



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: 24th 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 23.05.2023.

महोदय/Dear Sir,

आई०ई०जी०सी०-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 23-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 23rd May 2023, is available at the NLDC website.

धन्यवाद,

Report for previous day

Date of Reporting: 24-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)	63301	63142	48358	21965	2554	199320
Peak Shortage (MW)	82	0	0	116	13	211
Energy Met (MU)	1559	1498	1158	533	52	4799
Hydro Gen (MU)	277	46	61	55	12	451
Wind Gen (MU)	44	156	51	-	-	250
Solar Gen (MU)*	133.91	64.58	125.83	4.87	1.07	330
Energy Shortage (MU)	1.79	0.65	0.00	5.11	1.01	8.56
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	72920	69633	54954	26075	2633	221347
Time Of Maximum Demand Met	14:47	15:31	14:33	00:00	18:45	14:50

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	0.058	0.00	0.08	1.69	1.77	59.28	38.95

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	11987	0	233.4	120.5	0.0	320	0.00
	Haryana	9975	0	205.4	147.1	-3.2	300	0.92
	Rajasthan	16355	0	330.9	93.8	-1.0	374	0.34
	Delhi	6785	0	135.0	121.8	-2.6	108	0.00
	UP	24505	0	507.1	224.5	-1.6	450	0.00
	Uttarakhand	2415	0	48.0	27.0	-3.3	241	0.08
	HP	1556	0	31.4	1.8	0.1	120	0.03
	J&K(UT) & Ladakh(UT)	2857	70	57.0	31.1	0.1	164	0.42
	Chandigarh	359	0	6.9	6.9	0.0	40	0.00
Railways_NR ISTS	180	0	3.9	3.2	0.7	44	0.00	
WR	Chhattisgarh	4833	0	109.0	56.8	-0.4	244	0.00
	Gujarat	21207	0	453.7	186.3	-1.1	668	0.00
	MP	12187	0	266.8	154.1	-2.4	427	0.00
	Maharashtra	27607	0	594.7	216.2	0.5	850	0.65
	Goa	728	0	14.8	14.6	0.0	101	0.00
	DNHDDPDCL	1247	0	29.1	29.4	-0.3	83	0.00
	AMNSIL	791	0	17.3	10.8	-0.4	240	0.00
	BALCO	518	0	12.4	12.4	0.0	9	0.00
SR	Andhra Pradesh	11436	0	233.3	88.9	1.0	691	0.00
	Telangana	9479	0	193.3	58.6	-0.3	380	0.00
	Karnataka	12556	0	246.1	68.2	0.5	699	0.00
	Kerala	4617	0	91.5	64.3	0.6	273	0.00
	Tamil Nadu	17656	0	382.9	233.3	-0.9	413	0.00
	Puducherry	474	0	10.7	10.1	-0.2	38	0.00
ER	Bihar	6486	0	106.8	102.8	-5.0	300	0.20
	DVC	3428	0	74.9	-37.1	2.3	485	0.00
	Jharkhand	1818	0	34.0	27.3	-1.1	270	4.91
	Odisha	6313	0	120.1	51.2	0.2	587	0.00
	West Bengal	10416	0	195.2	75.1	-4.8	847	0.00
	Sikkim	97	0	1.5	1.2	0.3	63	0.00
	Railways_ER ISTS	8	0	0.1	0.3	-0.2	0	0.00
NER	Arunachal Pradesh	159	0	2.6	2.6	-0.1	40	0.00
	Assam	1631	0	34.0	27.8	0.2	130	0.00
	Manipur	166	0	2.5	2.4	0.1	29	0.00
	Meghalaya	274	13	4.6	2.5	-0.2	30	1.01
	Mizoram	110	0	1.9	1.8	-0.1	18	0.00
	Nagaland	150	0	2.5	2.4	0.0	13	0.00
	Tripura	269	0	4.3	5.3	-0.1	50	0.00

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

	Bhutan	Nepal	Bangladesh	Godda -> Bangladesh
Actual (MU)	2.1	-6.6	-23.3	-13.4
Day Peak (MW)	257.6	-406.0	-1098.0	-761.9

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	284.0	-305.3	131.3	-111.5	1.5	0.0
Actual(MU)	265.1	-306.4	152.2	-123.1	3.4	-8.9
O/D/U/D(MU)	-18.9	-1.1	20.9	-11.6	1.9	-8.9

