

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: 04th 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 03.11.2023.

महोदय/Dear Sir,

आईईजीसी-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 03-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 03rd November 2023, is available at the NLDC website.

धन्यवाद,

Report for previous day

Date of Reporting: 04-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)	53288	62676	46207	22518	2829	187518
Peak Shortage (MW)	125	0	0	308	24	457
Energy Met (MU)	1166	1527	1143	481	54	4370
Hydro Gen (MU)	131	40	53	42	17	283
Wind Gen (MU)	4	33	37	-	-	74
Solar Gen (MU)*	103.89	55.97	95.43	2.97	1.19	259
Energy Shortage (MU)	1.82	0.00	0.00	1.95	0.11	3.88
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	55361	71160	56756	22831	3021	204605
Time Of Maximum Demand Met	18:35	10:56	11:53	18:37	17:33	11:43

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	0.055	0.45	2.53	7.67	10.66	78.63	10.72

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	6969	0	141.6	47.3	-0.4	103	0.00
	Haryana	7139	0	149.2	91.7	-1.4	161	0.00
	Rajasthan	15413	0	313.6	121.6	-1.3	442	0.60
	Delhi	4140	0	81.4	72.2	0.4	265	0.00
	UP	18097	0	348.2	107.4	-1.2	130	0.00
	Uttarakhand	2044	0	39.5	27.8	1.2	192	0.30
	HP	1885	0	33.3	24.3	-0.5	58	0.22
	J&K(UT) & Ladakh(UT)	2532	0	52.1	42.5	4.0	589	0.70
	Chandigarh	193	0	3.5	3.4	0.1	27	0.00
Railways NR ISTS	186	0	3.6	3.5	0.2	41	0.00	
WR	Chhattisgarh	4644	0	99.8	44.7	-1.0	205	0.00
	Gujarat	21059	0	435.5	203.7	0.9	575	0.00
	MP	15459	0	320.8	194.8	-3.7	620	0.00
	Maharashtra	27577	0	599.3	235.6	-2.2	577	0.00
	Goa	691	0	14.3	12.9	0.8	197	0.00
	DNHDDPDCL	1244	0	28.3	28.2	0.1	49	0.00
	AMNSIL	807	0	16.4	9.7	-0.1	260	0.00
	BALCO	518	0	12.4	12.4	0.0	5	0.00
SR	Andhra Pradesh	11599	0	226.7	87.9	0.5	557	0.00
	Telangana	11725	0	228.7	127.9	1.9	1050	0.00
	Karnataka	15203	0	275.4	105.4	-2.7	416	0.00
	Kerala	3764	0	80.9	63.7	1.2	303	0.00
	Tamil Nadu	15615	0	322.1	186.1	-0.3	655	0.00
	Puducherry	439	0	9.0	9.3	-0.3	41	0.00
ER	Bihar	5257	262	100.8	90.1	0.7	297	0.18
	DVC	3258	0	69.9	-48.1	-1.9	160	0.00
	Jharkhand	1448	151	28.6	25.6	-2.8	170	1.76
	Odisha	5018	0	105.9	24.5	-0.3	354	0.00
	West Bengal	8398	0	174.5	43.3	-3.0	307	0.00
	Sikkim	86	0	1.2	1.3	-0.1	6	0.00
	Railways ER ISTS	21	0	0.2	0.2	0.0	6	0.00
NER	Arunachal Pradesh	155	0	2.7	2.6	-0.1	43	0.00
	Assam	1873	0	32.8	24.9	0.4	120	0.00
	Manipur	190	0	2.6	2.6	-0.1	25	0.00
	Meghalaya	327	24	6.1	4.5	-0.2	87	0.11
	Mizoram	124	0	1.9	1.5	-0.3	21	0.00
	Nagaland	149	0	2.5	2.3	0.0	28	0.00
Tripura	284	0	5.2	4.4	-0.2	29	0.00	

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

	Bhutan	Nepal	Bangladesh	Godda -> Bangladesh
Actual (MU)	1.8	8.5	-24.6	-23.2
Day Peak (MW)	180.0	374.0	-1074.0	-1275.2

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	192.8	-166.6	146.8	-174.9	2.0	0.0
Actual(MU)	189.6	-146.6	157.6	-204.3	-3.5	-7.1
O/D/U/D(MU)	-3.2	20.0	10.9	-29.4	-5.4	-7.1

