



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: 31st October 2022

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 30.10.2022.

महोदय/Dear Sir,

आईईजीसी-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 30-अक्टूबर-2022 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 30th Oct 2022, 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: 31-Oct-2022

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)	44239	48878	37328	19592	2581	152618
Peak Shortage (MW)	100	0	0	455	0	555
Energy Met (MU)	983	1152	819	425	48	3428
Hydro Gen (MU)	150	29	116	73	29	397
Wind Gen (MU)	4	60	35	-	-	99
Solar Gen (MU)*	110.44	51.70	85.19	5.61	0.93	254
Energy Shortage (MU)	1.06	0.00	0.00	1.52	0.00	2.58
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	46997	52288	42041	20344	2693	160272
Time Of Maximum Demand Met (From NLDC SCADA)	10:56	11:00	09:47	18:02	17:31	10:47

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	0.024	0.00	0.17	2.57	2.74	83.42	13.84

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	5898	0	119.2	56.4	-1.3	86	0.00
	Haryana	5582	0	118.3	64.4	-1.9	98	0.00
	Rajasthan	13832	0	265.6	97.3	1.1	316	0.00
	Delhi	3237	0	64.2	57.4	-1.7	100	0.00
	UP	15905	0	297.1	89.2	-0.4	639	0.00
	Uttarakhand	1846	0	33.7	20.2	-0.4	139	0.11
	HP	1611	0	29.9	14.6	-0.5	36	0.00
	J&K(UT) & Ladakh(UT)	2507	50	52.0	45.5	1.7	214	0.95
WR	Chhattisgarh	169	0	3.1	3.2	-0.2	27	0.00
	Gujarat	3950	0	89.0	32.2	0.1	255	0.00
	MP	16011	0	336.7	211.5	0.4	673	0.00
	Maharashtra	11320	0	233.6	119.5	0.0	571	0.00
	Goa	20173	0	441.5	145.0	-1.5	599	0.00
	DNHDDPDCL	569	0	10.4	11.5	-1.7	32	0.00
	AMNSIL	1098	0	25.3	25.3	0.0	63	0.00
SR	Andhra Pradesh	726	0	15.6	8.8	0.4	347	0.00
	Telangana	9312	0	188.6	69.4	-0.3	403	0.00
	Karnataka	9165	0	172.2	34.0	-0.2	452	0.00
	Kerala	9065	0	168.2	45.7	-0.7	712	0.00
	Tamil Nadu	3471	0	71.4	46.9	0.6	189	0.00
	Puducherry	12955	0	211.3	144.9	0.0	391	0.00
ER	Bihar	339	0	7.8	7.3	-0.2	45	0.00
	DVC	4501	0	87.1	78.5	-1.0	645	0.00
	Jharkhand	3188	0	69.4	-28.2	0.4	504	0.00
	Odisha	1528	0	28.7	18.7	-0.6	367	1.52
	West Bengal	5137	0	105.4	33.1	-1.5	410	0.00
	Sikkim	6707	0	133.2	-0.2	0.6	389	0.00
NER	Arunachal Pradesh	89	0	1.3	1.1	0.1	38	0.00
	Assam	125	0	2.5	2.4	-0.1	12	0.00
	Manipur	1585	0	28.7	20.6	0.2	100	0.00
	Meghalaya	186	0	2.5	2.5	0.0	22	0.00
	Mizoram	339	0	6.4	3.8	0.2	96	0.00
	Nagaland	95	0	1.4	1.0	-0.4	36	0.00
	Tripura	132	0	2.0	1.8	-0.1	20	0.00

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

	Bhutan	Nepal	Bangladesh
Actual (MU)	15.1	6.2	-24.1
Day Peak (MW)	730.0	296.0	-1071.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	135.3	-36.3	48.6	-139.2	-8.3	0.0
Actual(MU)	134.8	-36.9	44.3	-138.7	-7.8	-4.4
O/D/U/D(MU)	-0.5	-0.6	-4.3	0.6	0.5	-4.4

