



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: 06th 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 05.10.2021.

महोदय/Dear Sir,

आई०ई०जी०सी०-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 05-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 05th 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: 06-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)	50318	50855	40503	20891	2926	165493
Peak Shortage (MW)	6029	1327	0	2180	0	9536
Energy Met (MU)	1201	1157	954	466	52	3830
Hydro Gen (MU)	244	81	163	114	27	630
Wind Gen (MU)	11	27	17	-	-	55
Solar Gen (MU)*	62.29	37.48	83.03	4.62	0.16	188
Energy Shortage (MU)	49.21	9.70	0.00	16.77	0.10	75.78
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	53978	51532	46125	21379	2979	169870
Time Of Maximum Demand Met (From NLDC SCADA)	10:19	18:44	11:40	21:17	19:15	10:16

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	0.099	0.69	7.15	17.74	25.59	71.20	3.22

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	9175	650	183.5	94.4	-1.2	141	7.78
	Haryana	8216	0	177.1	126.9	-1.0	240	5.34
	Rajasthan	10828	232	223.0	64.9	3.7	642	24.20
	Delhi	5349	0	112.4	86.7	-0.4	232	0.00
	UP	17712	0	382.0	160.1	-0.3	412	6.76
	Uttarakhand	2024	0	41.5	18.6	1.2	161	0.76
	HP	1399	0	29.6	5.1	0.7	235	0.92
	J&K(UT) & Ladakh(UT)	2604	200	46.2	27.6	2.1	320	3.45
WR	Chhattisgarh	264	0	5.5	4.8	0.6	99	0.00
	Chhattisgarh	4010	0	94.4	42.5	0.1	255	0.00
	Gujarat	14687	207	333.2	181.0	7.7	1213	9.70
	MP	10384	0	226.2	133.7	-0.1	452	0.00
	Maharashtra	20825	0	449.3	153.9	-2.6	578	0.00
	Goa	616	0	13.7	12.6	0.5	48	0.00
	DD	350	0	7.6	6.8	0.8	85	0.00
	DNH	860	0	14.5	19.4	-4.9	99	0.00
SR	AMNSIL	842	0	18.3	8.1	0.0	328	0.00
	Andhra Pradesh	9477	0	195.7	97.7	3.7	1174	0.00
	Telangana	9841	0	197.4	36.1	-2.5	384	0.00
	Karnataka	9194	0	183.6	49.7	-2.6	644	0.00
	Kerala	3543	0	74.0	36.5	-0.4	261	0.00
	Tamil Nadu	13697	0	295.6	179.2	-0.5	747	0.00
	Puducherry	374	0	8.0	8.5	-0.5	22	0.00
ER	Bihar	4964	1738	94.4	86.2	1.6	574	8.29
	DVC	2947	350	62.8	-26.5	3.2	467	2.78
	Jharkhand	1320	480	25.3	20.1	-1.2	189	5.70
	Odisha	5534	0	114.5	27.5	-0.3	339	0.00
	West Bengal	8122	0	166.9	38.8	-1.1	258	0.00
NER	Sikkim	93	0	1.6	1.3	0.3	46	0.00
	Arunachal Pradesh	143	0	2.4	2.1	0.1	39	0.00
	Assam	1864	0	33.1	25.3	0.4	160	0.10
	Manipur	194	0	2.6	2.7	-0.1	32	0.00
	Meghalaya	309	0	5.7	0.4	-0.1	32	0.00
	Mizoram	112	0	1.7	0.8	0.4	26	0.00
	Nagaland	131	0	2.3	2.1	-0.3	18	0.00
	Tripura	274	0	4.6	5.7	-0.3	22	0.00

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

	Bhutan	Nepal	Bangladesh
Actual (MU)	31.7	2.3	-20.1
Day Peak (MW)	1434.0	244.0	-857.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	210.9	-132.9	55.2	-124.9	-8.2	0.0
Actual(MU)	188.3	-124.0	57.8	-114.0	-9.8	-1.6
O/D/U/D(MU)	-22.6	8.9	2.7	11.0	-1.6	-1.6