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL	% Share
Central Sector	6033	10429	6168	2966	501	26097	51
State Sector	8241	8520	5731	2225	121	24838	49
Total	14274	18949	11899	5191	622	50934	100

G. Sourcewise generation (Gross) (MU)

	NR	WR	SR	ER	NER	All India	% Share
Coal	757	1595	724	709	17	3802	80
Lignite	22	15	52	0	0	89	2
Hydro	131	40	53	42	17	283	6
Nuclear	19	53	71	0	0	144	3
Gas, Naptha & Diesel	14	18	4	0	29	65	1
RES (Wind, Solar, Biomass & Others)	117	92	166	5	1	381	8
Total	1060	1813	1070	757	63	4763	100

Share of RES in total generation (%)	11.05	5.07	15.51	0.68	1.87	8.00
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	25.22	10.24	27.04	6.26	29.03	16.96

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	204605	11:43	40
Non-Solar hr	194949	18:33	1420

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: 04-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	500	0.0	12.7	-12.7
2	HVDC	PUSAULI B/B	-	0	49	0.0	1.3	-1.3
3	765 kV	GAYA-VARANASI	2	0	881	0.0	14.9	-14.9
4	765 kV	SASARAM-FATEHPUR	1	0	527	0.0	10.1	-10.1
5	765 kV	GAYA-BALIA	1	0	549	0.0	10.3	-10.3
6	400 kV	PUSAULI-VARANASI	1	31	25	0.1	0.0	0.1
7	400 kV	PUSAULI-ALLAHABAD	1	0	77	0.0	1.2	-1.2
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	0	491	0.0	7.3	-7.3
9	400 kV	PATNA-BALIA	2	0	469	0.0	8.9	-8.9
10	400 kV	NAUBATPUR-BALIA	2	0	498	0.0	9.1	-9.1
11	400 kV	BIHARSHARIF-BALIA	2	20	186	0.0	2.4	-2.4
12	400 kV	MOTIHARI-GORAKHPUR	2	0	313	0.0	5.6	-5.6
13	400 kV	BIHARSHARIF-VARANASI	2	0	301	0.0	4.6	-4.6
14	220 kV	SAHUPURI-KARAMNANA	1	0	103	0.0	1.5	-1.5
15	132 kV	NAGAR UNTARI-RIHAND	1	0	0	0.1	0.0	0.1
16	132 kV	GARWAH-RIHAND	1	30	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						0.6	90.0	-89.5
Import/Export of ER (With WR)								
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	0	1047	0.0	16.9	-16.9
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	0	892	0.0	10.2	-10.2
3	765 kV	JHARSUGUDA-DURG	2	0	776	0.0	16.0	-16.0
4	400 kV	JHARSUGUDA-RAIGARH	4	0	746	0.0	14.1	-14.1
5	400 kV	RANCHI-SIPAT	2	0	354	0.0	5.2	-5.2
6	220 kV	BUDHIPADAR-RAIGARH	1	0	159	0.0	2.6	-2.6
7	220 kV	BUDHIPADAR-KORBA	2	41	115	0.0	0.3	-0.3
ER-WR						0.0	65.3	-65.3
Import/Export of ER (With SR)								
1	HVDC	JEYPORE-GAZUWAKA B/B	2	0	595	0.0	12.5	-12.5
2	HVDC	TALCHER-KOLAR BIPOLE	2	0	1001	0.0	24.2	-24.2
3	765 kV	ANGUL-SRIKAKULAM	2	0	2746	0.0	50.2	-50.2
4	400 kV	TALCHER-I/C	2	901	0	20.5	0.0	20.5
5	220 kV	BALIMELA-UPPER-SILERRU	1	0	0	0.0	0.0	0.0
ER-SR						0.0	86.9	-86.9
Import/Export of ER (With NER)								
1	400 kV	BINAGURI-BONGAIGAON	2	0	278	0.0	3.6	-3.6
2	400 kV	ALIPURDUAR-BONGAIGAON	2	191	455	0.0	3.7	-3.7
3	220 kV	ALIPURDUAR-SALAKATI	2	23	88	0.0	0.9	-0.9
ER-NER						0.0	8.2	-8.2
Import/Export of NER (With NR)								
1	HVDC	BISWANATH CHARIALI-AGRA	2	0	503	0.0	12.1	-12.1
NER-NR						0.0	12.1	-12.1
Import/Export of WR (With NR)								
1	HVDC	CHAMPA-KURUKSHETRA	2	0	825	0.0	19.6	-19.6
2	HVDC	VINDHYACHAL B/B	-	0	246	0.0	6.0	-6.0
3	HVDC	MUNDRA-MOHINDERGARH	2	0	788	0.0	19.4	-19.4
4	765 kV	GWALIOR-AGRA	2	331	1249	0.5	11.9	-11.5
5	765 kV	GWALIOR-PHAGI	2	0	1843	0.0	31.6	-31.6
6	765 kV	JABALPUR-ORAI	2	46	703	0.0	18.5	-18.5
7	765 kV	GWALIOR-ORAI	1	956	0	10.2	0.0	10.2
8	765 kV	SATNA-ORAI	1	0	986	0.0	19.1	-19.1
9	765 kV	BANASKANTHA-CHITORGARH	2	1860	0	25.6	0.0	25.6
10	765 kV	VINDHYACHAL-VARANASI	2	0	1919	0.0	30.0	-30.0
11	400 kV	ZERDA-KANKROLI	1	290	0	3.8	0.0	3.8
12	400 kV	ZERDA -BHINMAL	1	548	154	2.9	0.0	2.9
13	400 kV	VINDHYACHAL -RIHAND	1	957	0	22.3	0.0	22.3
14	400 kV	RAPP-SHUJALPUR	2	456	283	1.1	0.0	1.1
15	220 kV	BHANPURA-RANPUR	1	0	166	0.0	2.3	-2.3
16	220 kV	BHANPURA-MORAK	1	0	30	0.0	1.7	-1.7
17	220 kV	MEHGAON-AURAIYA	1	143	0	1.9	0.0	1.9
18	220 kV	MALANPUR-AURAIYA	1	120	0	1.4	0.0	1.4
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						69.6	160.2	-90.6
Import/Export of WR (With SR)								
1	HVDC	BHADRAWATI B/B	-	0	1006	0.0	24.0	-24.0
2	HVDC	RAIGARH-PUGALUR	2	0	4009	0.0	69.0	-69.0
3	765 kV	SOLAPUR-RAICHUR	2	1166	167	12.9	0.1	12.8
4	765 kV	WARDHA-NIZAMABAD	2	0	2050	0.0	33.6	-33.6
5	765 kV	WARORA-WARANGAL(NEW)	2	0	2371	0.0	35.0	-35.0
6	400 kV	KOLHAPUR-KUDGI	2	1572	0	27.4	0.0	27.4
7	220 kV	KOLHAPUR-CHIKODI	2	0	0	0.0	0.0	0.0
8	220 kV	PONDA-AMBEWADI	1	0	0	0.0	0.0	0.0
9	220 kV	XELDEM-AMBEWADI	1	0	116	2.2	0.0	2.2
WR-SR						42.6	161.7	-119.2

