

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: 12th October 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 11.10.2023.

महोदय/Dear Sir,

आईईजीसी-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 11-अक्टूबर-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 11th October 2023, is available at the NLDC website.

धन्यवाद,

Report for previous day

Date of Reporting: 12-Oct-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 20:00 hrs; from RLDCs)	60305	64674	49324	25839	3150	203292
Peak Shortage (MW)	724	103	1000	1311	236	3374
Energy Met (MU)	1423	1509	1215	570	62	4779
Hydro Gen (MU)	193	92	89	75	35	484
Wind Gen (MU)	8	34	39	-	-	80
Solar Gen (MU)*	131.42	63.16	109.87	3.00	1.04	308
Energy Shortage (MU)	15.19	1.23	4.40	9.44	1.80	32.06
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	66332	69696	60950	26287	3146	220980
Time Of Maximum Demand Met	12:49	15:43	12:21	18:36	17:41	10:50

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	0.081	1.24	3.45	13.78	18.47	70.06	11.47

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	10542	0	208.6	95.8	-0.1	232	0.00
	Haryana	9155	0	201.8	144.3	-1.3	247	2.76
	Rajasthan	14794	0	304.0	96.1	2.1	654	3.10
	Delhi	5040	0	108.7	84.1	-1.1	100	0.00
	UP	21345	0	467.1	192.7	0.5	1298	5.37
	Uttarakhand	2157	0	44.0	29.6	-0.2	168	0.00
	HP	1783	0	32.9	16.9	2.0	248	0.86
	J&K(UT) & Ladakh(UT)	2475	75	47.4	28.5	6.8	659	3.10
	Chandigarh	236	0	4.7	4.5	0.3	59	0.00
Railways NR ISTS	163	0	3.4	2.8	0.6	57	0.00	
WR	Chhattisgarh	5232	4	120.0	60.0	1.8	372	1.23
	Gujarat	20620	0	414.2	148.8	-0.4	674	0.00
	MP	13138	0	293.0	166.4	3.7	1194	0.00
	Maharashtra	27816	0	610.3	198.8	4.2	1589	0.00
	Goa	721	0	12.7	12.9	-0.5	130	0.00
	DNHDDPDCL	1312	0	30.1	29.9	0.2	41	0.00
	AMNSIL	785	0	16.6	3.3	-0.1	268	0.00
	BALCO	521	0	12.4	12.6	-0.2	6	0.00
SR	Andhra Pradesh	11795	0	235.1	124.2	0.1	715	0.00
	Telangana	15266	0	272.8	134.9	1.4	719	0.00
	Karnataka	14448	0	254.4	97.6	0.1	516	4.40
	Kerala	4086	0	83.6	55.7	1.4	294	0.00
	Tamil Nadu	16587	0	358.4	203.1	2.4	424	0.00
	Puducherry	460	0	10.6	9.5	0.4	75	0.00
ER	Bihar	6369	600	132.3	123.8	3.2	507	7.60
	DVC	3368	0	74.1	-38.3	2.5	541	0.00
	Jharkhand	1619	305	34.7	25.2	-1.9	166	1.84
	Odisha	5606	0	119.7	37.3	-1.6	279	0.00
	West Bengal	9684	0	208.2	91.5	-0.7	167	0.00
	Sikkim	74	0	1.1	1.0	0.1	19	0.00
Railways ER ISTS	10	0	0.2	0.1	0.0	4	0.00	
NER	Arunachal Pradesh	157	0	2.8	2.6	-0.1	28	0.00
	Assam	2062	143	40.2	29.7	2.1	266	1.30
	Manipur	198	0	2.9	2.9	0.0	29	0.00
	Meghalaya	289	36	5.4	1.3	-0.3	41	0.50
	Mizoram	121	0	1.9	0.8	-0.2	12	0.00
	Nagaland	167	0	2.7	2.6	-0.1	18	0.00
Tripura	349	0	5.8	6.0	0.0	58	0.00	

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

	Bhutan	Nepal	Bangladesh	Godda -> Bangladesh
Actual (MU)	27.3	10.0	-24.5	-12.3
Day Peak (MW)	1371.1	462.0	-1082.0	-530.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	278.3	-344.0	182.5	-109.7	-7.1	0.0
Actual(MU)	257.9	-333.6	191.4	-108.3	-12.9	-5.4
O/D/U/D(MU)	-20.3	10.3	8.9	1.4	-5.8	-5.4

