



National Load Despatch Centre
राष्ट्रीय भार प्रेषण केंद्र
GRID CONTROLLER OF INDIA LIMITED
ग्रिड कंट्रोलर ऑफ इंडिया 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 2023

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 29.11.2023.

महोदय/Dear Sir,

आईईजीसी-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 29-नवंबर -2023 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 2023, is available at the NLDC website.

धन्यवाद,

Report for previous day

Date of Reporting: 30-Nov-2023

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)	48212	53030	46227	21118	2510	171097
Peak Shortage (MW)	0	0	0	153	0	153
Energy Met (MU)	1049	1198	1046	432	47	3772
Hydro Gen (MU)	107	27	35	19	13	200
Wind Gen (MU)	8	67	55	-	-	131
Solar Gen (MU)*	79.31	46.71	94.44	2.87	0.86	224
Energy Shortage (MU)	0.06	0.00	0.00	0.63	0.03	0.72
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	53580	57463	49636	22036	2781	181442
Time Of Maximum Demand Met	10:29	09:56	11:46	18:00	17:16	10:24

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	0.042	0.00	0.31	2.94	3.25	74.64	22.10

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	7523	0	142.8	47.8	-0.2	189	0.00
	Haryana	7297	0	139.9	100.6	-1.0	87	0.00
	Rajasthan	13847	0	262.0	121.9	-4.3	204	0.00
	Delhi	3829	0	70.0	61.1	-0.2	223	0.00
	UP	16483	0	298.5	115.8	0.3	962	0.00
	Uttarakhand	2084	0	39.3	30.7	-0.1	158	0.00
	HP	1936	0	34.5	26.8	0.4	89	0.00
	J&K(UT) & Ladakh(UT)	2586	0	55.1	50.5	-0.5	107	0.06
	Chandigarh	208	0	3.5	3.5	0.0	27	0.00
Railways NR ISTS	187	0	3.6	3.6	0.0	19	0.00	
WR	Chhattisgarh	4133	0	84.7	39.5	-0.9	626	0.00
	Gujarat	15344	0	318.9	145.7	-0.2	543	0.00
	MP	12353	0	238.6	143.3	-5.8	368	0.00
	Maharashtra	23465	0	484.4	186.1	-2.7	803	0.00
	Goa	693	0	14.3	13.6	0.1	34	0.00
	DNHDDPDCL	1214	0	26.7	27.6	-0.9	88	0.00
	AMNSIL	791	0	17.6	6.2	0.1	268	0.00
	BALCO	525	0	12.5	12.5	0.0	12	0.00
SR	Andhra Pradesh	10079	0	203.6	74.0	-2.0	358	0.00
	Telangana	9365	0	198.7	95.3	-0.2	530	0.00
	Karnataka	13263	0	250.9	113.0	-4.9	504	0.00
	Kerala	4300	0	85.5	71.1	1.9	490	0.00
	Tamil Nadu	14627	0	299.0	176.7	-2.6	572	0.00
	Puducherry	391	0	8.8	8.5	-0.3	36	0.00
ER	Bihar	4554	0	82.5	78.1	-2.0	213	0.00
	DVC	3376	0	74.0	-31.7	2.3	338	0.00
	Jharkhand	1602	0	30.5	23.1	-1.1	197	0.63
	Odisha	5058	0	107.8	30.3	-0.8	353	0.00
	West Bengal	7118	0	135.4	21.6	-2.9	99	0.00
	Sikkim	101	0	1.5	1.5	0.0	39	0.00
Railways ER ISTS	17	0	0.1	0.1	0.0	12	0.00	
NER	Arunachal Pradesh	166	0	2.8	2.3	0.3	49	0.00
	Assam	1614	0	26.9	20.8	-0.3	71	0.00
	Manipur	194	0	2.7	2.6	0.1	36	0.00
	Meghalaya	348	23	6.6	4.7	-0.1	58	0.03
	Mizoram	144	0	1.9	1.8	-0.3	16	0.00
	Nagaland	152	0	2.4	2.2	0.0	20	0.00
Tripura	239	0	4.1	3.5	-0.3	15	0.00	

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

	Bhutan	Nepal	Bangladesh	Godda -> Bangladesh
Actual (MU)	-3.9	3.2	-23.0	-18.8
Day Peak (MW)	-292.1	252.2	-1061.0	-873.4

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	255.5	-265.3	162.4	-153.9	1.3	0.0
Actual(MU)	249.2	-273.6	180.6	-163.3	0.0	-7.1
O/D/U/D(MU)	-6.3	-8.4	18.2	-9.3	-1.2	-7.1

