



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: 08th 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 07.10.2021.

महोदय/Dear Sir,

आई०ई०जी०सी०-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 07-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 07th 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: 08-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)	49127	53625	41531	20672	2950	167905
Peak Shortage (MW)	8359	617	70	2367	213	11626
Energy Met (MU)	1192	1201	947	488	60	3887
Hydro Gen (MU)	220	81	160	110	27	599
Wind Gen (MU)	4	25	42	-	-	71
Solar Gen (MU)*	63.53	38.00	86.90	4.68	0.27	193
Energy Shortage (MU)	78.67	2.66	1.31	30.77	1.05	114.46
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	55022	53652	44833	23488	3052	172113
Time Of Maximum Demand Met (From NLDC SCADA)	11:52	18:54	14:49	21:17	19:56	11:01

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	0.132	2.49	8.31	17.05	27.84	69.29	2.87

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	9145	150	193.3	93.9	-2.5	20	5.73
	Haryana	8080	0	170.8	119.1	-0.2	175	6.69
	Rajasthan	12082	2894	216.2	76.0	3.2	427	44.28
	Delhi	4979	0	107.0	74.4	-1.1	134	0.00
	UP	16830	360	381.6	154.2	-1.9	306	15.66
	Uttarakhand	1911	0	39.0	17.2	1.4	127	2.86
	HP	1508	0	31.8	9.1	-0.6	144	0.00
	J&K(UT) & Ladakh(UT)	2510	200	47.2	31.6	3.3	576	3.45
	Chandigarh	254	0	5.2	5.0	0.2	61	0.00
	Chhattisgarh	4182	15	98.4	50.8	2.2	395	0.44
WR	Gujarat	16524	0	359.7	181.8	9.6	758	1.98
	MP	10760	0	233.6	135.8	1.9	431	0.00
	Maharashtra	20592	0	451.9	148.8	-1.7	1034	0.00
	Goa	595	0	12.7	11.8	0.5	58	0.12
	DD	337	0	7.4	6.7	0.7	92	0.24
	DNH	844	0	18.9	19.1	-0.2	133	0.00
	AMNSIL	849	0	18.2	4.3	-0.3	327	0.00
SR	Andhra Pradesh	8378	0	181.3	86.1	2.1	561	1.29
	Telangana	10327	0	209.8	40.5	0.4	461	0.02
	Karnataka	8136	0	168.5	38.1	-1.3	668	0.00
	Kerala	3694	0	75.7	40.2	-0.5	210	0.00
	Tamil Nadu	14524	0	303.2	146.7	0.4	566	0.00
	Puducherry	406	0	8.3	8.4	-0.1	41	0.00
ER	Bihar	5800	0	101.3	93.5	1.2	433	20.57
	DVC	3115	0	64.3	-20.2	1.0	373	1.22
	Jharkhand	1386	0	27.6	20.4	0.7	211	8.98
	Odisha	5797	0	123.0	36.3	-0.5	259	0.00
	West Bengal	8626	0	169.8	38.8	-0.3	264	0.00
NER	Sikkim	97	0	1.6	1.6	0.0	23	0.00
	Arunachal Pradesh	152	0	2.5	2.0	0.4	68	0.00
	Assam	2011	56	38.3	29.9	0.8	309	0.89
	Manipur	195	0	2.6	2.6	-0.1	23	0.00
	Meghalaya	314	0	6.0	0.3	0.1	46	0.13
	Mizoram	111	14	2.0	0.5	0.6	31	0.03
	Nagaland	125	0	2.5	1.8	0.2	32	0.00
	Tripura	308	7	5.9	4.2	0.9	67	0.00

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

	Bhutan	Nepal	Bangladesh
Actual (MU)	30.0	3.1	-20.3
Day Peak (MW)	1519.0	227.0	-878.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	222.2	-126.3	-8.1	-88.8	1.0	0.0
Actual(MU)	211.0	-123.2	-5.8	-85.4	1.2	-2.2
O/D/U/D(MU)	-11.2	3.1	2.3	3.4	0.2	-2.2

