



National Load Despatch Centre
राष्ट्रीय भार प्रेषण केंद्र
GRID CONTROLLER OF INDIA LIMITED
ग्रीड 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: 07th 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 06.11.2023.

महोदय/Dear Sir,

आईईजीसी-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 06-नवंबर -2023 की अखिल भारतीय प्रणाली की दैनिक ग्रीड 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 06th November 2023, is available at the NLDC website.

धन्यवाद,

Report for previous day

Date of Reporting: 07-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)	52175	62309	45739	21390	2673	184286
Peak Shortage (MW)	0	0	0	464	0	464
Energy Met (MU)	1130	1522	1040	452	48	4191
Hydro Gen (MU)	133	32	43	33	17	258
Wind Gen (MU)	4	38	24	-	-	67
Solar Gen (MU)*	105.23	51.44	91.01	2.62	1.18	251
Energy Shortage (MU)	0.71	0.00	0.00	1.09	0.00	1.80
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	56254	73028	50212	22991	2838	198571
Time Of Maximum Demand Met	18:21	10:44	10:18	17:45	17:19	10:26

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	0.030	0.00	0.00	2.46	2.46	77.51	20.02

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	6706	0	135.2	45.8	-0.9	185	0.00
	Haryana	7124	0	139.7	92.7	-0.6	133	0.00
	Rajasthan	15610	0	315.8	121.3	-4.3	143	0.00
	Delhi	4026	0	77.3	68.3	0.1	395	0.00
	UP	18018	0	331.5	110.4	-1.7	1174	0.00
	Uttarakhand	2009	0	38.6	28.1	0.6	127	0.00
	HP	1864	0	32.7	24.1	-0.3	60	0.00
	J&K(UT) & Ladakh(UT)	2568	0	51.7	42.6	1.5	313	0.71
	Chandigarh	197	0	3.5	3.5	0.1	21	0.00
Railways NR ISTS	190	0	3.7	3.6	0.1	21	0.00	
WR	Chhattisgarh	4456	0	94.0	35.2	-0.8	244	0.00
	Gujarat	21694	0	436.0	194.5	1.0	564	0.00
	MP	15959	0	323.9	203.7	-4.7	522	0.00
	Maharashtra	28068	0	594.2	228.8	-7.7	892	0.00
	Goa	690	0	14.5	13.2	0.7	33	0.00
	DNHDDPDCL	1234	0	28.1	28.4	-0.3	18	0.00
	AMNSIL	867	0	18.8	9.6	0.0	295	0.00
	BALCO	520	0	12.4	12.5	-0.1	7	0.00
SR	Andhra Pradesh	10030	0	207.4	96.3	-2.7	668	0.00
	Telangana	11078	0	210.2	103.4	-0.3	633	0.00
	Karnataka	12651	0	233.2	85.2	-0.4	783	0.00
	Kerala	4108	0	78.4	60.3	0.9	437	0.00
	Tamil Nadu	15297	0	301.8	170.2	-2.2	574	0.00
	Puducherry	454	0	9.1	9.3	-0.2	28	0.00
ER	Bihar	5120	0	91.1	85.6	-0.1	354	0.40
	DVC	3289	0	70.9	-44.3	-0.5	441	0.00
	Jharkhand	1506	0	29.8	23.0	-2.4	167	0.69
	Odisha	5091	0	104.8	24.1	-2.1	314	0.00
	West Bengal	7783	0	153.7	29.3	-3.3	215	0.00
	Sikkim	99	0	1.3	1.2	0.1	30	0.00
Railways ER ISTS	13	0	0.2	0.2	0.0	6	0.00	
NER	Arunachal Pradesh	158	0	2.7	2.7	-0.3	20	0.00
	Assam	1619	0	27.1	20.6	-0.7	122	0.00
	Manipur	197	0	2.6	2.6	0.0	30	0.00
	Meghalaya	366	0	6.5	5.2	-0.2	75	0.00
	Mizoram	127	0	1.9	1.5	-0.1	12	0.00
	Nagaland	145	0	2.4	2.3	0.1	27	0.00
Tripura	261	0	4.4	4.2	-0.1	15	0.00	

