



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: 10th 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, 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 09.05.2023.

महोदय/Dear Sir,

आई०ई०जी०सी०-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 09-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 09th May 2023, is available at the NLDC website.

धन्यवाद,

Report for previous day

Date of Reporting: 10-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)	57155	60250	45070	26122	3058	191655
Peak Shortage (MW)	1205	0	258	838	47	2348
Energy Met (MU)	1275	1423	1030	591	57	4376
Hydro Gen (MU)	182	47	67	63	11	369
Wind Gen (MU)	18	60	37	-	-	114
Solar Gen (MU)*	144.91	66.89	119.00	5.38	1.26	337
Energy Shortage (MU)	7.05	0.00	0.00	6.10	1.47	14.62
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	57874	64677	48390	27163	3197	196276
Time Of Maximum Demand Met	22:39	15:36	12:43	23:25	18:56	15:20

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	0.035	0.00	0.35	5.62	5.97	76.26	17.76

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	8392	0	166.7	68.1	-0.7	74	0.00
	Haryana	8061	0	169.1	113.4	-1.3	203	0.00
	Rajasthan	14344	0	289.3	85.3	-1.6	304	0.50
	Delhi	4518	0	93.9	93.8	-2.5	115	0.00
	UP	20990	1010	419.5	166.5	0.2	539	5.35
	Uttarakhand	1959	0	42.4	27.5	0.8	209	0.49
	HP	1564	0	29.8	12.4	1.2	160	0.07
	J&K(UT) & Ladakh(UT)	2790	150	56.4	38.7	1.5	367	0.64
	Chandigarh	225	0	4.6	4.5	0.1	19	0.00
Railways NR ISTS	174	0	3.8	3.2	0.6	47	0.00	
WR	Chhattisgarh	4723	0	108.2	45.2	-1.5	152	0.00
	Gujarat	20321	0	440.5	196.7	-0.1	751	0.00
	MP	10987	0	240.7	121.9	-2.7	306	0.00
	Maharashtra	25524	0	559.4	204.6	1.1	939	0.00
	Goa	734	0	15.6	15.2	0.1	52	0.00
	DNHDDPDCL	1258	0	29.1	29.4	-0.3	51	0.00
	AMNSIL	757	0	17.0	10.4	-0.4	189	0.00
	BALCO	519	0	12.4	12.3	0.1	58	0.00
	Andhra Pradesh	9754	0	209.0	59.1	2.9	876	2.74
SR	Telangana	8784	0	181.3	47.0	-0.2	511	0.00
	Karnataka	11679	0	216.9	83.4	-4.2	459	0.00
	Kerala	4372	0	92.5	65.2	-0.7	124	0.00
	Tamil Nadu	15176	0	320.1	180.3	-2.4	555	0.00
	Puducherry	447	0	9.8	9.3	-0.2	38	0.00
	Bihar	6421	408	128.4	117.1	-0.1	379	2.57
ER	DVC	3554	0	77.6	-51.2	-0.3	338	0.00
	Jharkhand	1642	0	34.5	27.8	-1.9	167	3.53
	Odisha	6131	0	123.8	42.7	-1.3	423	0.00
	West Bengal	10834	0	225.3	89.5	-2.7	260	0.00
	Sikkim	100	0	1.5	1.3	0.3	58	0.00
	Railways ER ISTS	8	0	0.1	0.2	-0.1	0	0.00
NER	Arunachal Pradesh	149	0	2.4	2.3	0.0	51	0.00
	Assam	1983	0	36.4	29.6	0.7	141	0.06
	Manipur	181	0	2.5	2.3	0.2	31	0.00
	Meghalaya	328	71	4.8	3.6	-0.2	65	1.41
	Mizoram	115	0	2.0	1.8	-0.1	19	0.00
	Nagaland	151	0	2.5	2.5	-0.1	16	0.00
Tripura	346	0	6.6	6.1	0.9	77	0.00	

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

	Bhutan	Nepal	Bangladesh	Godda -> Bangladesh
Actual (MU)	4.4	-13.4	-25.6	-16.3
Day Peak (MW)	400.0	-659.5	-1109.0	-762.5