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL	% Share
Central Sector	3762	17210	7772	2860	539	32143	43
State Sector	10350	17770	8820	4860	11	41811	57
Total	14112	34980	16592	7720	551	73954	100

G. Sourcewise generation (MU)

	NR	WR	SR	ER	NER	All India	% Share
Coal	589	1092	530	480	11	2703	68
Lignite	23	12	40	0	0	75	2
Hvdro	220	81	160	110	27	599	15
Nuclear	31	33	68	0	0	131	3
Gas, Naptha & Diesel	61	53	9	0	25	148	4
RES (Wind, Solar, Biomass & Others)	80	63	158	5	0	307	8
Total	1004	1355	965	595	63	3962	100
Share of RES in total generation (%)	7.98	4.74	16.42	0.79	0.43	7.74	
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	32.95	13.28	40.00	19.32	43.71	26.17	

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.046
Based on State Max Demands	1.078

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: 08-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	1502	0.0	35.9	-35.9	
2	HVDC	PUSAULI B/B	-	0	247	0.0	6.1	-6.1	
3	765 kV	GAYA-VARANASI	2	450	0	7.2	0.0	7.2	
4	765 kV	SASARAM-FATEHPUR	1	144	0	2.1	0.0	2.1	
5	765 kV	GAYA-BALIA	1	0	489	0.0	8.7	-8.7	
6	400 kV	PUSAULI-VARANASI	1	0	184	0.0	3.9	-3.9	
7	400 kV	PUSAULI-ALLAHABAD	1	0	116	0.0	2.0	-2.0	
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	72	380	0.0	3.4	-3.4	
9	400 kV	PATNA-BALIA	4	0	648	0.0	11.1	-11.1	
10	400 kV	BIHARSHARIFF-BALIA	2	147	226	0.0	1.6	-1.6	
11	400 kV	MOTIHARI-GORAKHPUR	2	0	200	0.0	2.6	-2.6	
12	400 kV	BIHARSHARIFF-VARANASI	2	197	0	2.5	0.0	2.5	
13	220 kV	PUSAULI-SAHUPURI	1	33	46	0.0	0.2	-0.2	
14	132 kV	SONE NAGAR-RIHAND	1	0	0	0.0	0.0	0.0	
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	12.1	75.4	-63.3
Import/Export of ER (With WR)									
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	711	469	2.6	0.0	2.6	
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	1256	0	18.7	0.0	18.7	
3	765 kV	JHARSUGUDA-DURG	2	251	7	3.2	0.0	3.2	
4	400 kV	JHARSUGUDA-RAIGARH	4	105	409	0.0	2.3	-2.3	
5	400 kV	RANCHI-SIPAT	2	323	1	4.8	0.0	4.8	
6	220 kV	BUDHIPADAR-RAIGARH	1	0	144	0.0	1.7	-1.7	
7	220 kV	BUDHIPADAR-KORBA	2	134	17	1.6	0.0	1.6	
						ER-WR	30.8	4.0	26.8
Import/Export of ER (With SR)									
1	HVDC	JEYPORE-GAZUWAKA B/B	2	341	452	0.0	3.7	-3.7	
2	HVDC	TALCHER-KOLAR BIPOLE	2	0	1392	0.0	33.7	-33.7	
3	765 kV	ANGUL-SRIKAKULAM	2	0	2708	0.0	38.8	-38.8	
4	400 kV	TALCHER-I/C	2	27	63	0.0	0.5	-0.5	
5	220 kV	BALMELA-UPPER-SILERRU	1	2	0	0.0	0.0	0.0	
						ER-SR	0.0	76.2	-76.2
