



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: 30th November 2022

To,

- कार्यकारी निदेशक, पू.क्षे.भा.प्रे.के.,14, गोल्फ क्लब रोड, कोलकाता - 700033
Executive Director, ERLDC, 14 Golf Club Road, Tollygunge, Kolkata, 700033
- 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
- 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
- कार्यकारी निदेशक, ऊ.पू.क्षे.भा.प्रे.के., डोंगतेह, लोअर नोंग्रह, लापलंग, शिलोंग - 793006
Executive Director, NERLDC, Dongteih, Lower Nongrah, Lapalang, Shillong - 793006, Meghalaya
- 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 29.11.2022.

महोदय/Dear Sir,

आईईजीसी-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 29-नवंबर-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 29th November 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: 30-Nov-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)	48326	56380	41531	19352	2578	168167
Peak Shortage (MW)	0	0	0	481	0	481
Energy Met (MU)	1074	1387	941	390	46	3839
Hydro Gen (MU)	130	41	85	36	13	306
Wind Gen (MU)	16	57	15	-	-	88
Solar Gen (MU)*	98.59	50.39	96.45	4.70	0.88	251
Energy Shortage (MU)	1.31	0.00	0.00	4.71	0.00	6.02
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	53848	66608	47254	19611	2726	185849
Time Of Maximum Demand Met (From NLDC SCADA)	11:13	10:46	09:55	17:41	17:25	10:57

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	0.061	0.17	1.92	14.06	16.16	70.96	12.88

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	6900	0	135.2	43.0	-0.9	211	0.00
	Haryana	7116	125	135.7	69.3	1.3	198	0.83
	Rajasthan	15734	0	305.4	106.1	0.3	259	0.00
	Delhi	3617	0	65.2	59.2	-1.7	126	0.00
	UP	16361	0	301.6	80.8	0.1	326	0.00
	Uttarakhand	1907	0	37.4	25.6	0.4	161	0.23
	HP	1901	0	33.4	23.2	-0.3	35	0.03
	J&K(UT) & Ladakh(UT)	2569	80	56.9	49.8	0.5	191	0.22
	Chandigarh	209	0	3.4	3.6	-0.2	20	0.00
	Chhattisgarh	4071	0	87.2	34.1	-0.6	245	0.00
WR	Gujarat	19268	0	393.8	241.5	-4.3	675	0.00
	MP	15748	0	309.7	189.8	-2.8	1043	0.00
	Maharashtra	25645	0	538.6	166.2	0.4	670	0.00
	Goa	648	0	12.2	13.0	-1.3	58	0.00
	DNHDDPDCL	1199	0	27.4	27.2	0.2	48	0.00
SR	AMNSIL	785	0	17.8	11.0	0.2	291	0.00
	Andhra Pradesh	9320	0	184.6	70.8	0.2	466	0.00
	Telangana	9719	0	171.0	43.2	-0.7	731	0.00
	Karnataka	11760	0	198.3	76.6	-0.7	476	0.00
	Kerala	3891	0	76.0	55.3	0.4	198	0.00
	Tamil Nadu	14480	0	303.3	191.7	3.9	1189	0.00
	Puducherry	368	0	8.3	8.1	-0.5	26	0.00
ER	Bihar	4448	48	78.1	67.1	-0.2	229	0.19
	DVC	3349	0	69.5	-42.7	-0.6	334	0.00
	Jharkhand	1425	318	27.2	17.9	0.2	292	4.53
	Odisha	4873	0	93.8	28.1	-1.6	301	0.00
	West Bengal	6647	0	119.7	-0.9	0.1	321	0.00
NER	Sikkim	114	0	1.8	1.4	0.3	73	0.00
	Arunachal Pradesh	136	0	2.2	2.0	0.1	34	0.00
	Assam	1536	0	26.2	19.0	0.1	120	0.00
	Manipur	207	0	2.9	2.9	-0.1	34	0.00
	Meghalaya	368	0	6.7	5.1	0.1	66	0.00
	Mizoram	130	0	1.9	1.6	-0.3	4	0.00
	Nagaland	155	0	2.2	2.1	0.0	37	0.00
	Tripura	237	0	4.2	2.8	0.1	21	0.00

