



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: 12th 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., डोंगतेह, लोअर नोंग्रह, लापालंग, 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 11.05.2023.

महोदय/Dear Sir,

आई०ई०जी०सी०-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 11-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 11th May 2023, is available at the NLDC website.

धन्यवाद,

Report for previous day

Date of Reporting: 12-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)	59520	61600	46027	26146	2956	196249
Peak Shortage (MW)	250	0	0	221	25	496
Energy Met (MU)	1322	1465	1071	593	57	4508
Hydro Gen (MU)	182	36	61	53	9	341
Wind Gen (MU)	4	89	64	-	-	158
Solar Gen (MU)*	145.06	70.22	119.21	3.45	1.26	339
Energy Shortage (MU)	1.31	0.00	0.00	3.13	1.57	6.01
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	60808	67054	49984	27235	3132	202891
Time Of Maximum Demand Met	22:53	15:50	12:24	23:43	19:01	14:49

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	0.047	0.00	0.93	6.52	7.44	69.77	22.79

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	8856	0	179.2	67.4	0.2	152	0.00
	Haryana	8612	0	178.3	124.3	0.6	255	0.00
	Rajasthan	14784	0	294.7	98.4	-1.0	228	0.00
	Delhi	4808	0	99.8	92.0	-1.8	57	0.00
	UP	22163	0	431.1	173.1	-3.1	218	0.00
	Uttarakhand	2094	0	44.2	28.5	0.7	198	0.15
	HP	1584	0	30.2	12.7	0.4	91	0.00
	J&K(UT) & Ladakh(UT)	2769	0	55.9	39.5	-3.6	0	1.16
	Chandigarh	239	0	4.9	5.0	-0.1	9	0.00
Railways NR ISTS	174	0	3.8	3.3	0.6	41	0.00	
WR	Chhattisgarh	4722	0	106.6	43.9	-1.9	172	0.00
	Gujarat	20512	0	447.0	192.1	-1.2	572	0.00
	MP	11438	0	250.7	137.6	-2.1	365	0.00
	Maharashtra	26948	0	587.2	215.0	-0.9	573	0.00
	Goa	745	0	15.9	15.6	0.0	57	0.00
	DNHDDPDCL	1229	0	28.8	29.4	-0.6	51	0.00
	AMNSIL	785	0	16.8	10.5	0.0	249	0.00
	BALCO	518	0	12.4	12.5	-0.1	9	0.00
SR	Andhra Pradesh	10496	0	219.6	73.6	1.4	1005	0.00
	Telangana	8974	0	186.7	51.8	0.0	672	0.00
	Karnataka	11374	0	218.4	80.8	-1.4	927	0.00
	Kerala	4253	0	92.7	67.5	-0.4	117	0.00
	Tamil Nadu	16154	0	344.0	178.7	-3.6	332	0.00
	Puducherry	470	0	10.1	10.0	-0.6	52	0.00
ER	Bihar	6416	123	129.3	119.0	-2.2	316	1.32
	DVC	3608	0	77.9	-50.1	0.0	280	0.00
	Jharkhand	1697	0	35.6	31.1	-3.6	154	1.82
	Odisha	6123	0	123.2	44.6	-2.1	272	0.00
	West Bengal	10963	0	225.3	89.1	-2.5	225	0.00
	Sikkim	95	0	1.5	1.1	0.3	65	0.00
Railways ER ISTS	7	0	0.2	0.2	0.0	0	0.00	
NER	Arunachal Pradesh	142	0	2.5	1.9	0.4	27	0.00
	Assam	1992	0	36.2	29.7	0.6	208	0.28
	Manipur	182	0	2.5	2.4	0.1	32	0.00
	Meghalaya	297	25	4.8	3.5	0.1	66	1.29
	Mizoram	116	0	1.9	1.8	-0.2	10	0.00
	Nagaland	146	0	2.5	2.5	0.0	17	0.00
Tripura	333	0	6.2	6.7	0.7	91	0.00	

