



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: 02nd 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 01.10.2021.

महोदय/Dear Sir,

आई०ई०जी०सी०-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 01-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 01st 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: 02-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)	52382	49666	40428	20832	3194	166502
Peak Shortage (MW)	2035	535	390	1190	0	4150
Energy Met (MU)	1233	1117	982	429	59	3820
Hydro Gen (MU)	276	67	167	115	24	649
Wind Gen (MU)	4	64	19	-	-	86
Solar Gen (MU)*	55.33	38.71	86.50	4.48	0.31	185
Energy Shortage (MU)	13.33	1.70	0.39	3.57	0.00	18.99
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	55063	50167	47718	21096	3199	169599
Time Of Maximum Demand Met (From NLDC SCADA)	21:03	18:56	09:55	21:34	18:43	11:26

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	0.053	0.53	1.33	9.35	11.21	69.47	19.31

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	9681	0	199.6	96.2	-0.1	206	2.20
	Haryana	8671	0	188.2	140.6	1.7	377	2.39
	Rajasthan	9624	0	215.3	62.9	-0.7	200	0.32
	Delhi	5150	0	111.5	98.6	0.1	206	0.02
	UP	18950	170	392.7	136.6	-0.8	341	4.89
	Uttarakhand	1928	0	41.9	18.0	0.2	156	0.06
	HP	1462	0	31.7	2.8	-0.2	263	0.00
	J&K(UT) & Ladakh(UT)	2425	200	46.9	26.2	-0.6	317	3.45
	Chandigarh	269	0	5.5	5.4	0.1	44	0.00
WR	Chhattisgarh	3919	0	90.7	41.1	1.6	236	0.03
	Gujarat	13748	501	312.0	149.5	3.8	1083	1.67
	MP	10294	0	221.1	128.4	-0.3	486	0.00
	Maharashtra	19592	0	435.5	154.8	-2.5	1369	0.00
	Goa	617	0	12.8	11.6	0.5	42	0.00
	DD	335	0	7.6	7.1	0.5	91	0.00
	DNH	819	0	19.1	19.2	-0.1	86	0.00
	AMNSIL	841	0	17.8	6.6	1.2	89	0.00
	Andhra Pradesh	8795	0	189.6	85.6	0.9	654	0.00
	Telangana	10239	0	201.5	36.7	1.9	721	0.00
SR	Karnataka	11197	0	201.4	58.6	-1.2	494	0.00
	Kerala	3625	0	74.4	44.3	-0.5	187	0.39
	Tamil Nadu	13956	0	306.3	200.6	3.6	1147	0.00
	Puducherry	405	0	8.8	8.9	-0.1	53	0.00
	Bihar	4962	0	86.2	85.4	0.0	344	2.40
ER	DVC	2706	0	49.4	-17.6	4.0	864	0.00
	Jharkhand	1473	0	24.5	20.8	-1.3	259	1.17
	Odisha	4976	0	105.3	25.8	0.8	342	0.00
	West Bengal	8274	0	162.5	40.1	1.0	281	0.00
	Sikkim	97	0	1.6	1.5	0.1	25	0.00
NER	Arunachal Pradesh	132	0	2.3	2.1	0.0	58	0.00
	Assam	2057	0	39.4	30.7	1.3	100	0.00
	Manipur	199	0	2.7	2.6	0.1	40	0.00
	Meghalaya	322	0	5.6	3.0	0.1	43	0.00
	Mizoram	113	0	1.5	1.1	0.0	32	0.00
	Nagaland	141	0	2.6	2.1	0.0	25	0.00
	Tripura	321	0	5.2	4.9	0.0	50	0.00

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

	Bhutan	Nepal	Bangladesh
Actual (MU)	34.2	1.4	-20.1
Day Peak (MW)	1763.0	149.6	-863.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	209.0	-153.4	83.9	-140.1	0.5	0.0
Actual(MU)	187.0	-153.3	89.5	-131.0	0.6	-7.2
O/D/U/D(MU)	-22.0	0.1	5.6	9.1	0.1	-7.2

