

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 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 03.10.2023.

महोदय/Dear Sir,

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

धन्यवाद,

Report for previous day

Date of Reporting: 04-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)	62644	61052	48612	22976	3374	198658
Peak Shortage (MW)	170	0	0	265	160	595
Energy Met (MU)	1347	1359	1156	502	63	4426
Hydro Gen (MU)	209	59	79	127	26	500
Wind Gen (MU)	10	56	118	-	-	184
Solar Gen (MU)*	140.12	62.21	114.74	1.73	0.94	320
Energy Shortage (MU)	3.42	0.00	0.00	2.06	0.36	5.84
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	63124	63244	56019	23042	3420	201337
Time Of Maximum Demand Met	19:42	18:38	12:26	20:30	18:03	11:29

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	0.073	0.74	4.18	7.21	12.13	66.93	20.95

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	11560	0	218.9	106.2	1.1	270	0.00
	Haryana	9084	0	191.4	129.4	-2.0	151	0.00
	Rajasthan	13582	0	289.5	80.5	-3.6	235	0.00
	Delhi	4755	0	98.3	86.7	-1.3	112	0.00
	UP	22004	0	421.2	189.5	-1.5	1525	0.30
	Uttarakhand	2144	0	42.0	25.7	0.0	126	0.00
	HP	1669	0	32.4	15.5	-0.1	135	0.00
	J&K(UT) & Ladakh(UT)	2132	65	45.2	30.3	2.9	335	3.12
	Chandigarh	250	0	5.0	5.3	-0.3	9	0.00
Railways NR ISTS	164	0	3.3	3.4	-0.1	15	0.00	
WR	Chhattisgarh	4402	0	97.7	40.8	-1.6	184	0.00
	Gujarat	20054	0	427.9	187.8	-1.7	614	0.00
	MP	12099	0	255.2	132.0	-4.7	340	0.00
	Maharashtra	23652	0	506.1	200.1	-0.1	585	0.00
	Goa	682	0	11.4	10.7	0.1	36	0.00
	DNHDDPDCL	1273	0	28.5	28.5	0.0	74	0.00
	AMNSIL	866	0	19.3	9.8	0.0	316	0.00
	BALCO	522	0	12.4	12.5	-0.1	7	0.00
SR	Andhra Pradesh	10542	0	217.1	84.2	0.1	583	0.00
	Telangana	12590	0	249.5	124.5	0.9	840	0.00
	Karnataka	13941	0	247.0	99.7	2.5	1084	0.00
	Kerala	3892	0	76.5	56.6	-0.2	256	0.00
	Tamil Nadu	17048	0	355.7	160.7	0.7	546	0.00
	Puducherry	449	0	10.0	9.5	-0.2	29	0.00
ER	Bihar	5415	0	112.9	106.0	-2.6	328	2.06
	DVC	3205	0	68.5	-24.0	1.5	405	0.00
	Jharkhand	1579	0	29.8	21.0	-2.3	197	0.00
	Odisha	5539	0	117.0	51.0	-1.7	316	0.00
	West Bengal	8119	0	172.6	55.0	-2.9	150	0.00
	Sikkim	85	0	1.3	1.4	-0.1	7	0.00
Railways ER ISTS	14	0	0.2	0.2	0.0	9	0.00	
NER	Arunachal Pradesh	178	0	3.0	2.7	0.1	44	0.00
	Assam	2313	0	41.1	31.9	1.5	357	0.36
	Manipur	188	0	2.8	2.9	-0.1	18	0.00
	Meghalaya	328	0	5.7	1.8	-0.1	59	0.00
	Mizoram	121	0	1.7	1.2	-0.4	9	0.00
	Nagaland	157	0	3.0	2.6	-0.1	18	0.00
Tripura	293	0	5.5	5.3	-0.3	18	0.00	

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

	Bhutan	Nepal	Bangladesh	Godda -> Bangladesh
Actual (MU)	26.1	11.5	-24.7	-23.9
Day Peak (MW)	1356.8	576.0	-1081.0	-1329.6

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	122.7	-236.4	113.1	-99.8	-0.5	-100.9
Actual(MU)	250.0	-238.4	161.8	-184.0	1.2	-9.3
O/D/U/D(MU)	127.4	-1.9	48.7	-84.2	1.7	91.6

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL	% Share
Central Sector	4659	10889	7838	870	505	24760	48
State Sector	6546	10607	5902	3500	129	26684	52
Total	11205	21496	13740	4370	634	51444	100