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL	% Share
Central Sector	2175	5117	6288	480	434	14494	38
State Sector	5255	12650	2408	2990	363	23666	62
Total	7430	17767	8696	3470	797	38159	100

G. Sourcewise generation (Gross) (MU)

	NR	WR	SR	ER	NER	All India	% Share
Coal	834	1569	729	679	16	3826	74
Lignite	17	19	41	0	0	78	1
Hydro	277	46	61	55	12	451	9
Nuclear	29	38	46	0	0	113	2
Gas, Naptha & Diesel	41	41	6	0	28	116	2
RES (Wind, Solar, Biomass & Others)	187	221	199	5	1	613	12
Total	1385	1934	1082	739	56	5196	100

Share of RES in total generation (%)	13.49	11.43	18.39	0.66	1.91	11.79
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	35.61	15.76	28.25	8.16	22.72	22.65

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.021
Based on State Max Demands	1.055

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

	Max Demand Met(MW)	Time	Shortage(MW)
Solar hr	221347	14:50	44
Non-Solar hr	207183	22:36	28

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: 24-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	150	609	0.0	4.8	-4.8
4	765 kV	SASARAM-FATEHPUR	1	0	406	0.0	2.9	-2.9
5	765 kV	GAYA-BALIA	1	0	677	0.0	12.2	-12.2
6	400 kV	PUSAULI-VARANASI	1	7	93	0.0	1.3	-1.3
7	400 kV	PUSAULI -ALLAHABAD	1	0	117	0.0	1.3	-1.3
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	0	865	0.0	10.5	-10.5
9	400 kV	PATNA-BALIA	2	0	653	0.0	12.5	-12.5
10	400 kV	NAUBATPUR-BALIA	2	0	685	0.0	13.1	-13.1
11	400 kV	BIHARSHARIFF-BALIA	2	0	430	0.0	6.2	-6.2
12	400 kV	MOTIHARI-GORAKHPUR	2	0	506	0.0	8.4	-8.4
13	400 kV	BIHARSHARIFF-VARANASI	2	78	336	0.0	3.4	-3.4
14	220 kV	SAHUPURI-KARAMNANA	1	0	213	0.0	3.8	-3.8
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	64	0.0	0.0	0.0
18	132 kV	KARMANASA-CHANDAULI	1	0	0	0.0	0.0	0.0
ER-NR						0.4	82.9	-82.5
Import/Export of ER (With WR)								
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	1088	0	13.1	0.0	13.1
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	1398	687	12.2	0.0	12.2
3	765 kV	JHARSUGUDA-DURG	2	0	428	0.0	6.6	-6.6
4	400 kV	JHARSUGUDA-RAIGARH	4	0	465	0.0	5.1	-5.1
5	400 kV	RANCHI-SIPAT	2	305	214	1.5	0.0	1.5
6	220 kV	BUDHIPADAR-RAIGARH	1	0	44	0.0	1.5	-1.5
7	220 kV	BUDHIPADAR-KORBA	2	119	0	2.1	0.0	2.1
ER-WR						28.9	13.2	15.7
Import/Export of ER (With SR)								
1	HVDC	JEYPORE-GAZUWAKA B/B	2	0	546	0.0	12.5	-12.5
2	HVDC	TALCHER-KOLAR BIPOLE	2	0	1672	0.0	39.6	-39.6
3	765 kV	ANGUL-SRIKAKULAM	2	0	3402	0.0	57.0	-57.0
4	400 kV	TALCHER-I/C	2	264	0	5.0	0.0	5.0
5	220 kV	BALIMELA-UPPER-SILERRU	1	0	0	0.0	0.0	0.0
ER-SR						0.0	109.1	-109.1
Import/Export of ER (With NER)								
1	400 kV	BINAGURI-BONGAIGAON	2	180	108	1.2	0.1	1.1
2	400 kV	ALIPURDUAR-BONGAIGAON	2	383	107	4.0	0.0	4.0
3	220 kV	ALIPURDUAR-SALAKATI	2	85	0	1.3	0.0	1.3
ER-NER						6.4	0.1	6.3
Import/Export of NER (With NR)								
1	HVDC	BISWANATH CHARIALI-AGRA	2	477	0	9.5	0.0	9.5
NER-NR						9.5	0.0	9.5
Import/Export of WR (With NR)								
1	HVDC	CHAMPA-KURUKSHETRA	2	0	4014	0.0	91.7	-91.7
2	HVDC	VINDHYACHAL B/B	-	453	0	12.2	0.0	12.2
3	HVDC	MUNDRA-MOHINDERGARH	2	0	301	0.0	7.4	-7.4
4	765 kV	GWALIOR-AGRA	2	0	1974	0.0	32.2	-32.2
5	765 kV	GWALIOR-PHAGI	2	175	1151	0.0	13.5	-13.5
6	765 kV	JABALPUR-ORAI	2	0	903	0.0	27.6	-27.6
7	765 kV	GWALIOR-ORAI	1	579	0	10.2	0.0	10.2
8	765 kV	SATNA-ORAI	1	0	996	0.0	21.3	-21.3
9	765 kV	BANASKANTHA-CHITORGARH	2	933	275	4.5	0.0	4.5
10	765 kV	VINDHYACHAL-VARANASI	2	0	3260	0.0	57.1	-57.1
11	400 kV	ZERDA-KANKROLI	1	159	58	0.3	0.0	0.3
12	400 kV	ZERDA -BHINMAL	1	464	211	2.1	0.0	2.1
13	400 kV	VINDHYACHAL -RIHAND	1	949	0	21.5	0.0	21.5
14	400 kV	RAPP-SHUJALPUR	2	378	314	2.9	2.0	0.9
15	220 kV	BHANPURA-RANPUR	1	0	0	0.0	0.0	0.0
16	220 kV	BHANPURA-MORAK	1	0	30	0.0	2.4	-2.4
17	220 kV	MEHGAON-AURAIYA	1	71	0	1.0	0.0	1.0
18	220 kV	MALANPUR-AURAIYA	1	58	0	0.8	0.0	0.8
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	255.2	-199.6
Import/Export of WR (With SR)								
1	HVDC	BHADRAWATI B/B	-	0	509	0.0	12.0	-12.0
2	HVDC	RAIGARH-PUGALUR	2	0	3001	0.0	48.6	-48.6
3	765 kV	SOLAPUR-RAICHUR	2	630	2318	0.0	15.7	-15.7
4	765 kV	WARDHA-NIZAMABAD	2	0	2707	0.0	35.9	-35.9
5	400 kV	KOLHAPUR-KUDGI	2	1236	0	21.3	0.0	21.3
6	220 kV	KOLHAPUR-CHIKODI	2	0	0	0.0	0.0	0.0
7	220 kV	PONDA-AMBEWADI	1	2	1	0.0	0.0	0.0
8	220 kV	XELDEM-AMBEWADI	1	1	124	0.8	0.0	0.8
WR-SR						22.1	112.1	-90.0