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL	% Share
Central Sector	4238	18698	6992	2530	409	32866	43
State Sector	9310	19463	9528	5635	11	43947	57
Total	13548	38161	16520	8165	420	76813	100

G. Sourcewise generation (MU)

	NR	WR	SR	ER	NER	All India	% Share
Coal	622	1032	487	465	11	2618	67
Lignite	28	11	44	0	0	83	2
Hydro	276	67	167	115	24	649	17
Nuclear	31	33	65	0	0	128	3
Gas, Naptha & Diesel	32	34	10	0	29	104	3
RES (Wind, Solar, Biomass & Others)	74	103	136	4	0	318	8
Total	1063	1279	909	584	64	3900	100

Share of RES in total generation (%)	6.94	8.05	15.01	0.76	0.48	8.15
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	35.82	15.83	40.54	20.36	37.61	28.08

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.045
Based on State Max Demands	1.075

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: 02-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	37.2	-37.2	
2	HVDC	PUSAULI B/B	-	0	245	0.0	5.7	-5.7	
3	765 kV	GAYA-VARANASI	2	500	172	2.6	0.0	2.6	
4	765 kV	SASARAM-FATEHPUR	1	169	127	0.0	0.5	-0.5	
5	765 kV	GAYA-BALIA	1	0	466	0.0	7.2	-7.2	
6	400 kV	PUSAULI-VARANASI	1	0	191	0.0	3.5	-3.5	
7	400 kV	PUSAULI-ALLAHABAD	1	0	117	0.0	2.2	-2.2	
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	152	459	0.0	5.1	-5.1	
9	400 kV	PATNA-BALIA	4	0	645	0.0	10.3	-10.3	
10	400 kV	BIHARSHARIFF-BALIA	2	160	119	0.0	0.3	-0.3	
11	400 kV	MOTIHARI-GORAKHPUR	2	7	270	0.0	3.6	-3.6	
12	400 kV	BIHARSHARIFF-VARANASI	2	186	64	1.8	0.0	1.8	
13	220 kV	PUSAULI-SAHUPURI	1	45	60	0.0	0.5	-0.5	
14	132 kV	SONE NAGAR-RIHAND	1	0	0	0.0	0.0	0.0	
15	132 kV	GARWAH-RIHAND	1	20	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	4.4	76.1	-71.7
Import/Export of ER (With WR)									
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	730	304	4.7	0.0	4.7	
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	862	117	13.1	0.0	13.1	
3	765 kV	JHARSUGUDA-DURG	2	57	192	0.0	1.0	-1.0	
4	400 kV	JHARSUGUDA-RAIGARH	4	195	284	0.0	1.1	-1.1	
5	400 kV	RANCHI-SIPAT	2	260	21	3.9	0.0	3.9	
6	220 kV	BUDHIPADAR-RAIGARH	1	0	144	0.0	2.3	-2.3	
7	220 kV	BUDHIPADAR-KORBA	2	157	0	2.5	0.0	2.5	
						ER-WR	24.2	4.4	19.8
Import/Export of ER (With SR)									
1	HVDC	JEYPORE-GAZUWAKA B/B	2	0	508	0.0	11.3	-11.3	
2	HVDC	TALCHER-KOLAR BIPOLE	2	0	1991	0.0	42.7	-42.7	
3	765 kV	ANGUL-SRIKAKULAM	2	0	2741	0.0	48.3	-48.3	
4	400 kV	TALCHER-I/C	2	0	697	0.0	9.3	-9.3	
5	220 kV	BALIMELA-UPPER-SILERRU	1	2	0	0.0	0.0	0.0	
