



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: 1st Nov 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 31.10.2021.

महोदय/Dear Sir,

आईईजीसी-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 31-अक्टूबर-2021 की अखिल भारतीय प्रणाली की दैनिक ग्रिड निष्पादन रिपोर्ट रांभांप्रेके 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 31st 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: 01-Nov-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)	43224	51012	37441	20088	2531	154296
Peak Shortage (MW)	200	0	0	94	0	294
Energy Met (MU)	879	1192	855	408	47	3381
Hydro Gen (MU)	173	40	146	83	18	460
Wind Gen (MU)	5	28	22	-	-	55
Solar Gen (MU)*	65.44	43.65	73.01	4.49	0.28	187
Energy Shortage (MU)	5.09	0.00	0.00	0.38	0.05	5.52
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	44221	53945	40507	20468	2678	158085
Time Of Maximum Demand Met (From NLDC SCADA)	18:27	11:15	09:54	17:53	17:38	18:28

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	0.032	0.00	0.32	6.08	6.40	86.16	7.44

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	5439	0	111.1	63.1	-0.8	125	0.00
	Haryana	5381	0	111.0	80.3	0.7	242	0.00
	Rajasthan	12042	0	226.6	79.0	-1.7	330	0.00
	Delhi	3180	0	60.9	49.9	-1.0	121	0.00
	UP	14183	0	254.8	116.0	-2.0	239	1.64
	Uttarakhand	1737	0	34.1	18.0	0.6	158	0.00
	HP	1616	0	31.0	16.5	0.0	285	0.00
	J&K(UT) & Ladakh(UT)	2519	200	47.2	39.6	0.0	256	3.45
	Chandigarh	157	0	2.8	4.2	-1.4	0	0.00
WR	Chhattisgarh	3770	0	84.5	29.3	-0.7	206	0.00
	Gujarat	15900	0	351.0	216.5	0.9	727	0.00
	MP	10773	0	216.1	152.9	0.4	496	0.00
	Maharashtra	22414	0	484.0	166.1	-4.4	735	0.00
	Goa	535	0	12.9	10.1	2.2	30	0.00
	DD	324	0	7.3	7.2	0.1	82	0.00
	DNH	817	0	19.0	19.0	0.0	40	0.00
	AMNSIL	772	0	17.4	9.1	-0.3	298	0.00
	SR	Andhra Pradesh	7859	0	172.1	63.6	-0.9	815
Telangana		8216	0	171.3	32.6	-1.3	541	0.00
Karnataka		8930	0	172.2	57.9	-1.9	625	0.00
Kerala		3246	0	66.9	30.2	-0.8	225	0.00
Tamil Nadu		12057	0	264.9	167.6	0.4	410	0.00
Puducherry		334	0	7.3	7.7	-0.4	19	0.00
Bihar		4526	0	75.9	71.8	-0.3	292	0.27
DVC		3202	0	68.4	-30.1	-1.7	342	0.11
Jharkhand		1496	0	25.1	22.2	-3.1	145	0.00
ER	Odisha	5474	0	113.4	55.6	-0.8	276	0.00
	West Bengal	6621	0	123.4	-6.2	1.2	341	0.00
	Sikkim	90	0	1.5	1.2	0.3	35	0.00
	Arunachal Pradesh	116	0	1.9	2.0	-0.2	24	0.00
	NER	Assam	1578	0	29.1	20.9	0.8	93
Manipur		181	0	2.4	2.5	-0.1	30	0.05
Meghalaya		361	0	6.3	3.5	0.2	55	0.00
Mizoram		108	0	1.5	0.6	-0.3	18	0.00
Nagaland		134	0	2.0	2.1	-0.4	25	0.00
Tripura		275	0	4.2	3.5	-0.5	56	0.00

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

	Bhutan	Nepal	Bangladesh
Actual (MU)	28.5	0.5	-20.4
Day Peak (MW)	1267.0	71.0	-865.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	163.9	-77.4	58.8	-140.5	-4.8	0.0
Actual(MU)	145.4	-60.3	60.4	-144.8	-5.9	-5.1
O/D/U/D(MU)	-18.5	17.1	1.6	-4.3	-1.0	-5.1