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)	97	-21	14	0.33
	ER	400kV TALA-BINAGURI 1,2,4 (& 400kV MALBASE - BINAGURI) i.e. BINAGURI RECEIPT (from TALA HEP 6*170MW)	194	148	194	5.41
	ER	220kV CHUKHA-BIRPARA 1&2 (& 220kV MALBASE - BIRPARA) i.e. BIRPARA RECEIPT (from CHUKHA HEP 4*84MW)	-172	-113	-139	-3.35
	NER	132kV GELEPHU-SALAKATI	8	0	2	0.04
	NER	132kV MOTANGA-RANGIA	-33	-8	-27	-0.64
NEPAL	NR	132kV MAHENDRANAGAR-TANAKPUR(NHPC)	0	0	0	1.63
	ER	NEPAL IMPORT (FROM BIHAR)	0	0	0	0.00
	ER	400kV DHALKEBAR-MUZAFFARPUR 1&2	374	169	288	6.90
BANGLADESH	ER	BHERAMARA B/B HVDC (B'DESH)	-923	-796	-909	-21.81
	ER (Isolated from Indian Grid)	400kV GODDA_TPS-RAHANPUR (B'DESH) D/C	-1275	-810	-967	-23.21
	NER	132kV COMILLA-SURAJMANI NAGAR 1&2	-151	0	-115	-2.76

