



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: 18th 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., डोंगतिह, 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 17.10.2021.

महोदय/Dear Sir,

आई०ई०जी०सी०-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 17-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 17th 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: 18-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)	43454	50420	36395	20648	2982	153899
Peak Shortage (MW)	200	686	0	570	0	1456
Energy Met (MU)	1050	1174	835	446	56	3562
Hydro Gen (MU)	208	32	150	98	21	509
Wind Gen (MU)	7	59	81	-	-	147
Solar Gen (MU)*	56.31	34.84	77.01	4.21	0.26	173
Energy Shortage (MU)	9.49	3.41	0.00	7.46	0.00	20.36
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	49691	51129	39418	20770	2991	156240
Time Of Maximum Demand Met (From NLDC SCADA)	00:07	11:07	12:36	18:58	18:39	18:54

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	0.031	0.00	0.08	4.31	4.39	71.37	24.24

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	6873	0	151.5	81.3	-1.8	104	0.00
	Haryana	6723	0	132.7	90.6	-0.7	279	4.43
	Rajasthan	11502	0	236.4	83.3	-1.1	239	1.03
	Delhi	3784	0	80.1	65.0	-1.9	94	0.00
	UP	17763	0	335.9	150.8	-3.0	436	0.58
	Uttarakhand	1776	0	35.0	19.4	-0.6	141	0.00
	HP	1512	0	30.2	11.7	-0.6	102	0.00
	J&K(UT) & Ladakh(UT)	2442	200	44.4	34.1	-0.6	628	3.45
	Chandigarh	177	0	3.6	4.4	-0.8	31	0.00
	Chhattisgarh	3976	0	95.3	45.5	-0.4	167	0.00
WR	Gujarat	16142	0	359.8	198.9	0.8	770	3.41
	MP	9714	0	213.0	145.6	-3.1	517	0.00
	Maharashtra	20181	0	448.0	159.9	-2.4	676	0.00
	Goa	587	0	13.2	11.8	0.8	34	0.00
	DD	338	0	7.6	7.3	0.3	64	0.00
	DNH	839	0	19.4	19.4	0.0	55	0.00
	AMNSIL	802	0	17.7	9.1	-0.4	305	0.00
SR	Andhra Pradesh	8945	0	182.9	70.5	0.4	1126	0.00
	Telangana	7458	0	157.4	42.7	-0.7	811	0.00
	Karnataka	7941	0	155.8	8.5	-0.7	649	0.00
	Kerala	3086	0	63.3	27.9	-1.2	324	0.00
	Tamil Nadu	12165	0	267.9	106.4	-3.2	421	0.00
	Puducherry	377	0	8.1	8.3	-0.2	32	0.00
	Bihar	5888	0	107.2	101.8	0.9	574	6.83
ER	DVC	2976	0	63.5	-28.1	-0.4	453	0.38
	Jharkhand	1312	0	26.2	21.1	-2.7	168	0.25
	Odisha	5217	0	110.6	32.0	-0.6	369	0.00
	West Bengal	7034	0	137.7	22.0	-1.3	473	0.00
NER	Sikkim	66	0	1.1	1.2	-0.1	45	0.00
	Arunachal Pradesh	131	0	2.3	2.3	-0.2	14	0.00
	Assam	1952	0	37.1	29.8	-0.6	87	0.00
	Manipur	166	0	2.5	2.4	0.1	41	0.00
	Meghalaya	310	0	5.5	3.0	0.0	32	0.00
	Mizoram	97	0	1.6	1.2	-0.2	8	0.00
	Nagaland	147	0	2.2	2.0	0.0	31	0.00
	Tripura	286	0	5.0	4.5	-0.3	44	0.00

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

	Bhutan	Nepal	Bangladesh
Actual (MU)	29.8	2.4	-20.6
Day Peak (MW)	1520.0	269.0	-864.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	209.9	-52.1	-53.0	-107.0	2.2	0.0
Actual(MU)	196.7	-53.1	-48.2	-102.2	-0.1	-7.0
O/D/U/D(MU)	-13.3	-1.0	4.8	4.8	-2.3	-7.0