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL	% Share
Central Sector	6138	14510	8572	1260	580	31059	40
State Sector	14616	18791	10421	3455	11	47293	60
Total	20754	33300	18993	4715	591	78352	100

G. Sourcewise generation (MU)

	NR	WR	SR	ER	NER	All India	% Share
Coal	424	1107	424	483	11	2448	71
Lignite	28	10	39	0	0	76	2
Hydro	173	40	146	83	18	460	13
Nuclear	32	33	69	0	0	134	4
Gas, Naptha & Diesel	16	10	8	0	30	64	2
RES (Wind, Solar, Biomass & Others)	81	72	120	5	0	278	8
Total	753	1273	806	570	58	3461	100

Share of RES in total generation (%)	10.76	5.65	14.90	0.79	0.48	8.03
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	37.98	11.42	41.54	15.38	30.76	25.19

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.024
Based on State Max Demands	1.052

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: 01-Nov-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	500	0.0	11.1	-11.1
2	HVDC	PUSAULI B/B	-	0	249	0.0	6.0	-6.0
3	765 kV	GAYA-VARANASI	2	198	711	0.0	4.2	-4.2
4	765 kV	SASARAM-FATEHPUR	1	0	518	0.0	5.0	-5.0
5	765 kV	GAYA-BALIA	1	0	520	0.0	9.1	-9.1
6	400 kV	PUSAULLY-VARANASI	1	0	180	0.0	3.4	-3.4
7	400 kV	PUSAULI-ALLAHABAD	1	0	161	0.0	2.6	-2.6
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	0	743	0.0	11.5	-11.5
9	400 kV	PATNA-BALIA	4	0	829	0.0	12.9	-12.9
10	400 kV	BIHARSHARIFF-BALIA	2	0	567	0.0	7.9	-7.9
11	400 kV	MOTIHARI-GORAKHPUR	2	0	434	0.0	6.1	-6.1
12	400 kV	BIHARSHARIFF-VARANASI	2	58	335	0.0	2.3	-2.3
13	220 kV	PUSAULLI-SAHUPURI	1	22	69	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	25	0	0.3	0.0	0.3
16	132 kV	KARMANASA-SAHUPURI	1	0	0	0.0	0.0	0.0
17	132 kV	KARMANASA-CHANDALI	1	0	0	0.0	0.0	0.0
ER-NR						0.3	82.8	-82.4
Import/Export of ER (With WR)								
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	562	306	1.8	0.0	1.8
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	318	683	0.0	3.9	-3.9
3	765 kV	JHARSUGUDA-DURG	2	15	218	0.0	2.7	-2.7
4	400 kV	JHARSUGUDA-RAIGARH	4	191	280	0.0	1.4	-1.4
5	400 kV	RANCHI-SIPAT	2	142	234	0.0	1.5	-1.5
6	220 kV	BUDHIPADAR-RAIGARH	1	6	102	0.0	1.1	-1.1
7	220 kV	BUDHIPADAR-KORBA	2	140	0	2.1	0.0	2.1
ER-WR						4.0	10.5	-6.5
Import/Export of ER (With SR)								
1	HVDC	JEYPORE-GAZIWAKA B/B	2	0	492	0.0	11.0	-11.0
2	HVDC	TALCHER-KOLAR BIPOLE	2	0	1630	0.0	39.7	-39.7
3	765 kV	ANGUL-SIRSAKULAM	2	0	2075	0.0	39.5	-39.5
4	400 kV	TALCHER-IC	2	0	839	0.0	7.1	-7.1