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL	% Share
Central Sector	5677	9289	5878	2676	296	23816	39
State Sector	11801	16213	6484	2984	145	37627	61
Total	17478	25501	12362	5660	441	61442	100

G. Sourcewise generation (Gross) (MU)

	NR	WR	SR	ER	NER	All India	% Share
Coal	600	1370	599	649	14	3233	78
Lignite	27	18	42	0	0	86	2
Hydro	107	27	35	19	13	200	5
Nuclear	21	53	76	0	0	150	4
Gas, Naptha & Diesel	11	13	5	0	26	54	1
RES (Wind, Solar, Biomass & Others)	106	115	183	4	1	409	10
Total	871	1597	939	672	54	4132	100

Share of RES in total generation (%)	12.13	7.22	19.45	0.66	1.62	9.90
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	26.75	12.26	31.27	3.43	25.15	18.37

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.022
Based on State Max Demands	1.053

I. All India Peak Demand and shortage at Solar and Non-Solar Hour

	Max Demand Met(MW)	Time	Shortage(MW)
Solar hr	181442	10:24	0
Non-Solar hr	180096	18:29	176

Diversity factor = Sum of regional or state maximum demands / All India maximum demand

**Note: All generation MU figures are gross

***Godda (Jharkhand) -> Bangladesh power exchange is through the radial connection (isolated from Indian Grid)

Solar Hours -> 06:00 to 18:00hrs and rest are Non-Solar Hours

*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-2023

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	49	0.0	1.3	-1.3
3	765 kV	GAYA-VARANASI	2	0	967	0.0	13.7	-13.7
4	765 kV	SASARAM-FATEHPUR	1	0	613	0.0	10.3	-10.3
5	765 kV	GAYA-BALIA	1	0	688	0.0	12.7	-12.7
6	400 kV	PUSAULI-VARANASI	1	45	14	0.4	0.0	0.4
7	400 kV	PUSAULI-ALLAHABAD	1	0	91	0.0	1.6	-1.6
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	0	720	0.0	10.4	-10.4
9	400 kV	PATNA-BALIA	2	0	0	0.0	0.0	0.0
10	400 kV	NAUBATPUR-BALIA	2	0	845	0.0	14.5	-14.5
11	400 kV	BIHARSHARIFF-BALIA	2	0	434	0.0	7.1	-7.1
12	400 kV	MOTIHARI-GORAKHPUR	2	0	476	0.0	7.7	-7.7
13	400 kV	BIHARSHARIFF-VARANASI	2	0	410	0.0	6.0	-6.0
14	220 kV	SAHUPURI-KARAMNANA	1	0	122	0.0	1.4	-1.4
15	132 kV	NAGAR UNTARI-RIHAND	1	0	0	0.1	0.0	0.1
16	132 kV	GARWAH-RIHAND	1	30	0	0.1	0.0	0.1
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						0.6	86.7	-86.1
Import/Export of ER (With WR)								
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	560	639	0.0	3.2	-3.2
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	500	703	0.0	1.7	-1.7
3	765 kV	JHARSUGUDA-DURG	2	0	865	0.0	15.7	-15.7
4	400 kV	JHARSUGUDA-RAIGARH	4	106	348	0.0	3.2	-3.2
5	400 kV	RANCHI-SIPAT	2	131	211	0.0	0.2	-0.2
6	220 kV	BUDHIPADAR-RAIGARH	1	11	120	0.0	0.6	-0.6
7	220 kV	BUDHIPADAR-KORBA	2	123	65	0.8	0.0	0.8
ER-WR						0.8	24.7	-24.0
Import/Export of ER (With SR)								
1	HVDC	JEYPORE-GAZUWAKA B/B	2	0	705	0.0	14.5	-14.5
2	HVDC	TALCHER-KOLAR BIPOLE	2	0	1995	0.0	48.1	-48.1