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL	% Share
Central Sector	6168	15953	8452	1510	465	32547	44
State Sector	10755	18482	8485	4105	11	41837	56
Total	16923	34434	16937	5615	476	74384	100

G. Sourcewise generation (MU)

	NR	WR	SR	ER	NER	All India	% Share
Coal	521	1053	449	469	11	2502	69
Lignite	26	8	36	0	0	71	2
Hvdro	208	32	150	97	21	509	14
Nuclear	26	33	64	0	0	123	3
Gas, Naptha & Diesel	20	21	9	0	30	81	2
RES (Wind, Solar, Biomass & Others)	76	94	187	4	0	361	10
Total	879	1240	896	571	62	3648	100
Share of RES in total generation (%)	8.67	7.56	20.86	0.74	0.42	9.90	
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	35.40	12.80	44.76	17.82	33.91	27.24	

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.050
Based on State Max Demands	1.092

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: 18-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	1499	0.0	32.7	-32.7	
2	HVDC	PUSAULI B/B	-	0	248	0.0	6.0	-6.0	
3	765 kV	GAYA-VARANASI	2	388	259	2.6	0.0	2.6	
4	765 kV	SASARAM-FATEHPUR	1	146	117	0.8	0.0	0.8	
5	765 kV	GAYA-BALIA	1	0	382	0.0	5.6	-5.6	
6	400 kV	PUSAULI-VARANASI	1	0	175	0.0	3.5	-3.5	
7	400 kV	PUSAULI-ALLAHABAD	1	0	136	0.0	2.3	-2.3	
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	29	460	0.0	5.5	-5.5	
9	400 kV	PATNA-BALIA	4	114	297	0.0	2.6	-2.6	
10	400 kV	BIHARSHARIFF-BALIA	2	184	64	1.9	0.0	1.9	
11	400 kV	MOTIHARI-GORAKHPUR	2	0	262	0.0	3.4	-3.4	
12	400 kV	BIHARSHARIFF-VARANASI	2	164	117	1.2	0.0	1.2	
13	220 kV	PUSAULI-SAHUPURI	1	31	55	0.0	0.6	-0.6	
14	132 kV	SONENAGAR-RIHAND	1	0	0	0.1	0.0	0.1	
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	7.1	62.0	-54.9
Import/Export of ER (With WR)									
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	0	1076	0.0	14.0	-14.0	
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	882	297	8.8	0.0	8.8	
3	765 kV	JHARSUGUDA-DURG	2	137	190	0.0	0.3	-0.3	
4	400 kV	JHARSUGUDA-RAIGARH	4	0	423	0.0	4.7	-4.7	
5	400 kV	RANCHI-SIPAT	2	230	98	2.6	0.0	2.6	
6	220 kV	BUDHIPADAR-RAIGARH	1	0	144	0.0	2.3	-2.3	
7	220 kV	BUDHIPADAR-KORBA	2	117	1	1.7	0.0	1.7	
						ER-WR	13.1	21.2	-8.1
Import/Export of ER (With SR)									
1	HVDC	JEYPORE-GAZUWAKA B/B	2	0	546	0.0	7.8	-7.8	
2	HVDC	TALCHER-KOLAR BIPOLE	2	0	994	0.0	24.1	-24.1	
3	765 kV	ANGUL-SRIKAKULAM	2	0	2425	0.0	35.1	-35.1	
4	400 kV	TALCHER-I/C	2	437	237	7.4	0.0	7.4	
5	220 kV	BALMELA-UPPER-SILERRU	1	2	0	0.0	0.0	0.0	
						ER-SR	0.0	66.9	-66.9
