



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: 08th May 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., डोंगतेिह, 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 07.05.2023.

महोदय/Dear Sir,

आई०ई०जी०सी०-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 07-मई-2023 की अखिल भारतीय प्रणाली की

दैनिक ग्रीड निष्पादन रिपोर्ट रा०भा०प्रे०के० 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 07th May 2023, is available at the NLDC website.

धन्यवाद,

Report for previous day

Date of Reporting: 08-May-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)	52877	55148	40873	24311	2937	176146
Peak Shortage (MW)	0	0	0	592	14	606
Energy Met (MU)	1125	1325	945	549	53	3998
Hydro Gen (MU)	188	29	62	63	11	353
Wind Gen (MU)	29	77	42	-	-	147
Solar Gen (MU)*	134.99	62.82	94.07	5.42	1.38	299
Energy Shortage (MU)	0.92	0.00	0.00	1.63	0.89	3.44
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	53111	58842	41849	26218	2957	180377
Time Of Maximum Demand Met	19:54	00:02	12:35	23:40	18:44	22:45

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	0.044	0.00	0.19	6.63	6.82	74.97	18.22

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	7100	0	136.3	64.2	-1.9	200	0.00
	Haryana	6740	0	138.6	97.9	-1.0	215	0.00
	Rajasthan	13235	0	262.2	61.8	-6.7	335	0.00
	Delhi	3816	0	82.1	81.4	-1.9	54	0.00
	UP	19621	0	381.5	141.4	0.7	373	0.00
	Uttarakhand	1855	0	38.9	20.7	-0.4	174	0.00
	HP	1312	0	25.5	8.4	0.5	119	0.92
	J&K(UT) & Ladakh(UT)	2698	0	51.9	37.7	-0.5	256	0.00
	Chandigarh	218	0	4.2	3.6	0.6	70	0.00
Railways_NR ISTS	175	0	3.6	3.3	0.3	37	0.00	
WR	Chhattisgarh	4516	0	102.6	42.7	-1.1	107	0.00
	Gujarat	17943	0	403.3	202.2	0.0	927	0.00
	MP	9955	0	221.0	134.6	-3.2	404	0.00
	Maharashtra	23745	0	526.2	212.5	-1.9	609	0.00
	Goa	664	0	13.7	13.8	-0.4	36	0.00
	DNHDDPDCL	1229	0	28.1	28.4	-0.3	25	0.00
	AMNSIL	832	0	17.9	8.9	-0.2	283	0.00
	BALCO	516	0	12.4	12.5	-0.1	7	0.00
SR	Andhra Pradesh	8949	0	190.3	57.2	0.1	498	0.00
	Telangana	7337	0	162.6	37.1	-0.9	558	0.00
	Karnataka	11171	0	222.8	89.6	-1.3	344	0.00
	Kerala	4156	0	81.6	64.1	-0.5	158	0.00
	Tamil Nadu	12621	0	279.5	161.0	-1.8	290	0.00
	Puducherry	365	0	8.7	8.7	-0.7	82	0.00
ER	Bihar	6088	0	123.1	114.3	-2.0	172	0.18
	DVC	3265	0	77.7	-41.6	1.2	184	0.00
	Jharkhand	1594	0	33.4	27.7	-2.3	159	1.45
	Odisha	5242	0	118.9	43.4	-2.2	459	0.00
	West Bengal	9798	0	195.0	58.2	-2.3	238	0.00
	Sikkim	71	0	1.1	1.3	-0.3	19	0.00
	Railways_ER ISTS	8	0	0.1	0.2	-0.1	0	0.00
NER	Arunachal Pradesh	155	0	2.3	2.4	-0.1	25	0.00
	Assam	1836	0	33.3	27.5	0.1	95	0.00
	Manipur	170	0	2.2	2.2	0.0	26	0.00
	Meghalaya	313	14	5.5	3.6	0.4	72	0.89
	Mizoram	103	0	1.8	1.7	-0.2	5	0.00
	Nagaland	145	0	2.4	2.5	-0.1	8	0.00
	Tripura	321	0	5.6	5.4	0.4	37	0.00

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

	Bhutan	Nepal	Bangladesh	Godda -> Bangladesh
Actual (MU)	3.5	-12.9	-25.7	-18.1
Day Peak (MW)	522.0	-679.5	-1101.0	-787.9