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)	141	-10	65	1.56
	ER	400kV TALA-BINAGURI 1,2,4 (& 400kV MALBASE - BINAGURI) i.e. BINAGURI RECEIPT (from TALA HEP 6*170MW)	275	78	198	4.75
	ER	220kV CHUKHA-BIRPARA 1&2 (& 220kV MALBASE - BIRPARA) i.e. BIRPARA RECEIPT (from CHUKHA HEP 4*84MW)	-307	-85	-196	-4.71
	NER	132kV GELEPHU-SALAKATI	-16	-2	-7	-0.18
	NER	132kV MOTANGA-RANGIA	38	18	30	0.72
NEPAL	NR	132kV MAHENDRANAGAR-TANAKPUR(NHPC)	-72	0	-53	-1.28
	ER	NEPAL IMPORT (FROM BIHAR)	-54	0	-29	-0.70
	ER	400kV DHALKEBAR-MUZAFFARPUR 1&2	-280	-15	-195	-4.67
BANGLADESH	ER	BHERAMARA B/B HVDC (B'DESH)	-934	-263	-843	-20.22
	ER (Isolated from Indian Grid)	400kV GODDA_TPS-RAHANPUR (B'DESH) D/C	-762	-370	-560	-13.43
	NER	132kV COMILLA-SURAJMANI NAGAR 1&2	-164	0	-129	-3.10