Import/Export of ER (With NER)									
1	400 kV	BINAGURI-BONGAIGAON	2	0	410	0.0	5.9	-5.9	
2	400 kV	ALIPURDUAR-BONGAIGAON	2	47	252	0.0	1.2	-1.2	
3	220 kV	ALIPURDUAR-SALAKATI	2	0	101	0.0	1.5	-1.5	
						ER-NER	0.0	8.6	-8.6
Import/Export of NER (With NR)									
1	HVDC	BISWANATH CHARIALI-AGRA	2	0	503	0.0	10.0	-10.0	
						NER-NR	0.0	10.0	-10.0
Import/Export of WR (With NR)									
1	HVDC	CHAMPA-KURUKSHETRA	2	0	3027	0.0	56.7	-56.7	
2	HVDC	VINDHYACHAL B/B	-	451	0	6.9	0.0	6.9	
3	HVDC	MUNDRAMOHINDERGARH	2	0	470	0.0	10.4	-10.4	
4	765 kV	GWALIOR-AGRA	2	0	1618	0.0	23.0	-23.0	
5	765 kV	GWALIOR-PHAGI	2	0	1698	0.0	31.5	-31.5	
6	765 kV	JABALPUR-ORAI	2	0	902	0.0	26.2	-26.2	
7	765 kV	GWALIOR-ORAI	1	788	0	14.3	0.0	14.3	
8	765 kV	SATNA-ORAI	1	0	985	0.0	18.9	-18.9	
9	765 kV	BANASKANTHA-CHITORGARH	2	1516	0	21.3	0.0	21.3	
10	765 kV	VINDHYACHAL-VARANASI	2	0	3061	0.0	52.3	-52.3	
11	400 kV	ZERDA-KANKROLI	1	337	0	5.6	0.0	5.6	
12	400 kV	ZERDA -BHINMAL	1	443	0	6.8	0.0	6.8	
13	400 kV	VINDHYACHAL -RIHAND	1	954	0	21.7	0.0	21.7	
14	400 kV	RAPP-SHUALPUR	2	0	359	0.0	3.3	-3.3	
15	220 kV	BHANPURA-RANPUR	1	21	46	0.1	0.3	-0.3	
16	220 kV	BHANPURA-MORAK	1	0	30	0.5	0.0	0.5	
17	220 kV	MEHGAON-AURAIYA	1	112	0	1.1	0.0	1.1	
18	220 kV	MALANPUR-AURAIYA	1	79	0	1.8	0.0	1.8	
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	80.1	222.5	-142.4
Import/Export of WR (With SR)									
1	HVDC	BHADRAWATI B/B	-	994	0	17.9	0.0	17.9	
2	HVDC	RAIGARH-PUGALUR	2	2151	0	45.4	0.0	45.4	
3	765 kV	SOLAPUR-RAICHUR	2	1832	1303	12.1	0.0	12.1	
4	765 kV	WARDHA-NIZAMABAD	2	134	2009	0.0	21.5	-21.5	
5	400 kV	KOLHAPUR-KUDGI	2	1481	0	26.0	0.0	26.0	
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	80	1.5	0.0	1.5	
						WR-SR	102.9	21.5	81.5

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)	494	0	400	9.6
	ER	400kV TALA-BINAGURI 1,2,3 (& 400kV MALBASE - BINAGURI) i.e. BINAGURI RECEIPT (from TALA HEP (6*170MW))	698	433	606	14.6
	ER	220kV CHUKHA-BIRPARA 1&2 (& 220kV MALBASE - BIRPARA) i.e. BIRPARA RECEIPT (from CHUKHA HEP 4*84MW)	250	129	190	4.6
	NER	132kV GELEPHU-SALAKATI	29	12	17	0.4
	NER	132kV MOTANGA-RANGIA	49	0	29	0.7
NEPAL	NR	132kV MAHENDRANAGAR-TANAKPUR(NHPC)	-69	0	-2	-0.1
	ER	NEPAL IMPORT (FROM BIHAR)	180	0	43	1.0
BANGLADESH	ER	400kV DHALKEBAR-MUZAFFARPUR 1&2	158	38	60	1.4
	ER	BHERAMARA B/B HVDC (BANGLADESH)	-724	-720	-724	-17.4
BANGLADESH	NER	132kV COMILLA-SURAJMANI NAGAR 1&2	-140	0	-136	-3.3