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	149.4	-145.8	88.6	-97.8	5.5	0.0
Actual(MU)	133.1	-133.8	93.1	-103.4	6.4	-4.5
O/D/U/D(MU)	-16.3	12.0	4.5	-5.6	0.9	-4.5

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL	% Share
Central Sector	7357	11564	7708	1390	425	28444	50
State Sector	8110	11944	6421	1690	264	28428	50
Total	15467	23507	14129	3080	689	56871	100

G. Sourcewise generation (Gross) (MU)

	NR	WR	SR	ER	NER	All India	% Share
Coal	625	1338	586	666	14	3229	75
Lignite	22	20	47	0	0	89	2
Hydro	188	29	62	63	11	353	8
Nuclear	29	36	56	0	0	122	3
Gas, Naptha & Diesel	8	4	7	0	28	47	1
RES (Wind, Solar, Biomass & Others)	178	140	160	6	1	485	11
Total	1051	1569	917	734	54	4325	100

Share of RES in total generation (%)	16.97	8.94	17.40	0.77	2.54	11.22
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	37.66	13.14	30.28	9.31	22.64	22.20

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.014
Based on State Max Demands	1.052

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

	Max Demand Met(MW)	Time	Shortage(MW)
Solar hr	171754	12:47	121
Non-Solar hr	180377	22:45	264

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: 08-May-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	97	0.0	2.4	-2.4
3	765 kV	GAYA-VARANASI	2	462	606	0.0	2.5	-2.5
4	765 kV	SASARAM-FATEHPUR	1	93	371	0.0	3.2	-3.2
5	765 kV	GAYA-BALIA	1	0	721	0.0	11.4	-11.4
6	400 kV	PUSAULI-VARANASI	1	0	113	0.0	1.7	-1.7
7	400 kV	PUSAULI -ALLAHABAD	1	7	64	0.0	0.6	-0.6
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	54	662	0.0	7.5	-7.5
9	400 kV	PATNA-BALIA	2	0	640	0.0	8.7	-8.7
10	400 kV	NAUBATPUR-BALIA	2	0	682	0.0	9.0	-9.0
11	400 kV	BIHARSHARIFF-BALIA	2	190	360	0.0	1.8	-1.8
12	400 kV	MOTTHARI-GORAKHPUR	2	0	553	0.0	7.4	-7.4
13	400 kV	BIHARSHARIFF-VARANASI	2	231	260	0.0	0.6	-0.6
14	220 kV	SAHUPURI-KARAMNANA	1	0	178	0.0	2.9	-2.9
15	132 kV	NAGAR UNTARI-RIHAND	1	0	0	0.0	0.0	0.0
16	132 kV	GARWAH-RIHAND	1	25	0	0.4	0.0	0.4
17	132 kV	KARMANASA-SAHUPURI	1	0	22	0.0	0.0	0.0
18	132 kV	KARMANASA-CHANDAULI	1	0	0	0.0	0.0	0.0
ER-NR						0.4	59.6	-59.2
Import/Export of ER (With WR)								
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	1051	0	11.0	0.0	11.0
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	1118	153	14.7	0.0	14.7
3	765 kV	JHARSUGUDA-DURG	2	0	548	0.0	8.6	-8.6
4	400 kV	JHARSUGUDA-RAIGARH	4	52	489	0.0	6.6	-6.6
5	400 kV	RANCHI-SIPAT	2	288	106	2.7	0.0	2.7
6	220 kV	BUDHIPADAR-RAIGARH	1	24	44	0.0	1.1	-1.1
7	220 kV	BUDHIPADAR-KORBA	2	119	0	1.6	0.0	1.6
ER-WR						29.9	16.2	13.7
Import/Export of ER (With SR)								
1	HVDC	JEYPORE-GAZUWAKA B/B	2	0	546	0.0	12.6	-12.6
2	HVDC	TALCHER-KOLAR BIPOLE	2	0	1642	0.0	39.6	-39.6
3	765 kV	ANGUL-SRIKAKULAM	2	0	2615	0.0	50.1	-50.1
4	400 kV	TALCHER-I/C	2	249	595	1.8	0.0	1.8
5	220 kV	BALIMELA-UPPER-SILERRU	1	0	0	0.0	0.0	0.0
ER-SR						0.0	102.3	-102.3
Import/Export of ER (With NER)								
1	400 kV	BINAGURI-BONGAIGAON	2	99	96	0.9	0.6	0.3
2	400 kV	ALIPURDUAR-BONGAIGAON	2	287	239	0.6	0.0	0.6
3	220 kV	ALIPURDUAR-SALAKATI	2	60	35	0.4	0.0	0.4
ER-NER						1.9	0.6	1.3
Import/Export of NER (With NR)								
1	HVDC	BISWANATH CHARIALI-AGRA	2	285	0	6.8	0.0	6.8
NER-NR						6.8	0.0	6.8
Import/Export of WR (With NR)								
1	HVDC	CHAMPA-KURUKSHETRA	2	0	1498	0.0	29.9	-29.9
2	HVDC	VINDHYACHAL B/B	-	245	0	6.1	0.0	6.1
3	HVDC	MUNDRA-MOHINDERGARH	2	315	0	7.2	0.0	7.2
4	765 kV	GWALIOR-AGRA	2	0	1840	0.0	30.0	-30.0
5	765 kV	GWALIOR-PHAGI	2	245	1361	0.6	16.3	-15.7
6	765 kV	JABALPUR-ORAI	2	0	692	0.0	19.5	-19.5
7	765 kV	GWALIOR-ORAI	1	870	0	15.4	0.0	15.4
8	765 kV	SATNA-ORAI	1	0	815	0.0	16.7	-16.7
9	765 kV	BANASKANTHA-CHITORGARH	2	1598	0	19.4	0.0	19.4
10	765 kV	VINDHYACHAL-VARANASI	2	0	2869	0.0	54.0	-54.0
11	400 kV	ZERDA-KANKROLI	1	313	0	4.2	0.0	4.2
12	400 kV	ZERDA-BHINMAL	1	645	76	6.7	0.1	6.6
13	400 kV	VINDHYACHAL -RIHAND	1	958	0	21.3	0.0	21.3
14	400 kV	RAPP-SHUJALPUR	2	489	310	3.4	1.7	1.7
15	220 kV	BHANPURA-RANPUR	1	0	0	0.0	0.0	0.0
16	220 kV	BHANPURA-MORAK	1	0	30	0.0	2.1	-2.1
17	220 kV	MEHGAON-AURAIYA	1	60	2	0.3	0.0	0.3
18	220 kV	MALANPUR-AURAIYA	1	46	12	0.1	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						84.7	170.4	-85.7
Import/Export of WR (With SR)								
1	HVDC	BHADRAWATI B/B	-	0	1003	0.0	14.2	-14.2
2	HVDC	RAIGARH-PUGALUR	2	0	2001	0.0	32.4	-32.4
3	765 kV	SOLAPUR-RAICHUR	2	1089	1140	8.6	3.8	4.9
4	765 kV	WARDHA-NIZAMABAD	2	0	1808	0.0	19.2	-19.2
5	400 kV	KOLHAPUR-KUDGI	2	1353	0	24.7	0.0	24.7
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	103	2.1	0.0	2.1
WR-SR						35.4	69.5	-34.1