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL	% Share
Central Sector	2645	7294	4428	3726	240	18332	44
State Sector	7066	8154	5636	2440	129	23425	56
Total	9711	15448	10064	6166	369	41757	100

G. Sourcewise generation (Gross) (MU)

	NR	WR	SR	ER	NER	All India	% Share
Coal	794	1610	732	664	17	3818	74
Lignite	22	17	34	0	0	73	1
Hydro	193	92	89	75	35	484	9
Nuclear	24	53	70	0	0	147	3
Gas, Naptha & Diesel	65	101	6	0	28	200	4
RES (Wind, Solar, Biomass & Others)	144	98	177	5	1	425	8
Total	1242	1972	1107	744	82	5147	100

Share of RES in total generation (%)	11.59	4.97	16.00	0.66	1.27	8.26
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	29.08	12.33	30.28	10.75	44.51	20.52

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.024
Based on State Max Demands	1.043

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

	Max Demand Met(MW)	Time	Shortage(MW)
Solar hr	220980	10:50	416
Non-Solar hr	205423	18:47	4050

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: 12-Oct-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	502	0.0	12.3	-12.3
2	HVDC	PUSAULI B/B	-	0	97	0.0	1.9	-1.9
3	765 kV	GAYA-VARANASI	2	211	253	0.0	1.3	-1.3
4	765 kV	SASARAM-FATEHPUR	1	0	258	0.0	3.8	-3.8
5	765 kV	GAYA-BALIA	1	0	482	0.0	8.8	-8.8
6	400 kV	PUSAULI-VARANASI	1	11	74	0.0	0.9	-0.9
7	400 kV	PUSAULI-ALLAHABAD	1	5	66	0.0	0.9	-0.9
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	0	587	0.0	8.7	-8.7
9	400 kV	PATNA-BALIA	2	0	333	0.0	6.3	-6.3
10	400 kV	NAUBATPUR-BALIA	2	0	335	0.0	5.7	-5.7
11	400 kV	BIHARSHARIFF-BALIA	2	100	178	0.0	1.2	-1.2
12	400 kV	MOTIHARI-GORAKHPUR	2	0	313	0.0	5.4	-5.4
13	400 kV	BIHARSHARIFF-VARANASI	2	89	141	0.0	1.0	-1.0
14	220 kV	SAHUPURI-KARAMNANA	1	0	88	0.0	1.1	-1.1
15	132 kV	NAGAR UNTARI-RIHAND	1	0	0	0.1	0.0	0.1
16	132 kV	GARWAH-RIHAND	1	30	0	0.5	0.0	0.5
17	132 kV	KARMANASA-SAHUPURI	1	0	35	0.0	0.0	0.0
18	132 kV	KARMANASA-CHANDAULI	1	0	0	0.0	0.0	0.0
ER-NR						0.5	59.3	-58.8
Import/Export of ER (With WR)								
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	726	467	5.1	0.0	5.1
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	1038	0	15.4	0.0	15.4
3	765 kV	JHARSUGUDA-DURG	2	0	290	0.0	4.3	-4.3
4	400 kV	JHARSUGUDA-RAIGARH	4	0	340	0.0	3.9	-3.9
5	400 kV	RANCHI-SIPAT	2	230	0	3.3	0.0	3.3
6	220 kV	BUDHIPADAR-RAIGARH	1	0	181	0.0	3.3	-3.3
7	220 kV	BUDHIPADAR-KORBA	2	110	13	1.0	0.0	1.0
ER-WR						24.8	11.4	13.4
Import/Export of ER (With SR)								
1	HVDC	JEYPORE-GAZUWAKA B/B	2	0	560	0.0	12.7	-12.7
2	HVDC	TALCHER-KOLAR BIPOLE	2	0	1998	0.0	48.0	-48.0
3	765 kV	ANGUL-SRIKAKULAM	2	0	2339	0.0	45.4	-45.4
4	400 kV	TALCHER-I/C	2	0	189	0.0	3.2	-3.2
5	220 kV	BALIMELA-UPPER-SILERRU	1	0	0	0.0	0.0	0.0
ER-SR						0.0	106.1	-106.1
Import/Export of ER (With NER)								
1	400 kV	BINAGURI-BONGAIGAON	2	124	303	0.5	2.4	-1.9
2	400 kV	ALIPURDUAR-BONGAIGAON	2	259	329	0.2	0.0	0.2
3	220 kV	ALIPURDUAR-SALAKATI	2	35	80	0.0	0.3	-0.3
ER-NER						0.7	2.7	-2.0
Import/Export of NER (With NR)								
1	HVDC	BISWANATH CHARIALI-AGRA	2	0	705	0.0	16.9	-16.9
NER-NR						0.0	16.9	-16.9
Import/Export of WR (With NR)								
1	HVDC	CHAMPA-KIRUKSHETRA	2	0	2498	0.0	58.8	-58.8
2	HVDC	VINDHYACHAL B/B	-	226	0	6.1	0.0	6.1
3	HVDC	MUNDRA-MOHINDERGARH	2	0	1909	0.0	45.2	-45.2
4	765 kV	GWALIOR-AGRA	2	0	1496	0.0	23.7	-23.7
5	765 kV	GWALIOR-PHAGI	2	196	1091	0.2	15.2	-15.0
6	765 kV	JABALPUR-ORAI	2	0	800	0.0	27.9	-27.9
7	765 kV	GWALIOR-ORAI	1	767	0	12.1	0.0	12.1
8	765 kV	SATNA-ORAI	1	0	943	0.0	18.3	-18.3
9	765 kV	BANASKANTHA-CHITORGARH	2	928	314	5.4	0.0	5.4
10	765 kV	VINDHYACHAL-VARANASI	2	0	2272	0.0	45.1	-45.1
11	400 kV	ZERDA-KANKROLI	1	134	62	0.9	0.2	0.7
12	400 kV	ZERDA -BHINMAL	1	369	256	0.0	0.4	-0.4
13	400 kV	VINDHYACHAL -RIHAND	1	967	0	22.4	0.0	22.4
14	400 kV	RAPP-SHUJALPUR	2	194	327	0.0	2.5	-2.5
15	220 kV	BHANPURA-RANPUR	1	0	73	0.0	1.1	-1.1
16	220 kV	BHANPURA-MORAK	1	0	30	0.0	2.4	-2.4
17	220 kV	MEHGAON-AURAIYA	1	166	0	2.8	0.0	2.8
18	220 kV	MALANPUR-AURAIYA	1	129	0	2.0	0.0	2.0
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						51.9	240.8	-188.9
Import/Export of WR (With SR)								
1	HVDC	BHADRAWATI B/B	-	0	1007	0.0	13.4	-13.4
2	HVDC	RAIGARH-PUGALUR	2	0	5011	0.0	93.4	-93.4
3	765 kV	SOLAPUR-RAICHUR	2	560	1363	0.8	11.4	-10.6
4	765 kV	WARDHA-NIZAMABAD	2	0	2259	0.0	39.5	-39.5
5	400 kV	KOLHAPUR-KUDGI	2	1541	0	23.1	0.0	23.1
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	119	2.3	0.0	2.3
WR-SR						26.1	157.7	-131.6

