



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: 13th 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 12.05.2023.

महोदय/Dear Sir,

आई०ई०जी०सी०-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 12-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 12th May 2023, is available at the NLDC website.

धन्यवाद,

Report for previous day

Date of Reporting: 13-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)	61733	61521	47338	26575	3040	200207
Peak Shortage (MW)	130	0	0	282	57	469
Energy Met (MU)	1378	1467	1085	594	57	4581
Hydro Gen (MU)	196	36	61	47	8	348
Wind Gen (MU)	26	118	105	-	-	249
Solar Gen (MU)*	143.01	70.69	118.09	3.20	1.12	336
Energy Shortage (MU)	1.39	0.00	0.00	3.36	1.85	6.60
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	62766	66721	51211	27402	3136	207191
Time Of Maximum Demand Met	22:42	15:29	14:59	23:24	18:56	15:01

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	0.052	0.00	0.10	11.76	11.86	70.64	17.50

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	9151	0	186.3	72.1	-1.2	132	0.00
	Haryana	8827	0	184.5	142.5	-0.9	179	0.19
	Rajasthan	14969	0	301.2	106.0	-2.2	349	0.00
	Delhi	5145	0	103.9	98.0	-3.6	121	0.00
	UP	23348	0	459.2	183.7	-1.3	528	0.00
	Uttarakhand	2155	0	45.8	30.3	0.2	123	0.17
	HP	1561	0	30.5	10.9	-0.3	117	0.00
	J&K(UT) & Ladakh(UT)	2815	0	57.8	40.3	-3.3	0	1.03
	Chandigarh	252	0	5.1	5.2	-0.1	21	0.00
Railways_NR ISTS	172	0	3.8	3.3	0.5	34	0.00	
WR	Chhattisgarh	4692	0	106.5	42.2	-1.3	571	0.00
	Gujarat	20524	0	440.3	171.8	-3.3	619	0.00
	MP	11588	0	258.4	147.8	-2.5	319	0.00
	Maharashtra	26495	0	588.0	213.1	-2.6	547	0.00
	Goa	749	0	16.1	15.9	-0.1	49	0.00
	DNHDDPDCL	1244	0	29.0	29.6	-0.6	54	0.00
	AMNSIL	745	0	16.0	8.8	0.3	250	0.00
	BALCO	517	0	12.4	12.4	0.0	516	0.00
SR	Andhra Pradesh	10722	0	224.5	69.5	-1.0	595	0.00
	Telangana	8850	0	185.9	52.3	-0.9	582	0.00
	Karnataka	11289	0	220.3	69.3	-2.6	422	0.00
	Kerala	4568	0	93.0	67.8	0.1	261	0.00
	Tamil Nadu	16310	0	351.3	177.8	-2.7	527	0.00
	Puducherry	460	0	10.3	10.0	-0.4	39	0.00
ER	Bihar	6622	172	132.7	122.8	-2.4	257	1.10
	DVC	3723	0	78.2	-49.5	0.7	295	0.00
	Jharkhand	1771	0	36.2	29.8	-1.9	190	2.26
	Odisha	6305	0	122.6	46.4	-1.7	379	0.00
	West Bengal	10618	0	222.7	88.4	-3.3	101	0.00
	Sikkim	95	0	1.5	1.2	0.3	55	0.00
	Railways_ER ISTS	9	0	0.2	0.2	0.0	0	0.00
NER	Arunachal Pradesh	150	0	2.3	1.8	0.4	37	0.00
	Assam	1988	0	36.4	30.1	0.3	191	0.36
	Manipur	181	0	2.5	2.5	0.1	39	0.00
	Meghalaya	322	27	4.9	3.5	-0.1	62	1.49
	Mizoram	108	0	1.8	1.8	-0.4	6	0.00
	Nagaland	143	0	2.5	2.5	0.0	20	0.00
	Tripura	330	0	6.3	6.4	0.5	87	0.00

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

	Bhutan	Nepal	Bangladesh	Godda -> Bangladesh
Actual (MU)	1.3	-15.9	-24.2	-19.7
Day Peak (MW)	145.0	-719.8	-1099.0	-966.9