G. Sourcewise generation (Gross) (MU)

	NR	WR	SR	ER	NER	All India	% Share
Coal	738	1442	609	619	14	3423	72
Lignite	32	19	38	0	0	90	2
Hydro	209	59	79	127	26	500	10
Nuclear	25	53	71	0	0	149	3
Gas, Naptha & Diesel	17	23	6	0	27	73	2
RES (Wind, Solar, Biomass & Others)	156	122	262	4	1	544	11
Total	1176	1718	1066	750	68	4779	100

Share of RES in total generation (%)	13.24	7.08	24.59	0.51	1.38	11.39
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	33.22	13.63	38.64	17.45	38.84	24.99

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.037
Based on State Max Demands	1.077

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

	Max Demand Met(MW)	Time	Shortage(MW)
Solar hr	201337	11:29	69
Non-Solar hr	199331	19:17	595

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-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	1302	0.0	32.0	-32.0
2	HVDC	PUSAULI B/B	-	0	97	0.0	2.5	-2.5
3	765 kV	GAYA-VARANASI	2	43	704	0.0	11.1	-11.1
4	765 kV	SASARAM-FATEHPUR	1	0	524	0.0	9.2	-9.2
5	765 kV	GAYA-BALIA	1	0	643	0.0	10.2	-10.2
6	400 kV	PUSAULI-VARANASI	1	6	73	0.0	0.7	-0.7
7	400 kV	PUSAULI-ALLAHABAD	1	0	113	0.0	1.7	-1.7
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	0	800	0.0	12.8	-12.8
9	400 kV	PATNA-BALIA	2	0	522	0.0	9.8	-9.8
10	400 kV	NAUBATPUR-BALIA	2	0	556	0.0	9.9	-9.9
11	400 kV	BIHARSHARIFF-BALIA	2	51	281	0.0	4.2	-4.2
12	400 kV	MOTIHARI-GORAKHPUR	2	0	451	0.0	7.5	-7.5
13	400 kV	BIHARSHARIFF-VARANASI	2	85	297	0.0	4.0	-4.0
14	220 kV	SAHUPURI-KARAMNUSA	1	0	127	0.0	1.9	-1.9
15	132 kV	NAGAR UNTARI-RIHAND	1	0	0	0.0	0.0	0.0
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						0.4	117.4	-117.0
Import/Export of ER (With WR)								
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	946	378	5.8	0.0	5.8
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	692	264	4.7	0.0	4.7
3	765 kV	JHARSUGUDA-DURG	2	0	513	0.0	8.6	-8.6
4	400 kV	JHARSUGUDA-RAIGARH	4	0	446	0.0	5.8	-5.8
5	400 kV	RANCHI-SIPAT	2	76	187	0.0	0.6	-0.6
6	220 kV	BUDHIPADAR-RAIGARH	1	0	76	0.0	0.1	-0.1
7	220 kV	BUDHIPADAR-KORBA	2	85	6	0.7	0.0	0.7
ER-WR						11.2	15.1	-3.9
Import/Export of ER (With SR)								
1	HVDC	JEYPORE-GAZUWAKA B/B	2	0	387	0.0	8.5	-8.5
2	HVDC	TALCHER-KOLAR BIPOLE	2	0	1643	0.0	39.6	-39.6
3	765 kV	ANGUL-SRIKAKULAM	2	0	2709	0.0	48.5	-48.5
4	400 kV	TALCHER-I/C	2	262	0	5.1	0.0	5.1
5	220 kV	BALIMELA-UPPER-SILERRU	1	0	0	0.0	0.0	0.0
ER-SR						0.0	96.6	-96.6
Import/Export of ER (With NER)								
1	400 kV	BINAGURI-BONGAIGAON	2	0	452	0.0	7.7	-7.7
2	400 kV	ALIPURDUAR-BONGAIGAON	2	109	309	0.0	3.1	-3.1
3	220 kV	ALIPURDUAR-SALAKATI	2	0	107	0.0	1.5	-1.5
ER-NER						0.0	12.2	-12.2
Import/Export of NER (With NR)								
1	HVDC	BISWANATH CHARIALI-AGRA	2	0	504	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	1509	0.0	36.1	-36.1
2	HVDC	VINDHYACHAL B/B	-	46	0	1.2	0.0	1.2
3	HVDC	MUNDRA-MOHINDERGARH	2	0	1450	0.0	29.6	-29.6
4	765 kV	GWALIOR-AGRA	2	0	1711	0.0	20.7	-20.7
5	765 kV	GWALIOR-PHAGI	2	289	1526	0.5	20.6	-20.1
6	765 kV	JABALPUR-ORAI	2	0	950	0.0	26.0	-26.0
7	765 kV	GWALIOR-ORAI	1	718	0	12.3	0.0	12.3
8	765 kV	SATNA-ORAI	1	0	977	0.0	19.5	-19.5
9	765 kV	BANASKANTHA-CHITORGARH	2	1517	188	18.2	0.0	18.2
10	765 kV	VINDHYACHAL-VARANASI	2	0	2186	0.0	36.2	-36.2
11	400 kV	ZERDA-KANKROLI	1	274	53	3.1	0.0	3.1
12	400 kV	ZERDA -BHINMAL	1	550	167	4.1	0.0	4.1
13	400 kV	VINDHYACHAL -RIHAND	1	957	0	22.0	0.0	22.0
14	400 kV	RAPP-SHUJALPUR	2	370	464	0.0	1.7	-1.7
15	220 kV	BHANPURA-RANPUR	1	0	99	0.0	1.7	-1.7
16	220 kV	BHANPURA-MORAK	1	0	30	0.0	2.2	-2.2
17	220 kV	MEHGAON-AURAIYA	1	113	0	1.8	0.0	1.8
18	220 kV	MALANPUR-AURAIYA	1	82	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						64.4	194.3	-129.9
Import/Export of WR (With SR)								
1	HVDC	BHADRAWATI B/B	-	0	1011	0.0	19.1	-19.1
2	HVDC	RAIGARH-PUGALUR	2	0	3507	0.0	69.2	-69.2
3	765 kV	SOLAPUR-RAICHUR	2	588	1625	2.3	8.7	-6.4
4	765 kV	WARDHA-NIZAMABAD	2	0	2686	0.0	37.5	-37.5
5	400 kV	KOLHAPUR-KUDGI	2	1141	0	18.5	0.0	18.5
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	123	2.3	0.0	2.3
WR-SR						23.1	134.5	-111.4