5	220 kV	BALIMELA-UPPER-SILERRU	1	2	0	0.0	0.0	0.0
ER-SR						0.0	90.2	-90.2
Import/Export of ER (With NER)								
1	400 kV	BINAGURI-BONGAIGAON	2	81	162	0.0	1.6	-1.6
2	400 kV	ALIPURDUAR-BONGAIGAON	2	0	132	0.0	0.9	-0.9
3	220 kV	ALIPURDUAR-SALAKATI	2	0	58	0.0	0.9	-0.9
ER-NER						0.0	3.4	-3.4
Import/Export of NER (With NR)								
1	HVDC	BISWANATH CHARIALI-AGRA	2	0	503	0.0	9.7	-9.7
NER-NR						0.0	9.7	-9.7
Import/Export of WR (With NR)								
1	HVDC	CHAMPA-KURUKSHETRA	2	0	703	0.0	13.3	-13.3
2	HVDC	VINDHYACHAL B/B	-	450	0	10.1	0.0	10.1
3	HVDC	MUNDIRA-MOHINDERGARH	2	0	0	0.0	0.0	0.0
4	765 kV	GWALIOR-AGRA	2	0	1900	0.0	31.5	-31.5
5	765 kV	GWALIOR-PHAGI	2	0	2241	0.0	37.3	-37.3
6	765 kV	JABALPUR-ORAI	2	0	465	0.0	14.7	-14.7
7	765 kV	GWALIOR-ORAI	1	1240	0	23.2	0.0	23.2
8	765 kV	SATNA-ORAI	1	0	787	0.0	16.7	-16.7
9	765 kV	BANASKANTHA-CHITORGARH	2	1329	0	24.1	0.0	24.1
10	765 kV	VINDHYACHAL-VARANASI	2	0	2319	0.0	44.8	-44.8
11	400 kV	ZERDA-KANKROLI	1	364	0	6.3	0.0	6.3
12	400 kV	ZERDA-BHINMAL	1	561	0	7.9	0.0	7.9
13	400 kV	VINDHYACHAL-RIHAND	1	961	0	21.8	0.0	21.8
14	400 kV	RAPP-SHUALPUR	2	128	316	0.3	2.2	-1.9
15	220 kV	BHANPURA-RANPUR	1	83	9	1.0	0.0	1.0
16	220 kV	BHANPURA-MORAK	1	0	30	2.1	0.0	2.1
17	220 kV	MEHGAON-AURAIYA	1	90	0	0.7	0.0	0.7
18	220 kV	MALANPUR-AURAIYA	1	62	0	1.2	0.0	1.2
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						98.7	160.5	-61.8
Import/Export of WR (With SR)								
1	HVDC	BHADRAWATI B/B	-	594	0	14.3	0.0	14.3
2	HVDC	RAIGARH-PUGALUR	2	0	605	0.0	14.2	-14.2
3	765 kV	SOLAPUR-RAICHUR	2	713	1029	3.6	5.0	-1.3
4	765 kV	WARDHA-NIZAMABAD	2	0	1770	0.0	25.6	-25.6
5	400 kV	KOLHAPUR-KUDGI	2	1258	0	21.0	0.0	21.0
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	74	1.4	0.0	1.4
WR-SR						40.4	44.7	-4.3

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)	323	0	295	7.1
	ER	400kV TALA-BINAGURI 1,2,4 & 400kV MALBASE - BINAGURI i.e. BINAGURI RECEIPT (from TALA HEP (6*170MW))	688	686	688	16.6
	ER	220kV CHUKHA-BIRPARA 1&2 (& 220kV MALBASE - BIRPARA) i.e. BIRPARA RECEIPT (from CHUKHA HEP 4*84MW)	212	0	163	3.9
	NER	132kV GELEPHU-SALAKATI	18	11	15	0.4
	NER	132kV MOTANGA-RANGIA	26	19	21	0.5
NEPAL	NR	132kV MAHENDRANAGAR-TANAKPUR(NHPC)	0	0	0	0.0
	ER	NEPAL IMPORT (FROM BIHAR)	0	0	0	0.0
	ER	400kV DHALKEBAR-MUZAFFARPUR 1&2	71	-39	22	0.5
BANGLADESH	ER	BHERAMARA B/B HVDC (BANGLADESH)	-733	-720	-731	-17.5
	NER	132kV COMILLA-SURAJMANI NAGAR 1&2	-132	0	-118	-2.8