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

	Bhutan	Nepal	Bangladesh	Godda -> Bangladesh
Actual (MU)	3.5	9.9	-22.0	-27.0
Day Peak (MW)	216.0	401.0	-935.0	-1465.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	198.3	-184.9	147.3	-162.5	1.9	0.0
Actual(MU)	201.7	-158.4	148.6	-191.7	-5.4	-5.2
O/D/U/D(MU)	3.4	26.5	1.4	-29.2	-7.3	-5.2

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL	% Share
Central Sector	6343	8740	5968	4226	230	25507	55
State Sector	7056	7375	4501	1605	121	20658	45
Total	13399	16115	10469	5831	351	46165	100

G. Sourcewise generation (Gross) (MU)

	NR	WR	SR	ER	NER	All India	% Share
Coal	698	1611	640	673	14	3637	80
Lignite	26	18	59	0	0	103	2
Hydro	133	32	43	33	17	258	6
Nuclear	20	53	73	0	0	145	3
Gas, Naptha & Diesel	13	14	4	0	27	57	1
RES (Wind, Solar, Biomass & Others)	119	92	152	4	1	367	8
Total	1009	1819	970	710	60	4567	100

Share of RES in total generation (%)	11.78	5.03	15.65	0.51	1.98	8.04
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	26.91	9.69	27.58	5.15	30.64	16.86

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.034
Based on State Max Demands	1.063

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

	Max Demand Met(MW)	Time	Shortage(MW)
Solar hr	198571	10:26	0
Non-Solar hr	195428	18:17	0