INTERNATIONAL EXCHANGES					Import(+ve)/Export(-ve) Energy Exchange (MU)		
State	Region	Line Name	Max (MW)	Min (MW)	Avg (MW)		
BHUTAN	ER	400kV MANGDECHHU-ALIPURDUAR 1,2&3 i.e. ALIPURDUAR RECEIPT (from MANGDECHHU HEP 4*180MW)	487	269	346	8.29	
	ER	400kV TALA-BINAGURI 1,2,4 (& 400kV MALBASE - BINAGURI) i.e. BINAGURI RECEIPT (from TALA HEP 6*170MW)	735	650	693	16.64	
	ER	220kV CHUKHA-BIRPARA 1&2 (& 220kV MALBASE - BIRPARA) i.e. BIRPARA RECEIPT (from CHUKHA HEP 4*84MW)	55	7	38	0.91	
	NER	132kV GELEPHU-SALAKATI	19	6	11	0.27	
	NER	132kV MOTANGA-RANGIA	62	38	49	1.18	
NEPAL	NR	132kV MAHENDRANAGAR-TANAKPUR(NHPC)	-72	0	-57	-1.38	
	ER	NEPAL IMPORT (FROM BIHAR)	0	0	0	0.00	
	ER	400kV DHALKEBAR-MUZAFFARPUR 1&2	534	13	476	11.42	
BANGLADESH	ER	BHERAMARA B/B HVDC (B'DESH)	-930	-753	-879	-21.09	
	ER (Isolated from Indian Grid)	400kV GODDA_TPS-RAHANPUR (B'DESH) D/C	-530	-483	-513	-12.30	
	NER	132kV COMILLA-SURAJMANI NAGAR 1&2	-152	0	-143	-3.42	