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL	% Share
Central Sector	7392	20791	7088	5170	922	41362	51
State Sector	10650	16131	9290	2920	99	39090	49
Total	18042	36922	16378	8090	1021	80452	100

G. Sourcewise generation (MU)

	NR	WR	SR	ER	NER	All India	% Share
Coal	591	1019	416	513	8	2547	71
Lignite	25	13	47	0	0	85	2
Hydro	151	29	116	73	29	397	11
Nuclear	26	40	66	0	0	132	4
Gas, Nantha & Diesel	12	2	4	0	24	41	1
RES (Wind, Solar, Biomass & Others)	119	113	164	6	1	402	11
Total	924	1214	813	591	62	3604	100

Share of RES in total generation (%)	12.91	9.27	20.17	0.95	1.51	11.16
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	32.05	14.95	42.48	13.26	48.33	25.84

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.026
Based on State Max Demands	1.077

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: 31-Oct-2022

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	742	0.0	18.4	-18.4
2	HVDC	PUSAULI B/B	-	0	346	0.0	8.6	-8.6
3	765 kV	GAYA-VARANASI	2	350	608	0.0	5.0	-5.0
4	765 kV	SASARAM-FATEHPUR	1	36	380	0.0	4.9	-4.9
5	765 kV	GAYA-BALIA	1	0	485	0.0	8.4	-8.4
6	400 kV	PUSAULI-VARANASI	1	0	244	0.0	5.1	-5.1
7	400 kV	PUSAULI-ALLAHABAD	1	0	168	0.0	3.3	-3.3
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	0	694	0.0	10.8	-10.8
9	400 kV	PATNA-BALIA	2	1	320	0.0	5.0	-5.0
10	400 kV	NAUBATPUR-BALIA	2	28	339	0.0	5.0	-5.0
11	400 kV	BIHARSHARIFF-BALIA	2	131	219	0.0	1.6	-1.6
12	400 kV	MOTIHARI-GORAKHPUR	2	0	358	0.0	5.7	-5.7
13	400 kV	BIHARSHARIFF-VARANASI	2	193	188	0.0	0.8	-0.8
14	220 kV	SAHUPURI-KARAMNESA	1	53	82	0.0	0.6	-0.6
15	132 kV	NAGAR UNTARI-RIHAND	1	0	0	0.0	0.0	0.0
16	132 kV	GARWAH-RIHAND	1	25	0	0.4	0.0	0.4
17	132 kV	KARMANASA-SAHUPURI	1	0	0	0.0	0.0	0.0
18	132 kV	KARMANASA-CHANDAULI	1	0	0	0.0	0.0	0.0
ER-NR						0.4	82.9	-82.5
Import/Export of ER (With WR)								
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	280	379	0.0	0.6	-0.6
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	559	532	3.6	0.0	3.6
3	765 kV	JHARSUGUDA-DURG	2	0	487	0.0	8.3	-8.3
4	400 kV	JHARSUGUDA-RAIGARH	4	60	358	0.0	3.2	-3.2
5	400 kV	RANCHI-SIPAT	2	153	185	0.0	0.1	-0.1
6	220 kV	BUDHIPADAR-RAIGARH	1	17	94	0.0	0.7	-0.7
7	220 kV	BUDHIPADAR-KORBA	2	167	0	2.3	0.0	2.3
ER-WR						5.9	12.9	-7.0
Import/Export of ER (With SR)								
1	HVDC	JEYPORE-GAZUWAKA B/B	2	0	541	0.0	8.4	-8.4
2	HVDC	TALCHER-KOLAR BIPOLE	2	0	1646	0.0	39.5	-39.5
3	765 kV	ANGUL-SRIKAKULAM	2	0	2222	0.0	38.5	-38.5
