



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: 22nd 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 21.10.2021.

महोदय/Dear Sir,

आई०ई०जी०सी०-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 21-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 21st 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: 22-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)	48218	51831	42183	20736	2831	165799
Peak Shortage (MW)	280	3808	0	465	0	4553
Energy Met (MU)	1000	1184	965	440	51	3640
Hydro Gen (MU)	206	43	158	135	27	569
Wind Gen (MU)	36	33	16	-	-	85
Solar Gen (MU)*	66.85	46.05	88.63	4.96	0.19	207
Energy Shortage (MU)	7.44	43.32	0.00	4.39	0.05	55.20
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	49829	52167	44999	20739	2929	169274
Time Of Maximum Demand Met (From NLDC SCADA)	18:32	18:40	10:56	18:25	17:49	18:38

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	0.044	0.28	1.79	3.21	5.28	72.39	22.34

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	6991	0	144.9	72.2	-0.5	176	0.00
	Haryana	7063	0	141.9	97.3	-0.1	210	2.29
	Rajasthan	10697	0	223.6	40.7	-3.4	340	0.00
	Delhi	3750	0	72.7	62.3	-1.9	78	0.00
	UP	15811	0	298.1	122.5	-4.4	298	1.64
	Uttarakhand	1756	0	35.9	19.7	0.7	211	0.06
	HP	1624	0	31.8	15.1	-0.7	244	0.00
	J&K(UT) & Ladakh(UT)	2551	200	47.3	37.5	0.4	263	3.45
WR	Chandigarh	198	0	3.6	3.9	-0.3	15	0.00
	Chhattisgarh	4023	0	91.7	35.4	-1.2	198	0.00
	Gujarat	16611	1055	360.3	208.5	6.2	792	43.24
	MP	9290	0	194.5	123.5	-2.9	377	0.00
	Maharashtra	21597	0	477.1	162.4	2.7	1174	0.00
	Goa	635	0	14.3	10.8	2.8	67	0.08
	DD	347	0	7.8	7.3	0.5	75	0.00
	DNH	858	0	19.9	19.7	0.2	44	0.00
SR	AMNSIL	830	0	18.1	8.9	0.1	304	0.00
	Andhra Pradesh	9590	0	198.6	94.2	0.9	488	0.00
	Telangana	9363	0	195.6	31.2	-1.0	332	0.00
	Karnataka	9774	0	185.9	59.6	-1.9	500	0.00
	Kerala	3609	0	73.1	33.6	-0.4	165	0.00
	Tamil Nadu	14553	0	304.1	174.7	-0.1	474	0.00
	Puducherry	406	0	8.1	8.5	-0.4	60	0.00
	ER	Bihar	4767	139	90.3	82.2	0.9	480
DVC		3113	0	66.9	-23.1	0.2	531	0.95
Jharkhand		1418	180	25.9	20.6	-2.0	211	1.03
Odisha		5458	0	117.1	43.4	0.5	255	0.00
West Bengal		7305	0	138.5	23.5	-0.4	403	0.00
Sikkim		88	0	1.3	1.5	-0.2	11	0.00
NER	Arunachal Pradesh	131	0	2.2	2.2	-0.1	30	0.00
	Assam	1820	0	31.8	24.0	0.2	108	0.00
	Manipur	198	0	2.5	2.6	-0.1	38	0.00
	Meghalaya	351	0	6.1	1.3	-0.1	40	0.00
	Mizoram	109	0	1.6	1.3	-0.3	20	0.00
	Nagaland	121	0	2.5	1.9	0.0	30	0.00
	Tripura	271	0	4.6	4.2	0.1	135	0.05

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

	Bhutan	Nepal	Bangladesh
Actual (MU)	46.2	1.3	-20.6
Day Peak (MW)	2117.0	123.0	-877.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	144.1	-85.8	89.6	-141.0	-6.9	0.0
Actual(MU)	101.9	-60.7	94.1	-134.5	-4.7	-3.9
O/D/U/D(MU)	-42.2	25.1	4.5	6.6	2.3	-3.9