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)	185	43	-90	-2.15	
	ER	400kV TALA-BINAGURI 1,2,4 (& 400kV MALBASE - BINAGURI) i.e. BINAGURI RECEIPT (from TALA HEP 6*170MW)	406	158	278	6.67	
	ER	220kV CHUKHA-BIRPARA 1&2 (& 220kV MALBASE - BIRPARA) i.e. BIRPARA RECEIPT (from CHUKHA HEP 4*84MW)	-99	-16	-69	-1.66	
	NER	132kV GELEPHU-SALAKATI	-8	4	-3	-0.06	
	NER	132kV MOTANGA-RANGIA	41	0	29	0.69	
NEPAL	NR	132kV MAHENDRANAGAR-TANAKPUR(NHPC)	-74	0	-60	-1.43	
	ER	NEPAL IMPORT (FROM BIHAR)	-150	-61	-97	-2.32	
	ER	400kV DHALKEBAR-MUZAFFARPUR 1&2	-456	-263	-381	-9.15	
BANGLADESH	ER	BHERAMARA B/B HVDC (B'DESH)	-927	-865	-917	-22.01	
	ER (Isolated from Indian Grid)	400kV GODDA_TPS-RAHANPUR (B'DESH) D/C	-788	-691	-752	-18.05	
	NER	132kV COMILLA-SURAJMANI NAGAR 1&2	-174	0	-155	-3.72	