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	258.7	-266.9	70.5	-71.9	9.6	0.0
Actual(MU)	249.5	-279.4	68.5	-56.0	12.5	-4.8
O/D/U/D(MU)	-9.1	-12.5	-2.0	15.9	2.9	-4.8

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL	% Share
Central Sector	4797	7979	6418	520	460	20174	49
State Sector	8270	7537	3551	1380	277	21014	51
Total	13067	15516	9969	1900	737	41188	100

G. Sourcwise generation (Gross) (MU)

	NR	WR	SR	ER	NER	All India	% Share
Coal	771	1544	671	687	14	3687	74
Lignite	22	19	47	0	0	89	2
Hydro	196	36	61	47	8	348	7
Nuclear	25	47	52	0	0	123	2
Gas, Naptha & Diesel	16	40	6	0	29	91	2
RES (Wind, Solar, Biomass & Others)	181	190	251	4	1	627	13
Total	1211	1875	1089	738	51	4965	100

Share of RES in total generation (%)	14.96	10.11	23.07	0.52	2.18	12.63
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	33.19	14.53	33.42	6.93	17.87	22.13

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.019
Based on State Max Demands	1.059

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

	Max Demand Met(MW)	Time	Shortage(MW)
Solar hr	207191	15:01	157
Non-Solar hr	204267	22:44	432

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: 13-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	781	497	0.0	0.5	-0.5
4	765 kV	SASARAM-FATEHPUR	1	317	305	0.0	1.0	-1.0
5	765 kV	GAYA-BALIA	1	0	688	0.0	12.4	-12.4
6	400 kV	PUSAULI-VARANASI	1	0	113	0.0	1.3	-1.3
7	400 kV	PUSAULI -ALLAHABAD	1	6	87	0.0	0.9	-0.9
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	404	330	0.0	1.1	-1.1
9	400 kV	PATNA-BALIA	2	44	441	0.0	6.6	-6.6
10	400 kV	NAUBATPUR-BALIA	2	98	447	0.0	6.7	-6.7
11	400 kV	BIHARSHARIFF-BALIA	2	223	154	0.0	0.0	0.0
12	400 kV	MOTTHARI-GORAKHPUR	2	166	340	0.0	3.5	-3.5
13	400 kV	BIHARSHARIFF-VARANASI	2	354	197	0.0	0.0	0.0
14	220 kV	SAHUPURI-KARAMNANA	1	0	183	0.0	2.6	-2.6
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	19	0.0	0.0	0.0
18	132 kV	KARMANASA-CHANDAULI	1	0	0	0.0	0.0	0.0
ER-NR						0.2	39.2	-39.0
Import/Export of ER (With WR)								
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	709	357	5.6	0.0	5.6
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	1716	0	29.2	0.0	29.2
3	765 kV	JHARSUGUDA-DURG	2	0	397	0.0	5.0	-5.0
4	400 kV	JHARSUGUDA-RAIGARH	4	180	296	0.0	2.2	-2.2
5	400 kV	RANCHI-SIPAT	2	481	0	7.1	0.0	7.1
6	220 kV	BUDHIPADAR-RAIGARH	1	0	44	0.0	1.1	-1.1
7	220 kV	BUDHIPADAR-KORBA	2	150	0	2.1	0.0	2.1
ER-WR						44.0	8.3	35.6
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	1641	0.0	39.6	-39.6
3	765 kV	ANGUL-SRIKAKULAM	2	0	2542	0.0	42.3	-42.3
4	400 kV	TALCHER-I/C	2	265	18	4.5	0.0	4.5
5	220 kV	BALIMELA-UPPER-SILERRU	1	0	0	0.0	0.0	0.0
ER-SR						0.0	94.5	-94.5
Import/Export of ER (With NER)								
1	400 kV	BINAGURI-BONGAIGAON	2	9	164	0.0	1.7	-1.7
2	400 kV	ALIPURDUAR-BONGAIGAON	2	123	399	0.0	3.4	-3.4
3	220 kV	ALIPURDUAR-SALAKATI	2	46	32	0.1	0.0	0.1
ER-NER						0.1	5.1	-5.1
Import/Export of NER (With NR)								
1	HVDC	BISWANATH CHARIALI-AGRA	2	290	0	7.0	0.0	7.0
NER-NR						7.0	0.0	7.0
Import/Export of WR (With NR)								
1	HVDC	CHAMPA-KURUKSHETRA	2	0	4020	0.0	67.5	-67.5
2	HVDC	VINDHYACHAL B/B	-	245	0	6.1	0.0	6.1
3	HVDC	MUNDRA-MOHINDERGARH	2	0	979	0.0	24.2	-24.2
4	765 kV	GWALIOR-AGRA	2	0	2047	0.0	36.2	-36.2
5	765 kV	GWALIOR-PHAGI	2	520	1471	1.0	19.5	-18.6
6	765 kV	JABALPUR-ORAI	2	0	1032	0.0	35.1	-35.1
7	765 kV	GWALIOR-ORAI	1	773	0	12.9	0.0	12.9
8	765 kV	SATNA-ORAI	1	0	1085	0.0	22.4	-22.4
9	765 kV	BANASKANTHA-CHITORGARH	2	995	395	5.4	1.1	4.2
10	765 kV	VINDHYACHAL-VARANASI	2	0	3431	0.0	64.4	-64.4
11	400 kV	ZERDA-KANKROLI	1	170	44	1.5	0.1	1.4
12	400 kV	ZERDA -BHINMAL	1	391	122	3.4	0.3	3.1
13	400 kV	VINDHYACHAL -RIHAND	1	968	0	21.7	0.0	21.7
14	400 kV	RAPP-SHUJALPUR	2	303	459	1.2	3.9	-2.7
15	220 kV	BHANPURA-RANPUR	1	0	0	0.0	0.0	0.0
16	220 kV	BHANPURA-MORAK	1	0	30	0.0	2.7	-2.7
17	220 kV	MEHGAON-AURAIYA	1	49	12	0.5	0.0	0.5
18	220 kV	MALANPUR-AURAIYA	1	34	22	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						53.8	277.5	-223.7
Import/Export of WR (With SR)								
1	HVDC	BHADRAWATI B/B	-	0	305	0.0	7.2	-7.2
2	HVDC	RAIGARH-PUGALUR	2	0	2003	0.0	27.5	-27.5
3	765 kV	SOLAPUR-RAICHUR	2	1888	1201	13.1	4.7	8.4
4	765 kV	WARDHA-NIZAMABAD	2	56	1756	0.0	21.1	-21.1
5	400 kV	KOLHAPUR-KUDGI	2	1410	0	25.1	0.0	25.1
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	126	2.5	0.0	2.5
WR-SR						40.6	60.5	-19.9