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

	Bhutan	Nepal	Bangladesh
Actual (MU)	5.4	3.2	-22.7
Day Peak (MW)	338.2	280.0	-1043.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	150.5	-62.4	98.7	-183.8	-3.1	0.0
Actual(MU)	141.6	-69.5	117.7	-188.6	-3.9	-2.8
O/D/U/D(MU)	-8.9	-7.2	18.9	-4.8	-0.9	-2.8

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL	% Share
Central Sector	7217	11406	8018	2570	584	29794	47
State Sector	8760	13967	7730	2520	142	33118	53
Total	15977	25372	15748	5090	725	62912	100

G. Sourcewise generation (MU)

	NR	WR	SR	ER	NER	All India	% Share
Coal	680	1291	514	557	11	3052	76
Lignite	32	11	34	0	0	77	2
Hydro	131	41	85	36	13	307	8
Nuclear	26	36	65	0	0	127	3
Gas, Naptha & Diesel	11	5	5	0	31	53	1
RES (Wind, Solar, Biomass & Others)	132	109	158	5	1	405	10
Total	1013	1493	861	598	56	4021	100

Share of RES in total generation (%)	13.06	7.28	18.35	0.79	1.57	10.06
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	28.64	12.42	35.76	6.88	25.34	20.86

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.023
Based on State Max Demands	1.059