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL	% Share
Central Sector	3467	17049	7992	3580	409	32497	41
State Sector	11305	19470	10280	4815	11	45881	59
Total	14772	36519	18272	8395	420	78378	100

G. Sourcewise generation (MU)

	NR	WR	SR	ER	NER	All India	% Share
Coal	584	1063	509	481	11	2649	68
Lignite	26	12	35	0	0	73	2
Hydro	244	81	163	114	27	630	16
Nuclear	31	33	65	0	0	128	3
Gas, Naptha & Diesel	53	49	9	0	29	140	4
RES (Wind, Solar, Biomass & Others)	87	66	131	5	0	288	7
Total	1025	1303	913	600	67	3908	100
Share of RES in total generation (%)	8.45	5.03	14.37	0.77	0.24	7.37	
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	35.28	13.78	39.36	19.83	40.12	26.77	

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.036
Based on State Max Demands	1.073

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: 06-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	35.3	-35.3	
2	HVDC	PUSAULI B/B	-	0	247	0.0	5.9	-5.9	
3	765 kV	GAYA-VARANASI	2	291	119	1.9	0.0	1.9	
4	765 kV	SASARAM-FATEHPUR	1	54	127	0.0	1.4	-1.4	
5	765 kV	GAYA-BALIA	1	0	407	0.0	8.3	-8.3	
6	400 kV	PUSAULI-VARANASI	1	0	178	0.0	3.3	-3.3	
7	400 kV	PUSAULI-ALLAHABAD	1	0	137	0.0	2.6	-2.6	
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	0	430	0.0	7.2	-7.2	
9	400 kV	PATNA-BALIA	4	0	632	0.0	12.7	-12.7	
10	400 kV	BIHARSHARIFF-BALIA	2	0	198	0.0	3.2	-3.2	
11	400 kV	MOTIHARI-GORAKHPUR	2	0	265	0.0	4.6	-4.6	
12	400 kV	BIHARSHARIFF-VARANASI	2	91	92	0.1	0.0	0.1	
13	220 kV	PUSAULI-SAHUPURI	1	3	58	0.0	0.6	-0.6	
14	132 kV	SONE NAGAR-RIHAND	1	0	0	0.0	0.2	-0.2	
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	2.3	85.3	-83.0
Import/Export of ER (With WR)									
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	848	0	12.8	0.0	12.8	
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	869	0	13.8	0.0	13.8	
3	765 kV	JHARSUGUDA-DURG	2	186	0	2.8	0.0	2.8	
4	400 kV	JHARSUGUDA-RAIGARH	4	0	321	0.0	4.7	-4.7	
5	400 kV	RANCHI-SIPAT	2	256	0	3.5	0.0	3.5	
6	220 kV	BUDHIPADAR-RAIGARH	1	0	152	0.0	2.5	-2.5	
7	220 kV	BUDHIPADAR-KORBA	2	108	0	1.8	0.0	1.8	
						ER-WR	34.8	7.3	27.5
Import/Export of ER (With SR)									
1	HVDC	JEYPORE-GAZUWAKA B/B	2	0	391	0.0	8.7	-8.7	
2	HVDC	TALCHER-KOLAR BIPOLE	2	0	1391	0.0	33.7	-33.7	
3	765 kV	ANGUL-SRIKAKULAM	2	0	2689	0.0	47.5	-47.5	
4	400 kV	TALCHER-I/C	2	24	129	0.0	1.2	-1.2	
5	220 kV	BALIMELA-UPPER-SILERRU	1	2	0	0.0	0.0	0.0	
						ER-SR	89.8	0.0	-89.8