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)	-69	63	-2	-0.05	
	ER	400kV TALA-BINAGURI 1,2,4 (& 400kV MALBASE - BINAGURI) i.e. BINAGURI RECEIPT (from TALA HEP 6*170MW)	168	99	128	3.08	
	ER	220kV CHUKHA-BIRPARA 1&2 (& 220kV MALBASE - BIRPARA) i.e. BIRPARA RECEIPT (from CHUKHA HEP 4*84MW)	-114	-64	-90	-2.15	
	NER	132kV GELEPHU-SALAKATI	-12	0	-8	-0.19	
	NER	132kV MOTANGA-RANGIA	34	23	28	0.67	
NEPAL	NR	132kV MAHENDRANAGAR-TANAKPUR(NHPC)	-77	0	-65	-1.55	
	ER	NEPAL IMPORT (FROM BIHAR)	-200	-73	-164	-3.93	
	ER	400kV DHALKEBAR-MUZAFFARPUR 1&2	-443	-278	-433	-10.40	
BANGLADESH	ER	BHERAMARA B/B HVDC (B'DESH)	-937	-685	-868	-20.84	
	ER (Isolated from Indian Grid)	400kV GODDA_TPS-RAHANPUR (B'DESH) D/C	-967	-351	-820	-19.67	
	NER	132kV COMILLA-SURAJMANI NAGAR 1&2	-162	0	-142	-3.40	