



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: 13th 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 12.10.2021.

महोदय/Dear Sir,

आई०ई०जी०सी०-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 12-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 12th 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: 13-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)	51501	53359	39259	21649	3117	168885
Peak Shortage (MW)	2205	1608	500	1094	184	5591
Energy Met (MU)	1239	1215	921	480	63	3918
Hydro Gen (MU)	214	74	155	111	23	576
Wind Gen (MU)	3	10	97	-	-	110
Solar Gen (MU)*	61.30	41.21	96.91	5.03	0.30	205
Energy Shortage (MU)	52.60	12.89	0.76	15.27	0.51	82.03
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	58213	54095	43618	22619	3356	174309
Time Of Maximum Demand Met (From NLDC SCADA)	10:29	18:50	09:52	00:04	17:45	10:29

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	0.096	0.53	4.39	24.21	29.13	65.02	5.86

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	9235	900	186.5	93.9	-1.0	135	15.32
	Haryana	8569	0	175.2	126.2	0.3	190	8.25
	Rajasthan	12632	0	240.8	84.3	2.8	352	17.88
	Delhi	4707	0	101.5	75.8	-0.4	139	0.00
	UP	20050	0	413.4	178.7	0.8	387	5.28
	Uttarakhand	1886	0	39.1	19.3	1.5	143	2.42
	HP	1553	0	30.5	12.0	0.3	167	0.00
	J&K(UT) & Ladakh(UT)	2528	200	47.6	35.4	0.4	165	3.45
	Chandigarh	243	0	4.8	4.6	0.3	71	0.00
	Chhattisgarh	4378	0	101.4	55.6	0.4	265	0.00
WR	Gujarat	16089	0	358.7	211.6	1.3	767	12.45
	MP	11054	0	238.9	149.4	-0.9	531	0.00
	Maharashtra	20775	0	457.8	139.9	-0.9	599	0.00
	Goa	581	0	13.5	11.5	1.4	64	0.28
	DD	340	0	7.5	7.0	0.5	56	0.16
	DNH	848	0	19.7	19.5	0.2	56	0.00
	AMNSIL	825	0	17.7	8.3	0.0	346	0.00
SR	Andhra Pradesh	9064	0	185.4	85.3	3.9	1005	0.76
	Telangana	10034	0	204.9	32.7	-1.1	374	0.00
	Karnataka	8404	0	166.4	29.2	-2.9	518	0.00
	Kerala	3361	0	69.0	36.1	-0.5	189	0.00
	Tamil Nadu	13858	0	287.2	102.4	-4.5	386	0.00
	Puducherry	353	0	7.7	8.1	-0.5	25	0.00
ER	Bihar	5759	0	108.2	100.3	1.2	738	7.76
	DVC	2971	0	62.5	-30.3	3.8	568	1.74
	Jharkhand	1504	0	29.7	21.2	0.6	169	5.17
	Odisha	5283	0	111.3	22.2	0.7	584	0.60
	West Bengal	8470	0	167.2	29.4	-0.7	645	0.00
NER	Sikkim	94	0	1.5	1.0	0.5	69	0.00
	Arunachal Pradesh	140	0	2.4	2.3	0.0	38	0.00
	Assam	2132	0	41.5	33.0	0.6	181	0.51
	Manipur	215	0	2.8	2.8	0.0	48	0.00
	Meghalaya	322	0	5.6	2.8	-0.1	44	0.00
	Mizoram	112	0	1.7	1.1	0.0	18	0.00
	Nagaland	147	0	2.4	2.0	0.1	46	0.00
	Tripura	330	0	6.3	5.3	0.0	49	0.00

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

	Bhutan	Nepal	Bangladesh
Actual (MU)	25.8	6.3	-20.2
Day Peak (MW)	1419.0	352.1	-859.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	241.6	-82.2	-77.3	-88.0	6.0	0.0
Actual(MU)	238.5	-81.8	-86.3	-77.1	4.3	-2.3
O/D/U/D(MU)	-3.1	0.5	-8.9	10.9	-1.7	-2.3