Import/Export of ER (With NER)									
1	400 kV	BINAGURI-BONGAIGAON	2	0	310	0.0	5.3	-5.3	
2	400 kV	ALIPURDUAR-BONGAIGAON	2	195	271	0.6	0.0	0.6	
3	220 kV	ALIPURDUAR-SALAKATI	2	0	112	0.0	1.2	-1.2	
						ER-NER	0.6	6.5	-5.9
Import/Export of NER (With NR)									
1	HVDC	BISWANATH CHARIALI-AGRA	2	0	703	0.0	17.0	-17.0	
						NER-NR	0.0	17.0	-17.0
Import/Export of WR (With NR)									
1	HVDC	CHAMPA-KURUKSHETRA	2	0	1005	0.0	22.9	-22.9	
2	HVDC	VINDHYACHAL B/B	-	451	0	12.1	0.0	12.1	
3	HVDC	MUNDRAL-MOHINDERGARH	2	0	445	0.0	9.7	-9.7	
4	765 kV	GWALIOR-AGRA	2	0	1633	0.0	23.8	-23.8	
5	765 kV	GWALIOR-PHAGI	2	0	1623	0.0	29.5	-29.5	
6	765 kV	JABALPUR-ORAI	2	0	755	0.0	28.1	-28.1	
7	765 kV	GWALIOR-ORAI	1	612	0	11.1	0.0	11.1	
8	765 kV	SATNA-ORAI	1	0	979	0.0	20.8	-20.8	
9	765 kV	BANASKANTHA-CHITORGARH	2	1518	0	27.0	0.0	27.0	
10	765 kV	VINDHYACHAL-VARANASI	2	0	2592	0.0	50.9	-50.9	
11	400 kV	ZERDA-KANKROLI	1	349	0	6.2	0.0	6.2	
12	400 kV	ZERDA -BHNMAL	1	496	0	9.1	0.0	9.1	
13	400 kV	VINDHYACHAL -RIHAND	1	953	0	22.2	0.0	22.2	
14	400 kV	RAPP-SHUALPUR	2	87	278	0.2	2.6	-2.4	
15	220 kV	BHANPURA-RANPUR	1	51	40	0.2	0.3	-0.1	
16	220 kV	BHANPURA-MORAK	1	0	30	0.0	0.9	0.9	
17	220 kV	MEHGAON-AURAIYA	1	183	0	2.0	0.0	2.0	
18	220 kV	MALANPUR-AURAIYA	1	140	0	2.9	0.0	2.9	
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	93.8	188.5	-94.7
Import/Export of WR (With SR)									
1	HVDC	BHADRAWATI B/B	-	510	0	9.8	0.0	9.8	
2	HVDC	RAIGARH-PUGALUR	2	971	0	23.2	0.0	23.2	
3	765 kV	SOLAPUR-RAICHUR	2	0	2010	0.0	21.9	-21.9	
4	765 kV	WARDHA-NIZAMABAD	2	0	2161	0.0	32.2	-32.2	
5	400 kV	KOLHAPUR-KUDGI	2	1112	0	17.7	0.0	17.7	
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	94	1.8	0.0	1.8	
						WR-SR	52.4	54.1	-1.7

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)	428	0	388	9.3
	ER	400kV TALA-BINAGURI 1,2,3 (& 400kV MALBASE - BINAGURI) i.e. BINAGURI RECEIPT (from TALA HEP (6*170MW))	676	631	638	15.3
	ER	220kV CHUKHA-BIRPARA 1&2 (& 220kV MALBASE - BIRPARA) i.e. BIRPARA RECEIPT (from CHUKHA HEP 4*84MW)	265	243	250	6.0
	NER	132kV GELEPHU-SALAKATI	13	0	5	0.1
	NER	132kV MOTANGA-RANGIA	53	27	41	1.0
NEPAL	NR	132kV MAHENDRANAGAR-TANAKPUR(NHPC)	-46	0	-2	-0.1
	ER	NEPAL IMPORT (FROM BIHAR)	212	0	78	1.9
BANGLADESH	ER	400kV DHALKEBAR-MUZAFFARPUR 1&2	78	-100	21	0.5
	ER	BHERAMARA B/B HVDC (BANGLADESH)	-726	-715	-718	-17.2
	NER	132kV COMILLA-SURAJMANI NAGAR 1&2	-131	0	-118	-2.8