3	765 kV	ANGUL-SRIKAKULAM	2	0	2859	0.0	49.8	-49.8
4	400 kV	TALCHER-I/C	2	0	963	0.0	5.7	-5.7
5	220 kV	BALIMELA-UPPER-SILERRU	1	0	0	0.0	0.0	0.0
ER-SR						0.0	112.4	-112.4
Import/Export of ER (With NER)								
1	400 kV	BINAGURI-BONGAIGAON	2	247	0	2.7	0.0	2.7
2	400 kV	ALIPURDUAR-BONGAIGAON	2	805	0	0.0	0.0	0.0
3	220 kV	ALIPURDUAR-SALAKATI	2	166	0	2.3	0.0	2.3
ER-NER						5.0	0.0	5.0
Import/Export of NER (With NR)								
1	HVDC	BISWANATH CHARIALI-AGRA	2	0	661	15.5	0.0	15.5
NER-NR						15.5	0.0	15.5
Import/Export of WR (With NR)								
1	HVDC	CHAMPA-KIRUKSHETRA	2	0	2032	0.0	48.5	-48.5
2	HVDC	VINDHYACHAL B/B	-	136	0	3.6	0.0	3.6
3	HVDC	MUNDRA-MOHINDERGARH	2	0	296	0.0	6.8	-6.8
4	765 kV	GWALIOR-AGRA	2	0	2092	0.0	37.2	-37.2
5	765 kV	GWALIOR-PHAGI	2	0	2059	0.0	30.6	-30.6
6	765 kV	JABALPUR-ORAI	2	0	1221	0.0	19.8	-19.8
7	765 kV	GWALIOR-ORAI	1	896	0	12.4	0.0	12.4
8	765 kV	SATNA-ORAI	1	0	1313	0.0	24.0	-24.0
9	765 kV	BANASKANTHA-CHITORGARH	2	394	536	0.0	1.0	-1.0
10	765 kV	VINDHYACHAL-VARANASI	2	0	2587	0.0	47.7	-47.7
11	400 kV	ZERDA-KANKROLI	1	73	106	0.4	0.4	-0.1
12	400 kV	ZERDA -BHINMAL	1	118	256	11.0	0.0	11.0
13	400 kV	VINDHYACHAL -RIHAND	1	955	0	12.4	0.0	12.4
14	400 kV	RAPP-SHUJALPUR	2	45	452	0.0	4.1	-4.0
15	220 kV	BHANPURA-RANPUR	1	0	132	0.0	2.3	-2.3
16	220 kV	BHANPURA-MORAK	1	0	30	0.0	1.0	-1.0
17	220 kV	MEHGAON-AURAIYA	1	69	3	0.6	0.0	0.6
18	220 kV	MALANPUR-AURAIYA	1	41	18	0.2	0.1	0.1
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						40.6	223.5	-182.9
Import/Export of WR (With SR)								
1	HVDC	BHADRAWATI B/B	-	0	362	0.0	6.9	-6.9
2	HVDC	RAIGARH-PUGALUR	2	0	3506	0.0	51.6	-51.6
3	765 kV	SOLAPUR-RAICHUR	2	1109	1634	4.6	9.2	-4.6
4	765 kV	WARDHA-NIZAMABAD	2	0	2548	0.0	35.7	-35.7
5	765 kV	WARORA-WARANGAL(NEW)	2	0	2568	0.0	34.8	-34.8
6	400 kV	KOLHAPUR-KUDGI	2	1261	0	18.1	0.0	18.1
7	220 kV	KOLHAPUR-CHIKODI	2	0	0	0.0	0.0	0.0
8	220 kV	PONDA-AMBEWADI	1	0	70	0.0	0.8	-0.8
9	220 kV	XELDEM-AMBEWADI	1	0	116	2.3	0.0	2.3
WR-SR						24.9	138.9	-114.0

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)	-110	15	-47	-1.12
	ER	400kV TALA-BINAGURI 1,2,4 (& 400kV MALBASE - BINAGURI) i.e. BINAGURI RECEIPT (from TALA HEP 6*170MW)	211	123	162	3.89
	ER	220kV CHUKHA-BIRPARA 1&2 (& 220kV MALBASE - BIRPARA) i.e. BIRPARA RECEIPT (from CHUKHA HEP 4*84MW)	-294	-236	-258	-6.20
	NER	132kV GELEPHU-SALAKATI	-32	-1	-22	-0.52
	NER	132kV MOTANGA-RANGIA	7	0	2	0.06
NEPAL	NR	132kV MAHENDRANAGAR-TANAKPUR(NHPC)	53	0	40	0.95
	ER	NEPAL IMPORT (FROM BIHAR)	0	0	0	0.00
	ER	400kV DHALKEBAR-MUZAFFARPUR 1&2	199	0	93	2.24
BANGLADESH	ER	BHERAMARA B/B HVDC (B'DESH)	-930	-646	-857	-20.57
	ER (Isolated from Indian Grid)	400kV GODDA_TPS-RAHANPUR (B'DESH) D/C	-873	-374	-784	-18.81
	NER	132kV COMILLA-SURAJMANI NAGAR 1&2	131	0	-103	-2.48