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	208.6	-228.3	85.8	-72.1	6.0	0.0
Actual(MU)	206.4	-226.9	86.5	-76.5	7.6	-3.0
O/D/U/D(MU)	-2.2	1.4	0.8	-4.5	1.6	-3.0

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL	% Share
Central Sector	6027	8204	6458	1590	460	22739	52
State Sector	6005	9632	3591	1530	262	21020	48
Total	12032	17836	10049	3120	722	43758	100

G. Sourcewise generation (Gross) (MU)

	NR	WR	SR	ER	NER	All India	% Share
Coal	736	1520	656	689	15	3617	76
Lignite	18	21	49	0	0	87	2
Hydro	182	47	67	63	11	369	8
Nuclear	28	36	52	0	0	116	2
Gas, Naptha & Diesel	10	26	7	0	30	72	2
RES (Wind, Solar, Biomass & Others)	177	128	184	5	1	495	10
Total	1150	1777	1014	757	57	4756	100

Share of RES in total generation (%)	15.36	7.18	18.12	0.72	2.20	10.40
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	33.59	11.86	29.84	8.99	21.25	20.61

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.025
Based on State Max Demands	1.069

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

	Max Demand Met(MW)	Time	Shortage(MW)
Solar hr	196276	15:20	211
Non-Solar hr	194003	22:28	2559

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: 10-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	2.5	-2.5
3	765 kV	GAYA-VARANASI	2	233	578	0.0	4.0	-4.0
4	765 kV	SASARAM-FATEHPUR	1	63	341	0.0	3.5	-3.5
5	765 kV	GAYA-BALIA	1	0	644	0.0	11.6	-11.6
6	400 kV	PUSAULI-VARANASI	1	0	128	0.0	2.3	-2.3
7	400 kV	PUSAULI-ALLAHABAD	1	21	54	0.0	0.2	-0.2
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	111	528	0.0	4.9	-4.9
9	400 kV	PATNA-BALIA	2	0	425	0.0	5.9	-5.9
10	400 kV	NAUBATPUR-BALIA	2	0	436	0.0	5.6	-5.6
11	400 kV	BIHARSHARIFF-BALIA	2	227	207	0.2	0.0	0.2
12	400 kV	MOTIHARI-GORAKHPUR	2	0	429	0.0	5.4	-5.4
13	400 kV	BIHARSHARIFF-VARANASI	2	167	225	0.0	0.8	-0.8
14	220 kV	SAHUPURI-KARAMNUSA	1	0	181	0.0	3.1	-3.1
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	15	0.0	0.0	0.0
18	132 kV	KARMANASA-CHANDAULI	1	0	0	0.0	0.0	0.0
ER-NR						0.3	49.8	-49.5
Import/Export of ER (With WR)								
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	856	153	7.2	0.0	7.2
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	1368	0	23.1	0.0	23.1
3	765 kV	JHARSUGUDA-DURG	2	0	425	0.0	7.0	-7.0
4	400 kV	JHARSUGUDA-RAIGARH	4	0	501	0.0	5.3	-5.3
5	400 kV	RANCHI-SIPAT	2	270	13	3.7	0.0	3.7
6	220 kV	BUDHIPADAR-RAIGARH	1	0	44	0.0	1.0	-1.0
7	220 kV	BUDHIPADAR-KORBA	2	104	0	1.5	0.0	1.5
ER-WR						35.5	13.2	22.2
Import/Export of ER (With SR)								
1	HVDC	JEYPORE-GAZUWAKA B/B	2	0	549	0.0	12.6	-12.6
2	HVDC	TALCHER-KOLAR BIPOLE	2	0	1641	0.0	36.9	-36.9
3	765 kV	ANGUL-SRIKAKULAM	2	0	2827	0.0	49.5	-49.5
4	400 kV	TALCHER-I/C	2	655	0	7.3	0.0	7.3
5	220 kV	BALIMELA-UPPER-SILERRU	1	0	0	0.0	0.0	0.0
ER-SR						0.0	98.9	-98.9
Import/Export of ER (With NER)								
1	400 kV	BINAGURI-BONGAIGAON	2	119	98	0.8	0.5	0.3
2	400 kV	ALIPURDUAR-BONGAIGAON	2	375	233	2.5	0.0	2.5
3	220 kV	ALIPURDUAR-SALAKATI	2	78	25	0.7	0.0	0.7
ER-NER						4.0	0.5	3.5
Import/Export of NER (With NR)								
1	HVDC	BISWANATH CHARIALI-AGRA	2	482	0	10.4	0.0	10.4
NER-NR						10.4	0.0	10.4
Import/Export of WR (With NR)								
1	HVDC	CHAMPA-KURUKSHETRA	2	0	2016	0.0	48.1	-48.1
2	HVDC	VINDHYACHAL B/B	-	244	153	5.1	0.5	4.6
3	HVDC	MUNDRA-MOHINDERGARH	2	0	300	0.0	7.4	-7.4
4	765 kV	GWALIOR-AGRA	2	0	2087	0.0	37.5	-37.5
5	765 kV	GWALIOR-PHAGI	2	0	1411	0.0	20.4	-20.4
6	765 kV	JABALPUR-ORAI	2	0	943	0.0	32.4	-32.4
7	765 kV	GWALIOR-ORAI	1	698	0	12.4	0.0	12.4
8	765 kV	SATNA-ORAI	1	0	1021	0.0	21.5	-21.5
9	765 kV	BANASKANTHA-CHITORGARH	2	1438	295	13.7	0.7	13.0
10	765 kV	VINDHYACHAL-VARANASI	2	0	2956	0.0	56.3	-56.3
11	400 kV	ZERDA-KANKROLI	1	250	56	2.6	0.1	2.6
12	400 kV	ZERDA-BHINMAL	1	478	211	4.0	0.8	3.2
13	400 kV	VINDHYACHAL-RIHAND	1	958	0	21.5	0.0	21.5
14	400 kV	RAPP-SHUJALPUR	2	233	446	1.2	4.3	-3.0
15	220 kV	BHANPURA-RANPUR	1	0	0	0.0	0.0	0.0
16	220 kV	BHANPURA-MORAK	1	0	30	0.0	2.4	-2.4
17	220 kV	MEHGAON-AURAIYA	1	51	4	0.4	0.0	0.4
18	220 kV	MALANPUR-AURAIYA	1	35	14	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						61.2	232.2	-171.0
Import/Export of WR (With SR)								
1	HVDC	BHADRAWATI B/B	-	300	305	1.7	5.5	-3.8
2	HVDC	RAIGARH-PUGALUR	2	0	2505	0.0	40.1	-40.1
3	765 kV	SOLAPUR-RAICHUR	2	1334	1274	11.0	5.7	5.4
4	765 kV	WARDHA-NIZAMABAD	2	0	1947	0.0	21.7	-21.7
5	400 kV	KOLHAPUR-KUDGI	2	1401	0	24.5	0.0	24.5
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	127	2.2	0.0	2.2
WR-SR						39.5	73.0	-33.5