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: 07-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	501	0.0	12.7	-12.7
2	HVDC	PUSAULI B/B	-	0	48	0.0	1.3	-1.3
3	765 kV	GAYA-VARANASI	2	0	801	0.0	14.1	-14.1
4	765 kV	SASARAM-FATEHPUR	1	0	513	0.0	9.5	-9.5
5	765 kV	GAYA-BALIA	1	0	593	0.0	11.7	-11.7
6	400 kV	PUSAULI-VARANASI	1	29	29	0.1	0.0	0.1
7	400 kV	PUSAULI-ALLAHABAD	1	0	76	0.0	1.3	-1.3
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	0	536	0.0	8.5	-8.5
9	400 kV	PATNA-BALIA	2	0	420	0.0	8.9	-8.9
10	400 kV	NAUBATPUR-BALIA	2	0	452	0.0	8.6	-8.6
11	400 kV	BIHARSHARIF-BALIA	2	0	234	0.0	3.9	-3.9
12	400 kV	MOTIHARI-GORAKHPUR	2	0	332	0.0	5.5	-5.5
13	400 kV	BIHARSHARIF-VARANASI	2	0	306	0.0	5.3	-5.3
14	220 kV	SAHUPURI-KARAMNANA	1	0	115	0.0	1.6	-1.6
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	0.5	-0.5
18	132 kV	KARMANASA-CHANDAUJI	1	0	0	0.0	0.0	0.0
ER-NR						0.5	93.3	-92.8
Import/Export of ER (With WR)								
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	459	531	0.0	3.8	-3.8
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	356	729	0.0	3.7	-3.7
3	765 kV	JHARSUGUDA-DURG	2	0	746	0.0	14.9	-14.9
4	400 kV	JHARSUGUDA-RAIGARH	4	0	639	0.0	9.3	-9.3
5	400 kV	RANCHI-SIPAT	2	50	313	0.0	3.1	-3.1
6	220 kV	BUDHIPADAR-RAIGARH	1	0	118	0.0	1.6	-1.6
7	220 kV	BUDHIPADAR-KORBA	2	112	24	1.3	0.0	1.3
ER-WR						1.3	36.3	-35.0
Import/Export of ER (With SR)								
1	HVDC	JEYPORE-GAZUWAKA B/B	2	0	523	0.0	11.9	-11.9
2	HVDC	TALCHER-KOLAR BIPOLE	2	0	2000	0.0	44.1	-44.1
3	765 kV	ANGUL-SRIKAKULAM	2	0	2786	0.0	47.5	-47.5
4	400 kV	TALCHER-I/C	2	260	229	0.9	0.0	0.9
5	220 kV	BALIMELA-UPPER-SILERRU	1	0	0	0.0	0.0	0.0
ER-SR						0.0	103.4	-103.4
Import/Export of ER (With NER)								
1	400 kV	BINAGURI-BONGAIGAON	2	0	226	0.0	3.2	-3.2
2	400 kV	ALIPURDUAR-BONGAIGAON	2	273	332	0.0	2.5	-2.5
3	220 kV	ALIPURDUAR-SALAKATI	2	38	65	0.0	0.6	-0.6
ER-NER						0.0	6.4	-6.4
Import/Export of NER (With NR)								
1	HVDC	BISWANATH CHARIALI-AGRA	2	0	505	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	821	0.0	19.6	-19.6
2	HVDC	VINDHYACHAL B/B	-	224	0	3.3	0.0	3.3
3	HVDC	MUNDRA-MOHINDERGARH	2	0	497	0.0	12.2	-12.2
4	765 kV	GWALIOR-AGRA	2	25	1692	0.0	23.8	-23.8
5	765 kV	GWALIOR-PHAGI	2	0	1934	0.0	34.5	-34.5
6	765 kV	JABALPUR-ORAI	2	0	690	0.0	21.7	-21.7
7	765 kV	GWALIOR-ORAI	1	1004	0	19.8	0.0	19.8
8	765 kV	SATNA-ORAI	1	0	965	0.0	20.6	-20.6
9	765 kV	BANASKANTHA-CHITORGARH	2	1723	0	22.0	0.0	22.0
10	765 kV	VINDHYACHAL-VARANASI	2	0	2237	0.0	38.2	-38.2
11	400 kV	ZERDA-KANKROLI	1	219	0	2.4	0.0	2.4
12	400 kV	ZERDA -BHINMAL	1	463	155	1.8	0.0	1.8
13	400 kV	VINDHYACHAL -RIHAND	1	952	0	22.0	0.0	22.0
14	400 kV	RAPP-SHUALPUR	2	347	343	0.0	0.8	-0.8
15	220 kV	BHANPURA-RANPUR	1	0	171	0.0	2.8	-2.8
16	220 kV	BHANPURA-MORAK	1	0	30	0.0	1.1	-1.1
17	220 kV	MEHGAON-AURAIYA	1	141	0	1.7	0.0	1.7
18	220 kV	MALANPUR-AURAIYA	1	115	0	1.1	0.0	1.1
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						74.2	175.1	-100.9
Import/Export of WR (With SR)								
1	HVDC	BHADRAWATI B/B	-	0	1008	0.0	20.4	-20.4
2	HVDC	RAIGARH-PUGALUR	2	0	2005	0.0	38.0	-38.0
3	765 kV	SOLAPUR-RAICHUR	2	1638	946	11.9	1.4	10.5
4	765 kV	WARDHA-NIZAMABAD	2	0	2597	0.0	33.8	-33.8
5	765 kV	WARORA-WARANGAL(NEW)	2	0	2539	0.0	31.7	-31.7
6	400 kV	KOLHAPUR-KUDGI	2	1297	0	19.2	0.0	19.2
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						33.3	125.3	-92.0

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)	55	-7	22	0.53
	ER	400kV TALA-BINAGURI 1,2,4 (& 400kV MALBASE - BINAGURI) i.e. BINAGURI RECEIPT (from TALA HEP 6*170MW)	268	150	255	6.11
	ER	220kV CHUKHA-BIRPARA 1&2 (& 220kV MALBASE - BIRPARA) i.e. BIRPARA RECEIPT (from CHUKHA HEP 4*84MW)	-178	-111	-143	-3.43
	NER	132kV GELEPHU-SALAKATI	8	-15	0	0.00
	NER	132kV MOTANGA-RANGIA	28	-12	11	0.26
NEPAL	NR	132kV MAHENDRANAGAR-TANAKPUR(NHPC)	0	0	0	1.64
	ER	NEPAL IMPORT (FROM BIHAR)	0	0	0	0.00
	ER	400kV DHALKEBAR-MUZAFFARPUR 1&2	401	254	346	8.30
BANGLADESH	ER	BHERAMARA B/B HVDC (B'DESH)	-781	-780	-781	-18.74
	ER (Isolated from Indian Grid)	400kV GODDA_TPS-RAHANPUR (B'DESH) D/C	-1465	-1094	-1124	-26.98
	NER	132kV COMILLA-SURAJMANI NAGAR 1&2	-154	0	-136	-3.26