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

	Bhutan	Nepal	Bangladesh	Godda -> Bangladesh
Actual (MU)	3.0	-13.6	-25.5	-17.7
Day Peak (MW)	298.9	-734.2	-1128.0	-1013.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	220.8	-221.4	65.1	-72.6	8.1	0.0
Actual(MU)	206.8	-225.8	72.6	-66.3	10.4	-2.4
O/D/U/D(MU)	-14.0	-4.5	7.5	6.3	2.3	-2.4

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL	% Share
Central Sector	4797	6587	4808	1890	460	18542	48
State Sector	7240	8007	3551	1030	277	20104	52
Total	12037	14594	8359	2920	737	38646	100

G. Sourcewise generation (Gross) (MU)

	NR	WR	SR	ER	NER	All India	% Share
Coal	787	1515	694	689	15	3700	76
Lignite	20	20	48	0	0	89	2
Hydro	182	36	61	53	9	341	7
Nuclear	25	48	52	0	0	125	3
Gas, Naptha & Diesel	16	40	6	0	29	91	2
RES (Wind, Solar, Biomass & Others)	162	161	212	4	1	540	11
Total	1192	1820	1073	746	54	4885	100

Share of RES in total generation (%)	13.56	8.83	19.79	0.56	2.34	11.05
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	30.97	13.46	30.24	7.66	18.72	20.59

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.026
Based on State Max Demands	1.068

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

	Max Demand Met(MW)	Time	Shortage(MW)
Solar hr	202891	14:49	70
Non-Solar hr	200799	22:52	856

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-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	2.2	-2.2
3	765 kV	GAYA-VARANASI	2	616	634	0.0	3.2	-3.2
4	765 kV	SASARAM-FATEHPUR	1	270	313	0.0	2.0	-2.0
5	765 kV	GAYA-BALIA	1	0	715	0.0	12.3	-12.3
6	400 kV	PUSAULI-VARANASI	1	0	116	0.0	1.5	-1.5
7	400 kV	PUSAULI-ALLAHABAD	1	10	80	0.0	0.7	-0.7
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	347	417	0.0	2.1	-2.1
9	400 kV	PATNA-BALIA	2	10	461	0.0	7.1	-7.1
10	400 kV	NAUBATPUR-BALIA	2	52	467	0.0	7.0	-7.0
11	400 kV	BIHARSHARIFF-BALIA	2	309	217	0.0	0.2	-0.2
12	400 kV	MOTIHARI-GORAKHPUR	2	149	393	0.0	4.0	-4.0
13	400 kV	BIHARSHARIFF-VARANASI	2	286	250	0.0	0.9	-0.9
14	220 kV	SAHUPURI-KARAMNANA	1	0	174	0.0	0.1	-0.1
15	132 kV	NAGAR UNTARI-RIHAND	1	0	0	0.1	0.0	0.1
16	132 kV	GARWAH-RIHAND	1	25	0	0.0	0.0	0.0
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						0.1	43.4	-43.3
Import/Export of ER (With WR)								
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	582	182	5.5	0.0	5.5
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	1701	0	26.9	0.0	26.9
3	765 kV	JHARSUGUDA-DURG	2	0	408	0.0	5.3	-5.3
4	400 kV	JHARSUGUDA-RAIGARH	4	111	412	0.0	4.2	-4.2
5	400 kV	RANCHI-SIPAT	2	414	23	4.7	0.0	4.7
6	220 kV	BUDHIPADAR-RAIGARH	1	32	79	0.0	1.0	-1.0
7	220 kV	BUDHIPADAR-KORBA	2	176	0	1.2	0.0	1.2
ER-WR						38.3	10.5	27.8
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	1784	0.0	40.5	-40.5
3	765 kV	ANGUL-SRIKAKULAM	2	0	2285	0.0	41.7	-41.7
4	400 kV	TALCHER-I/C	2	261	81	3.4	0.0	3.4
5	220 kV	BALIMELA-UPPER-SILERRU	1	0	0	0.0	0.0	0.0
ER-SR						0.0	94.8	-94.8
Import/Export of ER (With NER)								
1	400 kV	BINAGURI-BONGAIGAON	2	44	184	0.2	1.3	-1.2
2	400 kV	ALIPURDUAR-BONGAIGAON	2	229	470	0.0	1.6	-1.6
3	220 kV	ALIPURDUAR-SALAKATI	2	55	52	0.2	0.0	0.2
ER-NER						0.3	3.0	-2.6
Import/Export of NER (With NR)								
1	HVDC	BISWANATH CHARIALI-AGRA	2	290	0	7.1	0.0	7.1
NER-NR						7.1	0.0	7.1
Import/Export of WR (With NR)								
1	HVDC	CHAMPA-KIRUKSHETRA	2	0	2523	0.0	45.4	-45.4
2	HVDC	VINDHYACHAL B/B	-	244	0	3.9	0.0	3.9
3	HVDC	MUNDRA-MOHINDERGARH	2	0	980	0.0	16.9	-16.9
4	765 kV	GWALIOR-AGRA	2	0	1916	0.0	34.6	-34.6
5	765 kV	GWALIOR-PHAGI	2	430	1411	0.7	19.0	-18.3
6	765 kV	JABALPUR-ORAI	2	0	974	0.0	29.8	-29.8
7	765 kV	GWALIOR-ORAI	1	648	0	11.6	0.0	11.6
8	765 kV	SATNA-ORAI	1	0	951	0.0	19.9	-19.9
9	765 kV	BANASKANTHA-CHITORGARH	2	1134	291	10.1	0.5	9.6
10	765 kV	VINDHYACHAL-VARANASI	2	0	2896	0.0	56.5	-56.5
11	400 kV	ZERDA-KANKROLI	1	228	33	1.9	0.0	1.9
12	400 kV	ZERDA -BHINMAL	1	449	156	3.1	0.9	2.2
13	400 kV	VINDHYACHAL -RIHAND	1	971	0	21.9	0.0	21.9
14	400 kV	RAPP-SHUJALPUR	2	352	421	1.7	3.6	-1.9
15	220 kV	BHANPURA-RANPUR	1	0	0	0.0	0.0	0.0
16	220 kV	BHANPURA-MORAK	1	0	30	0.0	2.2	-2.2
17	220 kV	MEHGAON-AURAIYA	1	50	6	0.4	0.0	0.4
18	220 kV	MALANPUR-AURAIYA	1	39	19	0.2	0.0	0.2
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						55.5	229.3	-173.8
Import/Export of WR (With SR)								
1	HVDC	BHADRAWATI B/B	-	0	1005	0.0	13.8	-13.8
2	HVDC	RAIGARH-PUGALUR	2	0	2004	0.0	33.7	-33.7
3	765 kV	SOLAPUR-RAICHUR	2	1651	413	12.4	0.7	11.7
4	765 kV	WARDHA-NIZAMABAD	2	0	1443	0.0	18.5	-18.5
5	400 kV	KOLHAPUR-KUDGI	2	1591	0	27.7	0.0	27.7
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	127	2.5	0.0	2.5
WR-SR						42.5	66.7	-24.2