						ER-SR	0.0	102.4	-102.4
Import/Export of ER (With NER)									
1	400 kV	BINAGURI-BONGAIGAON	2	0	366	0.0	8.3	-8.3	
2	400 kV	ALIPURDUAR-BONGAIGAON	2	46	413	0.0	4.0	-4.0	
3	220 kV	ALIPURDUAR-SALAKATI	2	0	130	0.0	2.1	-2.1	
						ER-NER	0.0	14.4	-14.4
Import/Export of NER (With NR)									
1	HVDC	BISWANATH CHARIALI-AGRA	2	0	704	0.0	15.2	-15.2	
						NER-NR	0.0	15.2	-15.2
Import/Export of WR (With NR)									
1	HVDC	CHAMPA-KURUKSHETRA	2	0	1507	0.0	29.8	-29.8	
2	HVDC	VINDHYACHAL B/B	-	227	101	5.4	0.1	5.3	
3	HVDC	MUNDRA-MOHINDERGARH	2	0	495	0.0	12.2	-12.2	
4	765 kV	GWALIOR-AGRA	2	0	1486	0.0	19.7	-19.7	
5	765 kV	GWALIOR-PHAGI	2	0	1419	0.0	26.2	-26.2	
6	765 kV	JABALPUR-ORAI	2	0	757	0.0	24.5	-24.5	
7	765 kV	GWALIOR-ORAI	1	628	0	11.4	0.0	11.4	
8	765 kV	SATNA-ORAI	1	0	885	0.0	18.1	-18.1	
9	765 kV	BANASKANTHA-CHITORGARH	2	1200	0	15.9	0.0	15.9	
10	765 kV	VINDHYACHAL-VARANASI	2	0	2541	0.0	48.5	-48.5	
11	400 kV	ZERDA-KANKROLI	1	291	0	4.5	0.0	4.5	
12	400 kV	ZERDA-BHINMAL	1	418	0	6.8	0.0	6.8	
13	400 kV	VINDHYACHAL-RIHAND	1	969	0	21.6	0.0	21.6	
14	400 kV	RAPP-SHUALPUR	2	132	272	0.0	1.8	-1.8	
15	220 kV	BHANPURA-RANPUR	1	46	28	0.2	0.1	0.1	
16	220 kV	BHANPURA-MORAK	1	0	30	1.0	0.0	1.0	
17	220 kV	MEHGAON-AURAIYA	1	179	0	1.8	0.0	1.8	
18	220 kV	MALANPUR-AURAIYA	1	137	0	2.6	0.0	2.6	
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	71.2	181.0	-109.8
Import/Export of WR (With SR)									
1	HVDC	BHADRAWATI B/B	-	530	0	12.0	0.0	12.0	
2	HVDC	RAIGARH-PUGALUR	2	481	0	11.2	0.0	11.2	
3	765 kV	SOLAPUR-RAICHUR	2	0	2198	0.0	26.9	-26.9	
4	765 kV	WARDHA-NIZAMABAD	2	0	2463	0.0	37.2	-37.2	
5	400 kV	KOLHAPUR-KUDGI	2	1136	0	15.7	0.0	15.7	
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	80	1.6	0.0	1.6	
						WR-SR	40.4	64.1	-23.7

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)	467	0	435	10.5
	ER	400kV TALA-BINAGURI 1,2,4 (& 400kV MALBASE - BINAGURI) i.e. BINAGURI RECEIPT (from TALA HEP (6*170MW)	888	0	688	16.5
	ER	220kV CHUKHA-BIRPARA 1&2 (& 220kV MALBASE - BIRPARA) i.e. BIRPARA RECEIPT (from CHUKHA HEP 4*84MW)	300	0	236	5.7
	NER	132kV GELEPHU-SALAKATI	21	10	16	0.4
	NER	132kV MOTANGA-RANGIA	87	37	48	1.2
NEPAL	NR	132kV MAHENDRANAGAR-TANAKPUR(NHPC)	-59	0	-5	-0.1
	ER	NEPAL IMPORT (FROM BIHAR)	116	0	27	0.6
	ER	400kV DHALKEBAR-MUZAFFARPUR 1&2	93	0	35	0.9
BANGLADESH	ER	BHERAMARA B/B HVDC (BANGLADESH)	-727	0	-714	-17.1
	NER	132kV COMILLA-SURAJMANI NAGAR 1&2	-136	0	-122	-2.9