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL	% Share
Central Sector	5221	16853	9352	2420	710	34556	44
State Sector	10560	19282	7960	5525	11	43337	56
Total	15781	36134	17312	7945	722	77893	100

G. Sourcewise generation (MU)

	NR	WR	SR	ER	NER	All India	% Share
Coal	521	1082	483	455	12	2552	69
Lignite	21	8	41	0	0	71	2
Hydro	206	43	159	135	27	569	15
Nuclear	27	33	64	0	0	124	3
Gas, Naptha & Diesel	28	21	9	0	23	80	2
RES (Wind, Solar, Biomass & Others)	115	80	129	5	0	329	9
Total	919	1266	884	595	62	3725	100

Share of RES in total generation (%)	12.51	6.29	14.61	0.83	0.31	8.83
Share of Non-fossil fuel (Hydro, Nuclear and RES) in total generation(%)	37.95	12.26	39.75	23.48	43.54	27.43

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.008
Based on State Max Demands	1.046

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-Oct-2021

Sl No	Voltage Level	Line Details	No. of Circuit	Max Import (MW)	Max Export (MW)	Import (MU)	Export (MU)	NET (MU)	
Import/Export of ER (With NR)									
1	HVDC	ALIPURDUAR-AGRA	2	0	1000	0.0	23.9	-23.9	
2	HVDC	PUSAULI B/B	-	0	248	0.0	6.1	-6.1	
3	765 kV	GAYA-VARANASI	2	312	250	0.0	0.1	-0.1	
4	765 kV	SASARAM-FATEHPUR	1	5	245	0.0	3.3	-3.3	
5	765 kV	GAYA-BALIA	1	0	258	0.0	3.4	-3.4	
6	400 kV	PUSAULI-VARANASI	1	0	191	0.0	3.5	-3.5	
7	400 kV	PUSAULI-ALLAHABAD	1	0	143	0.0	2.4	-2.4	
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	0	624	0.0	10.7	-10.7	
9	400 kV	PATNA-BALIA	4	0	392	0.0	5.3	-5.3	
10	400 kV	BIHARSHARIFF-BALIA	2	84	287	0.0	3.4	-3.4	
11	400 kV	MOTIHARI-GORAKHPUR	2	12	307	0.0	5.1	-5.1	
12	400 kV	BIHARSHARIFF-VARANASI	2	140	144	0.0	0.9	-0.9	
13	220 kV	PUSAULI-SAHUPURI	1	34	62	0.0	0.0	-0.9	
14	132 kV	SONEG NAGAR-RIHAND	1	0	0	0.0	0.9	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	68.9	-68.6
Import/Export of ER (With WR)									
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	522	61	4.5	0.0	4.5	
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	362	670	0.0	1.0	-1.0	
3	765 kV	JHARSUGUDA-DURG	2	0	227	0.0	2.4	-2.4	
4	400 kV	JHARSUGUDA-RAIGARH	4	0	453	0.0	6.5	-6.5	
5	400 kV	RANCHI-SIPAT	2	99	188	0.0	0.9	-0.9	
6	220 kV	BUDHIPADAR-RAIGARH	1	21	93	0.0	1.2	-1.2	
7	220 kV	BUDHIPADAR-KORBA	2	225	0	3.4	0.0	3.4	
						ER-WR	7.9	12.0	-4.1
Import/Export of ER (With SR)									
1	HVDC	JEYPORE-GAZUWAKA B/B	2	0	443	0.0	9.9	-9.9	
2	HVDC	TALCHER-KOLAR BIPOLE	2	0	1495	0.0	36.1	-36.1	