4	400 kV	TALCHER-I/C	2	239	368	0.0	3.4	-3.4
5	220 kV	BALIMELA-UPPER-SILERRU	1	0	0	0.0	0.0	0.0
ER-SR						0.0	86.5	-86.5
Import/Export of ER (With NER)								
1	400 kV	BINAGURI-BONGAIGAON	2	0	421	0.0	5.9	-5.9
2	400 kV	ALIPURDUAR-BONGAIGAON	2	183	192	0.0	0.2	-0.2
3	220 kV	ALIPURDUAR-SALAKATI	2	0	43	0.0	0.5	-0.5
ER-NER						0.0	6.6	-6.6
Import/Export of NER (With NR)								
1	HVDC	BISWANATH CHARIALI-AGRA	2	0	701	0.0	14.9	-14.9
NER-NR						0.0	14.9	-14.9
Import/Export of WR (With NR)								
1	HVDC	CHAMPA-KURUKSHETRA	2	0	1014	0.0	22.4	-22.4
2	HVDC	VINDHYACHAL B/B	-	438	0	12.1	0.0	12.1
3	HVDC	MUNDRRA-MOHINDERGARH	2	0	0	0.0	0.0	0.0
4	765 kV	GWALIOR-AGRA	2	0	1373	0.0	22.2	-22.2
5	765 kV	GWALIOR-PHAGI	2	0	2188	0.0	33.9	-33.9
6	765 kV	JABALPUR-ORAI	2	0	506	0.0	16.6	-16.6
7	765 kV	GWALIOR-ORAI	1	1020	0	17.7	0.0	17.7
8	765 kV	SATNA-ORAI	1	0	880	0.0	17.9	-17.9
9	765 kV	BANASKANTHA-CHITORGARH	2	2578	0	39.4	0.0	39.4
10	765 kV	VINDHYACHAL-VARANASI	2	0	2208	0.0	37.1	-37.1
11	400 kV	ZERDA-KANKROLI	1	413	0	6.0	0.0	6.0
12	400 kV	ZERDA-BHINMAL	1	608	0	6.4	0.0	6.4
13	400 kV	VINDHYACHAL-RIHAND	1	962	0	21.8	0.0	21.8
14	400 kV	RAPP-SHUJALPUR	2	274	350	1.1	3.8	-2.7
15	220 kV	BHANPURA-RANPUR	1	0	0	0.0	0.0	0.0
16	220 kV	BHANPURA-MORAK	1	0	30	0.0	1.5	-1.5
17	220 kV	MEHGAON-AURAIYA	1	100	0	0.8	0.0	0.8
18	220 kV	MALANPUR-AURAIYA	1	76	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						106.6	155.3	-48.7
Import/Export of WR (With SR)								
1	HVDC	BHADRAWATI B/B	-	297	0	7.2	0.0	7.2
2	HVDC	RAIGARH-PUGALUR	2	0	604	0.0	14.5	-14.5
3	765 kV	SOLAPUR-RAICHUR	2	1429	544	12.2	0.6	11.6
4	765 kV	WARDHA-NIZAMABAD	2	0	1791	0.0	20.0	-20.0
5	400 kV	KOLHAPUR-KUDGI	2	1079	0	18.5	0.0	18.5
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	96	1.9	0.0	1.9
WR-SR						39.7	35.0	4.7

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)	203	0	173	4.1
	ER	400kV TALA-BINAGURI 1,2,4 (& 400kV MALBASE - BINAGURI) i.e. BINAGURI RECEIPT (from TALA HEP 6*170MW)	425	0	399	9.6
	ER	220kV CHUKHA-BIRPARA 1&2 (& 220kV MALBASE - BIRPARA) i.e. BIRPARA RECEIPT (from CHUKHA HEP 4*84MW)	103	0	86	2.1
	NER	132kV GELEPHU-SALAKATI	-10	0	-7	-0.2
	NER	132kV MOTANGA-RANGIA	-27	-18	-23	-0.6
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	296	115	256	6.2
BANGLADESH	ER	BHERAMARA B/B HVDC (BANGLADESH)	-925	-732	-873	-20.9
	NER	132kV COMILLA-SURAJMANI NAGAR 1&2	-146	0	-130	-3.1