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL	% Share
Central Sector	3172	17377	8312	3660	409	32930	44
State Sector	9635	19124	8330	4540	11	41640	56
Total	12807	36501	16642	8200	420	74571	100

G. Sourcewise generation (MU)

	NR	WR	SR	ER	NER	All India	% Share
Coal	629	1110	523	456	10	2728	68
Lignite	25	7	44	0	0	76	2
Hydro	214	74	155	111	23	576	14
Nuclear	31	33	69	0	0	132	3
Gas, Naptha & Diesel	54	35	9	0	30	128	3
RES (Wind, Solar, Biomass & Others)	75	51	222	5	0	353	9
Total	1027	1310	1022	572	64	3995	100
Share of RES in total generation (%)	7.34	3.93	21.71	0.88	0.47	8.86	
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	31.12	12.03	43.63	20.23	36.38	26.59	

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.044
Based on State Max Demands	1.083

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: 13-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	28.0	-28.0	
2	HVDC	PUSAULI B/B	-	0	249	0.0	6.2	-6.2	
3	765 kV	GAYA-VARANASI	2	352	162	1.7	0.0	1.7	
4	765 kV	SASARAM-FATEHPUR	1	70	182	0.0	1.4	-1.4	
5	765 kV	GAYA-BALIA	1	0	428	0.0	7.8	-7.8	
6	400 kV	PUSAULI-VARANASI	1	0	180	0.0	3.6	-3.6	
7	400 kV	PUSAULI-ALLAHABAD	1	0	132	0.0	2.4	-2.4	
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	26	422	0.0	5.3	-5.3	
9	400 kV	PATNA-BALIA	4	0	407	0.0	6.2	-6.2	
10	400 kV	BIHARSHARIFF-BALIA	2	186	88	0.8	0.0	0.8	
11	400 kV	MOTIHARI-GORAKHPUR	2	0	272	0.0	4.1	-4.1	
12	400 kV	BIHARSHARIFF-VARANASI	2	145	84	0.5	0.0	0.5	
13	220 kV	PUSAULI-SAHUPURI	1	20	86	0.0	1.0	-1.0	
14	132 kV	SONENAGAR-RIHAND	1	0	0	0.0	0.0	0.0	
15	132 kV	GARWAH-RIHAND	1	0	0	0.0	0.0	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	3.0	66.0	-62.9
Import/Export of ER (With WR)									
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	731	570	0.0	0.0	0.0	
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	1154	28	13.7	0.0	13.7	
3	765 kV	JHARSUGUDA-DURG	2	331	3	2.1	0.0	2.1	
4	400 kV	JHARSUGUDA-RAIGARH	4	0	387	0.0	5.1	-5.1	
5	400 kV	RANCHI-SIPAT	2	268	14	3.5	0.0	3.5	
6	220 kV	BUDHIPADAR-RAIGARH	1	0	179	0.0	3.3	-3.3	
7	220 kV	BUDHIPADAR-KORBA	2	46	50	0.0	0.0	0.0	
						ER-WR	19.4	8.4	10.9
Import/Export of ER (With SR)									
1	HVDC	JEYPORE-GAZUWAKA B/B	2	280	339	0.0	0.9	-0.9	
2	HVDC	TALCHER-KOLAR BIPOLE	2	0	891	0.0	13.7	-13.7	
3	765 kV	ANGUL-SRIKAKULAM	2	0	2224	0.0	30.9	-30.9	
4	400 kV	TALCHER-I/C	2	1144	0	19.9	0.0	19.9	
5	220 kV	BALMELA-UPPER-SILERRU	1	2	0	0.0	0.0	0.0	