3	765 kV	ANGUL-SRIKAKULAM	2	0	2473	0.0	47.3	-47.3	
4	400 kV	TALCHER/JC	2	0	768	0.0	3.3	-3.3	
5	220 kV	BALIMELA-UPPER-SILERRU	1	2	0	0.0	0.0	0.0	
						ER-SR	0.0	93.3	-93.3
Import/Export of ER (With NER)									
1	400 kV	BINAGURI-BONGAIGAON	2	132	416	0.4	3.8	-3.4	
2	400 kV	ALIPURDUAR-BONGAIGAON	2	294	506	0.0	1.4	-1.4	
3	220 kV	ALIPURDUAR-SALAKATI	2	10	134	0.0	1.2	-1.2	
						ER-NER	0.4	6.4	-6.0
Import/Export of NER (With NR)									
1	HVDC	BISWANATH CHARIALI-AGRA	2	0	704	0.0	13.1	-13.1	
						NER-NR	0.0	13.1	-13.1
Import/Export of WR (With NR)									
1	HVDC	CHAMPA-KURUKSHETRA	2	0	1018	0.0	19.2	-19.2	
2	HVDC	VINDHYACHAL B/B	-	450	0	9.9	0.0	9.9	
3	HVDC	MUNDRU-MOHENDERGARH	2	0	471	0.0	9.5	-9.5	
4	765 kV	GWALIOR-AGRA	2	0	1374	0.0	14.9	-14.9	
5	765 kV	GWALIOR-PHAGI	2	0	1602	0.0	27.4	-27.4	
6	765 kV	JABALPUR-ORAI	2	0	370	0.0	10.9	-10.9	
7	765 kV	GWALIOR-ORAI	1	708	0	13.4	0.0	13.4	
8	765 kV	SATNA-ORAI	1	0	816	0.0	17.7	-17.7	
9	765 kV	BANASKANTHA-CHITORGARH	2	1799	0	33.9	0.0	33.9	
10	765 kV	VINDHYACHAL-VARANASI	2	0	2268	0.0	38.4	-38.4	
11	400 kV	ZERDA-KANKROLI	1	404	0	8.5	0.0	8.5	
12	400 kV	ZERDA-BHINMAL	1	795	0	13.4	0.0	13.4	
13	400 kV	VINDHYACHAL-RIHAND	1	967	0	21.4	0.0	21.4	
14	400 kV	RAPP-SHUJALPUR	2	290	29	2.9	0.0	2.9	
15	220 kV	BHANPUR-RANPUR	1	81	0	1.0	0.0	1.0	
16	220 kV	BHANPUR-MORAK	1	0	30	2.1	0.0	2.1	
17	220 kV	MEHGAON-AURAIYA	1	128	0	1.4	0.0	1.4	
18	220 kV	MALANPUR-AURAIYA	1	96	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	109.8	137.9	-28.1
Import/Export of WR (With SR)									
1	HVDC	BHADRAWATI B/B	-	987	1019	0.0	14.2	-14.2	
2	HVDC	RAIGARH-PUGALUR	2	0	453	0.0	11.0	-11.0	
3	765 kV	SOLAPUR-RAICHUR	2	933	1468	0.0	9.5	-9.5	
4	765 kV	WARDHA-NIZAMABAD	2	0	1672	0.0	22.0	-22.0	
5	400 kV	KOLHAPUR-KUDGI	2	1122	0	18.3	0.0	18.3	
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	92	1.7	0.0	1.7	
						WR-SR	20.0	56.7	-36.6

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)	715	0	587	14.1
	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)	1051	0	1033	24.8
	ER	132kV GELEPHU-SALAKATI	35	13	24	0.6
	NER	132kV MOTANGA-RANGIA	42	15	30	0.7
	NR	132kV MAHENDRANAGAR-TANAKPUR(NHPC)	0	0	0	0.0
NEPAL	ER	NEPAL IMPORT (FROM BIHAR)	0	0	0	0.0
	ER	400kV DHALKEBAR-MUZAFFARPUR 1&2	123	-27	56	1.3
BANGLADESH	ER	BHERAMARA B/B HVDC (BANGLADESH)	-729	-656	-725	-17.4
	NER	132kV COMILLA-SURAJMANI NAGAR 1&2	-148	0	-132	-3.2