARSHARIFF-VARANASI	2	73	205	0.0	0.9	-0.9	
13	220 kV	PUSAULI-SAHUPURI	1	16	76	0.0	0.6	-0.6	
14	132 kV	SONENAGAR-RIHAND	1	0	0	0.0	0.4	0.0	
15	132 kV	GARWAH-RIHAND	1	20	0	0.0	0.3	0.0	
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	53.4	-53.1
<b>Import/Export of ER (With WR)</b>									
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	881	108	8.1	0.0	8.1	
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	440	722	0.0	1.9	-1.9	
3	765 kV	JHARSUGUDA-DURG	2	10	304	0.0	2.9	-2.9	
4	400 kV	JHARSUGUDA-RAIGARH	4	0	508	0.0	6.9	-6.9	
5	400 kV	RANCHI-SIPAT	2	133	185	0.0	0.2	-0.2	
6	220 kV	BUDHIPADAR-RAIGARH	1	0	117	0.0	1.7	-1.7	
7	220 kV	BUDHIPADAR-KORBA	2	189	0	3.3	0.0	3.3	
						ER-WR	11.3	13.5	-2.2
<b>Import/Export of ER (With SR)</b>									
1	HVDC	JEYPORE-GAZUWAKA B/B	2	0	437	0.0	9.7	-9.7	
2	HVDC	TALCHER-KOLAR BIPOLE	2	0	1986	0.0	34.3	-34.3	
3	765 kV	ANGUL-SRIKAKULAM	2	0	2556	0.0	45.0	-45.0	
4	400 kV	TALCHER-I/C	2	282	835	0.0	3.4	-3.4	
5	220 kV	BALMELA-UPPER-SILERRU	1	2	0	0.0	0.0	0.0	
						ER-SR	0.0	89.0	-89.0
<b>Import/Export of ER (With NER)</b>									
1	400 kV	BINAGURI-BONGAIGAON	2	59	173	0.0	1.6	-1.5	
2	400 kV	ALIPURDUAR-BONGAIGAON	2	97	280	0.0	1.9	-1.9	
3	220 kV	ALIPURDUAR-SALAKATI	2	0	93	0.0	1.2	-1.2	
						ER-NER	0.0	4.6	-4.6
<b>Import/Export of NER (With NR)</b>									
1	HVDC	BISWANATH CHARIALI-AGRA	2	0	503	0.0	10.4	-10.4	
						NER-NR	0.0	10.4	-10.4
<b>Import/Export of WR (With NR)</b>									
1	HVDC	CHAMPA-KURUKSHETRA	2	0	326	0.0	7.6	-7.6	
2	HVDC	VINDHYACHAL B/B	-	378	0	1.6	0.0	1.6	
3	HVDC	MUNDRAL-MOHINDERGARH	2	0	299	0.0	7.4	-7.4	
4	765 kV	GWALIOR-AGRA	2	92	1271	0.0	14.6	-14.6	
5	765 kV	GWALIOR-PHAGI	2	0	1750	0.0	29.8	-29.8	
6	765 kV	JABALPUR-ORAI	2	0	340	0.0	9.9	-9.9	
7	765 kV	GWALIOR-ORAI	1	785	0	15.3	0.0	15.3	
8	765 kV	SATNA-ORAI	1	0	816	0.0	17.9	-17.9	
9	765 kV	BANASKANTHA-CHITORGARH	2	1537	0	27.9	0.0	27.9	
10	765 kV	VINDHYACHAL-VARANASI	2	0	1915	0.0	33.7	-33.7	
11	400 kV	ZERDA-KANKROLI	1	408	0	7.8	0.0	7.8	
12	400 kV	ZERDA -BHINMAL	1	600	0	10.6	0.0	10.6	
13	400 kV	VINDHYACHAL -RIHAND	1	972	0	21.5	0.0	21.5	
14	400 kV	RAPP-SHULPUR	2	165	66	1.3	0.0	1.3	
15	220 kV	BHANPURA-RANPUR	1	70	0	0.9	0.0	0.9	
16	220 kV	BHANPURA-MORAK	1	0	30	1.9	0.0	1.9	
17	220 kV	MEHGAON-AURAIYA	1	114	0	1.1	0.0	1.1	
18	220 kV	MALANPUR-AURAIYA	1	79	0	1.7	0.0	1.7	
19	132 kV	GWALIOR-SAWAIMADHOPUR	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	91.5	120.9	-29.4
<b>Import/Export of WR (With SR)</b>									
1	HVDC	BHADRAWATI B/B	-	0	718	0.0	14.2	-14.2	
2	HVDC	RAIGARH-PUGALUR	2	579	1002	0.0	6.2	-6.2	
3	765 kV	SOLAPUR-RAICHUR	2	1845	1801	0.0	3.6	-3.6	
4	765 kV	WARDHA-NIZAMABAD	2	178	1920	0.0	25.7	-25.7	
5	400 kV	KOLHAPUR-KUDGI	2	1401	0	21.0	0.0	21.0	
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	76	1.5	0.0	1.5	
						WR-SR	22.5	49.6	-27.2

INTERNATIONAL EXCHANGES			Import(+ve)/Export(-ve) Energy Exchange (MU)			
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)	475	0	431	10.4
	ER	400kV TALA-BINAGURI 1,2,3 (& 400kV MALBASE - BINAGURI) i.e. BINAGURI RECEIPT (from TALA HEP (6*170MW))	1057	0	1048	25.1
	ER	220kV CHUKHA-BIRPARA 1&2 (& 220kV MALBASE - BIRPARA) i.e. BIRPARA RECEIPT (from CHUKHA HEP 4*84MW)	268	0	248	5.9
	NER	132kV GELEPHU-SALAKATI	22	13	19	0.4
	NER	132kV MOTANGA-RANGIA	39	26	31	0.7
NEPAL	NR	132kV MAHENDRANAGAR-TANAKPUR(NHPC)	0	0	0	0.0
	ER	NEPAL IMPORT (FROM BIHAR)	0	0	0	0.0
BANGLADESH	ER	400kV DHALKEBAR-MUZAFFARPUR 1&2	70	-54	21	0.5
	ER	BHERAMARA B/B HVDC (BANGLADESH)	-730	-726	-729	-17.5
BANGLADESH	NER	132kV COMILLA-SURAJMANI NAGAR 1&2	-140	0	-119	-2.9