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)	132	-62	24	0.57	
	ER	400kV TALA-BINAGURI 1,2,4 (& 400kV MALBASE - BINAGURI) i.e. BINAGURI RECEIPT (from TALA HEP 6*170MW)	277	42	156	3.74	
	ER	220kV CHUKHA-BIRPARA 1&2 (& 220kV MALBASE - BIRPARA) i.e. BIRPARA RECEIPT (from CHUKHA HEP 4*84MW)	-109	-11	-76	-1.82	
	NER	132kV GELEPHU-SALAKATI	-13	5	-5	-0.13	
	NER	132kV MOTANGA-RANGIA	41	-1	26	0.63	
NEPAL	NR	132kV MAHENDRANAGAR-TANAKPUR(NHPC)	-76	0	-66	-1.59	
	ER	NEPAL IMPORT (FROM BIHAR)	-141	-29	-90	-2.16	
	ER	400kV DHALKEBAR-MUZAFFARPUR 1&2	-517	-203	-410	-9.83	
BANGLADESH	ER	BHERAMARA B/B HVDC (B'DESH)	-939	-816	-907	-21.77	
	ER (Isolated from Indian Grid)	400kV GODDA_TPS-RAHANPUR (B'DESH) D/C	-1013	-546	-739	-17.74	
	NER	132kV COMILLA-SURAJMANI NAGAR 1&2	-189	0	-157	-3.76	