						ER-SR	0.0	45.5	-45.5
Import/Export of ER (With NER)									
1	400 kV	BINAGURI-BONGAIGAON	2	0	492	0.0	9.2	-9.2	
2	400 kV	ALIPURDUAR-BONGAIGAON	2	0	574	0.0	6.7	-6.7	
3	220 kV	ALIPURDUAR-SALAKATI	2	0	154	0.0	2.4	-2.4	
						ER-NER	0.0	18.2	-18.2
Import/Export of NER (With NR)									
1	HVDC	BISWANATH CHARIALI-AGRA	2	0	703	0.0	15.6	-15.6	
						NER-NR	0.0	15.6	-15.6
Import/Export of WR (With NR)									
1	HVDC	CHAMPA-KURUKSHETRA	2	0	3528	0.0	70.4	-70.4	
2	HVDC	VINDHYACHAL B/B	-	364	0	9.7	0.0	9.7	
3	HVDC	MUNDRAL-MOHENDERGARH	2	0	29	0.0	7.4	-7.4	
4	765 kV	GWALIOR-AGRA	2	0	2023	0.0	28.9	-28.9	
5	765 kV	GWALIOR-PHAGI	2	0	1856	0.0	36.7	-36.7	
6	765 kV	JABALPUR-ORAI	2	0	932	0.0	33.4	-33.4	
7	765 kV	GWALIOR-ORAI	1	685	0	14.0	0.0	14.0	
8	765 kV	SATNA-ORAI	1	0	1077	0.0	22.2	-22.2	
9	765 kV	BANASKANTHA-CHITORGARH	2	1779	0	32.1	0.0	32.1	
10	765 kV	VINDHYACHAL-VARANASI	2	0	3075	0.0	61.3	-61.3	
11	400 kV	ZERDA-KANKROLI	1	411	0	6.8	0.0	6.8	
12	400 kV	ZERDA -BHNMAL	1	519	0	8.7	0.0	8.7	
13	400 kV	VINDHYACHAL -RIHAND	1	972	0	22.3	0.0	22.3	
14	400 kV	RAPP-SHUALPUR	2	81	373	0.1	4.3	-4.2	
15	220 kV	BHANPURA-RANPUR	1	69	63	0.3	0.3	0.0	
16	220 kV	BHANPURA-MORAK	1	0	30	1.1	0.0	1.0	
17	220 kV	MEHGAON-AURAIYA	1	150	0	1.5	0.0	1.5	
18	220 kV	MALANPUR-AURAIYA	1	110	0	2.1	0.0	2.1	
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	98.5	264.9	-166.4
Import/Export of WR (With SR)									
1	HVDC	BHADRAWATI B/B	-	990	0	13.1	0.0	13.1	
2	HVDC	RAIGARH-PUGALUR	2	2151	0	51.7	0.0	51.7	
3	765 kV	SOLAPUR-RAICHUR	2	2068	967	20.2	4.0	16.3	
4	765 kV	WARDHA-NIZAMABAD	2	355	1651	0.9	14.3	-13.4	
5	400 kV	KOLHAPUR-KUDGI	2	1595	0	26.5	0.0	26.5	
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	102	1.6	0.0	1.6	
						WR-SR	114.0	18.2	95.8

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)	491	0	359	8.6
	ER	400kV TALA-BINAGURI 1,2,3 (& 400kV MALBASE - BINAGURI) i.e. BINAGURI RECEIPT (from TALA HEP (6*170MW))	653	487	498	12.0
	ER	220kV CHUKHA-BIRPARA 1&2 (& 220kV MALBASE - BIRPARA) i.e. BIRPARA RECEIPT (from CHUKHA HEP 4*84MW)	194	165	166	4.0
	NER	132kV GELEPHU-SALAKATI	24	0	7	0.2
	NER	132kV MOTANGA-RANGIA	58	31	46	1.1
NEPAL	NR	132kV MAHENDRANAGAR-TANAKPUR(NHPC)	-55	0	-4	-0.1
	ER	NEPAL IMPORT (FROM BIHAR)	231	89	155	3.7
BANGLADESH	ER	400kV DHALKEBAR-MUZAFFARPUR 1&2	176	0	112	2.7
	ER	BHERAMARA B/B HVDC (BANGLADESH)	-719	-710	-717	-17.2
	NER	132kV COMILLA-SURAJMANI NAGAR 1&2	-140	0	-126	-3.0