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: 30-Nov-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	0	0.0	0.0	0.0
2	HVDC	PUSAULI B/B	-	0	346	0.0	3.5	-8.5
3	765 kV	GAYA-VARANASI	2	0	764	0.0	10.3	-10.3
4	765 kV	SASARAM-FATEHPUR	1	0	0	0.0	0.0	0.0
5	765 kV	GAYA-BALIA	1	0	567	0.0	10.5	-10.5
6	400 kV	PUSAULI-VARANASI	1	0	351	0.0	6.2	-6.2
7	400 kV	PUSAULI-ALLAHABAD	1	0	197	0.0	2.1	-2.1
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	0	727	0.0	10.7	-10.7
9	400 kV	PATNA-BALIA	2	0	641	0.0	11.8	-11.8
10	400 kV	NAUBATPUR-BALIA	2	0	572	0.0	9.0	-9.0
11	400 kV	BIHARSHARIF-BALIA	2	0	506	0.0	8.5	-8.5
12	400 kV	MOTHARI-GORAKHPUR	2	0	455	0.0	7.4	-7.4
13	400 kV	BIHARSHARIF-VARANASI	2	0	381	0.0	5.7	-5.7
14	220 kV	SAHUPURI-KARAMNANA	1	0	135	0.0	2.3	-2.3
15	132 kV	NAGAR UNTARI-RIHAND	1	0	0	0.1	0.0	0.1
16	132 kV	GARWAH-RIHAND	1	25	0	0.3	0.0	0.3
17	132 kV	KARMANASA-SAHUPURI	1	0	20	0.0	0.0	0.0
18	132 kV	KARMANASA-CHANDAULI	1	0	0	0.0	0.0	0.0
						ER-NR	93.2	-92.8
Import/Export of ER (With WR)								
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	632	500	0.0	1.5	-1.5
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	140	816	0.0	5.7	-5.7
3	765 kV	JHARSUGUDA-DURG	2	0	539	0.0	9.5	-9.5
4	400 kV	JHARSUGUDA-RAIGARH	4	20	409	0.0	4.0	-4.0
5	400 kV	RANCHI-SIPAT	2	33	263	0.0	2.3	-2.3
6	220 kV	BUDHIPADAR-RAIGARH	1	1	108	0.0	1.2	-1.2
7	220 kV	BUDHIPADAR-KORBA	2	110	57	0.9	0.0	0.9
						ER-WR	24.3	-23.4
Import/Export of ER (With SR)								
1	HVDC	JEYPORE-GAZUWAKA B/B	2	0	538	0.0	12.4	-12.4
2	HVDC	TALCHER-KOLAR BIPOLE	2	0	1998	0.0	41.2	-41.2
3	765 kV	ANGUL-SRIKAKULAM	2	0	2822	0.0	52.3	-52.3
4	400 kV	TALCHER-J/C	2	0	693	0.0	8.1	-8.1
5	220 kV	BALIMELA-UPPER-SILERRU	1	0	0	0.0	0.0	0.0
						ER-SR	105.8	-105.8
Import/Export of ER (With NER)								
1	400 kV	BINAGURI-BONGAIGAON	2	0	235	0.0	3.7	-3.7
2	400 kV	ALIPURDUAR-BONGAIGAON	2	0	297	0.0	4.1	-4.1
3	220 kV	ALIPURDUAR-SALAKATI	2	0	31	0.0	0.4	-0.4
						ER-NER	8.2	-8.2
Import/Export of NER (With NR)								
1	HVDC	BISWANATH CHARIALI-AGRA	2	0	502	0.0	12.0	-12.0
						NER-NR	12.0	-12.0
Import/Export of WR (With NR)								
1	HVDC	CHAMPA-KURUKSHETRA	2	0	2285	0.0	44.0	-44.0
2	HVDC	VINDHYACHAL B/B	-	227	0	6.0	0.0	6.0
3	HVDC	MUNDRA-MOHINDERGARH	2	977	0	22.7	0.0	22.7
4	765 kV	GWALIOR-AGRA	2	247	829	0.0	10.8	-10.8
5	765 kV	GWALIOR-PHAGI	2	0	1951	0.0	32.4	-32.4
6	765 kV	JABALPUR-ORAI	2	0	670	0.0	18.8	-18.8
7	765 kV	GWALIOR-ORAI	1	981	0	15.9	0.0	15.9
8	765 kV	SATNA-ORAI	1	0	859	0.0	17.2	-17.2
9	765 kV	BANASKANTHA-CHITTOGARH	2	2093	0	30.5	0.0	30.5
10	765 kV	VINDHYACHAL-VARANASI	2	0	1966	0.0	32.1	-32.1
11	400 kV	ZERDA-KANKROLI	1	325	0	4.6	0.0	4.6
12	400 kV	ZERDA-BHINMAL	1	534	55	5.4	0.0	5.4
13	400 kV	VINDHYACHAL-RIHAND	1	968	0	22.2	0.0	22.2
14	400 kV	RAPP-SHUJALPUR	2	468	176	0.9	0.0	0.9
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	144	0	1.2	0.0	1.2
18	220 kV	MALANPUR-AURAIYA	1	111	0	1.8	0.0	1.8
19	132 kV	GWALIOR-SAWALMADHOPUR	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	111.1	-45.6
Import/Export of WR (With SR)								
1	HVDC	BHADRAWATI B/B	-	987	0	14.6	0.0	14.6
2	HVDC	RAIGARH-PUGALUR	2	0	2000	0.0	24.6	-24.6
3	765 kV	SOLAPUR-RAICHUR	2	319	1738	0.0	18.4	-18.4
4	765 kV	WARDHA-NIZAMABAD	2	0	2546	0.0	36.9	-36.9
5	400 kV	KOLHAPUR-KUDGI	2	1098	0	15.8	0.0	15.8
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	116	2.1	0.0	2.1
						WR-SR	32.5	-47.4

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)	33	0	2	0.05
	ER	400kV TALA-BINAGURI 1,2,4 (& 400kV MALBASE - BINAGURI) i.e. BINAGURI RECEIPT (from TALA HEP (6*70MW))	298	237	255	5.31
	ER	220kV CHUKHA-BIRPARA 1&2 (& 220kV MALBASE - BIRPARA) i.e. BIRPARA RECEIPT (from CHUKHA HEP 4*84MW)	0	0	0	0.00
	NER	132kV GELEPHU-SALAKATI	4	0	0	0.01
	NER	132kV MOTANGA-RANGIA	8	0	0	0.00
NEPAL	NR	132kV MAHENDRANAGAR-TANAKPUR(NHPC)	0	0	0	0.00
	ER	NEPAL IMPORT (FROM BIHAR)	0	0	0	0.00
	ER	400kV DHALKEBAR-MUZAFFARPUR 1&2	280	0	132	3.17
BANGLADESH	ER	BHERAMARA B/B HVDC (BANGLADESH)	-919	-681	-842	-20.20
	NER	132kV COMILLA-SURAJMANI NAGAR 1&2	-124	0	-103	-2.46