Import/Export of ER (With NER)									
1	400 kV	BINAGURI-BONGAIGAON	2	0	308	0.0	7.3	-7.3	
2	400 kV	ALIPURDUAR-BONGAIGAON	2	40	254	0.0	2.1	-2.1	
3	220 kV	ALIPURDUAR-SALAKATI	2	0	104	0.0	1.6	-1.6	
						ER-NER	0.0	11.0	-11.0
Import/Export of NER (With NR)									
1	HVDC	BISWANATH CHARIALI-AGRA	2	0	603	0.0	11.2	-11.2	
						NER-NR	0.0	11.2	-11.2
Import/Export of WR (With NR)									
1	HVDC	CHAMPA-KURUKSHETRA	2	0	3027	0.0	67.4	-67.4	
2	HVDC	VINDHYACHAL B/B	-	451	0	10.1	0.0	10.1	
3	HVDC	MUNDRAL-MOHINDERGARH	2	0	29	0.0	7.4	-7.4	
4	765 kV	GWALIOR-AGRA	2	184	1669	0.1	21.4	-21.3	
5	765 kV	GWALIOR-PHAGI	2	0	1652	0.0	28.5	-28.5	
6	765 kV	JABALPUR-ORAI	2	0	889	0.0	27.9	-27.9	
7	765 kV	GWALIOR-ORAI	1	704	0	12.7	0.0	12.7	
8	765 kV	SATNA-ORAI	1	0	1021	0.0	20.2	-20.2	
9	765 kV	BANASKANTHA-CHITORGARH	2	1757	0	27.4	0.0	27.4	
10	765 kV	VINDHYACHAL-VARANASI	2	0	3250	0.0	62.2	-62.2	
11	400 kV	ZERDA-KANKROLI	1	406	0	6.0	0.0	6.0	
12	400 kV	ZERDA - BHINMAL	1	592	0	8.5	0.0	8.5	
13	400 kV	VINDHYACHAL -RIHAND	1	960	0	22.3	0.0	22.3	
14	400 kV	RAPP-SHUALPUR	2	197	301	0.7	2.6	-1.9	
15	220 kV	BHANPURA-RANPUR	1	71	59	0.5	0.3	0.2	
16	220 kV	BHANPURA-MORAK	1	0	30	1.4	0.0	1.3	
17	220 kV	MEHGAON-AURAIYA	1	149	0	1.6	0.0	1.6	
18	220 kV	MALANPUR-AURAIYA	1	111	0	2.5	0.0	2.5	
19	132 kV	GWALIOR-SAWAI MADHOPUR	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	93.7	237.8	-144.1
Import/Export of WR (With SR)									
1	HVDC	BHADRAWATI B/B	-	402	0	9.7	0.0	9.7	
2	HVDC	RAIGARH-PUGALUR	2	2151	0	40.9	0.0	40.9	
3	765 kV	SOLAPUR-RAICHUR	2	1341	1834	0.0	4.1	-4.1	
4	765 kV	WARDHA-NIZAMABAD	2	0	2101	0.0	23.4	-23.4	
5	400 kV	KOLHAPUR-KUDGI	2	1533	0	22.9	0.0	22.9	
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	78	1.5	0.0	1.5	
						WR-SR	75.1	27.5	47.6

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)	538	0	408	9.8
	ER	400kV TALA-BINAGURI 1,2,3 (& 400kV MALBASE - BINAGURI) i.e. BINAGURI RECEIPT (from TALA HEP (6*170MW))	696	0	599	14.4
	ER	220kV CHUKHA-BIRPARA 1&2 (& 220kV MALBASE - BIRPARA) i.e. BIRPARA RECEIPT (from CHUKHA HEP 4*84MW)	227	198	198	4.8
	NER	132kV GELEPHU-SALAKATI	0	0	0	0.0
	NER	132kV MOTANGA-RANGIA	58	31	45	1.1
NEPAL	NR	132kV MAHENDRANAGAR-TANAKPUR(NHPC)	-56	0	-3	-0.1
	ER	NEPAL IMPORT (FROM BIHAR)	160	0	94	2.3
BANGLADESH	ER	400kV DHALKEBAR-MUZAFFARPUR 1&2	123	0	38	0.9
	ER	BHERAMARA B/B HVDC (BANGLADESH)	-755	-660	-725	-17.4
BANGLADESH	NER	132kV COMILLA-SURAJMANI NAGAR 1&2	-123	0	-120	-2.9