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)	240	-34	62	1.48
	ER	400kV TALA-BINAGURI 1,2,4 (& 400kV MALBASE - BINAGURI) i.e. BINAGURI RECEIPT (from TALA HEP 6*170MW)	217	145	181	4.34
	ER	220kV CHUKHA-BIRPARA 1&2 (& 220kV MALBASE - BIRPARA) i.e. BIRPARA RECEIPT (from CHUKHA HEP 4*84MW)	-127	-7	-82	-1.97
	NER	132kV GELEPHU-SALAKATI	-14	0	-6	-0.14
	NER	132kV MOTANGA-RANGIA	35	16	27	0.65
NEPAL	NR	132kV MAHENDRANAGAR-TANAKPUR(NHPC)	-73	0	-67	-1.60
	ER	NEPAL IMPORT (FROM BIHAR)	-156	-44	-103	-2.47
	ER	400kV DHALKEBAR-MUZAFFARPUR 1&2	-431	-257	-390	-9.36
BANGLADESH	ER	BHERAMARA B/B HVDC (B'DESH)	-931	-827	-906	-21.75
	ER (Isolated from Indian Grid)	400kV GODDA_TPS-RAHANPUR (B'DESH) D/C	-763	506	-678	-16.27
	NER	132kV COMILLA-SURAJMANI NAGAR 1&2	-178	0	-159	-3.82