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)	425	61	292		7.02
	ER	400kV TALA-BINAGURI 1,2,4 (& 400kV MALBASE - BINAGURI) i.e. BINAGURI RECEIPT (from TALA HEP 6*170MW)	970	704	802		19.25
	ER	220kV CHUKHA-BIRPARA 1&2 (& 220kV MALBASE - BIRPARA) i.e. BIRPARA RECEIPT (from CHUKHA HEP 4*84MW)	148	12	52		1.25
	NER	132kV GELEPHU-SALAKATI	-20	-1	-10		-0.25
	NER	132kV MOTANGA-RANGIA	-64	0	-49		-1.18
NEPAL	NR	132kV MAHENDRANAGAR-TANAKPUR(NHPC)	0	0	0		1.04
	ER	NEPAL IMPORT (FROM BIHAR)	0	0	0		0.00
	ER	400kV DHALKEBAR-MUZAFFARPUR 1&2	615	455	520		12.49
BANGLADESH	ER	BHERAMARA B/B HVDC (B'DESH)	-933	-783	-897		-21.52
	ER (Isolated from Indian Grid)	400kV GODDA_TPS-RAHANPUR (B'DESH) D/C	-1330	-559	-994		-23.86
	NER	132kV COMILLA-SURAJMANI NAGAR 1&2	-148	0	-131		-3.14

CROSS BORDER EXCHANGE SCHEDULE

Date of Reporting: 04-Oct-2023

Export From India (in MU)

Country	GNA (ISGS/PPA)	T-GNA							TOTAL
		BILATERAL TOTAL	COLLECTIVE						
			IDAM			RTM			
			IEX	PXIL	HPX	IEX	PXIL	HPX	
Bhutan	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Nepal	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Bangladesh	4.74	0.00	0.00	0.00	0.00	0.00	0.00	0.00	4.74
Myanmar	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total Export	4.74	0.00	0.00	0.00	0.00	0.00	0.00	0.00	4.74

Import by India(in MU)

Country	GNA (ISGA/PPA)	T-GNA							TOTAL
		BILATERAL TOTAL	COLLECTIVE						
			IDAM			RTM			
			IEX	PXIL	HPX	IEX	PXIL	HPX	
Bhutan	25.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	25.00
Nepal	0.00	0.00	11.33	0.00	0.00	0.19	0.00	0.00	11.52
Bangladesh	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Myanmar	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total Import	25.00	0.00	11.33	0.00	0.00	0.19	0.00	0.00	36.52

Net from India(in MU)

-ve : Export / +ve : Import

Country	GNA (ISGS/PPA)	T-GNA							TOTAL
		BILATERAL TOTAL	COLLECTIVE						
			IDAM			RTM			
			IEX	PXIL	HPX	IEX	PXIL	HPX	
Bhutan	25.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	25.00
Nepal	0.00	0.00	11.33	0.00	0.00	0.19	0.00	0.00	11.52
Bangladesh	-4.74	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-4.74
Myanmar	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total Net	20.26	0.00	11.33	0.00	0.00	0.19	0.00	0.00	31.78