



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: 20th 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 19.05.2023.

महोदय/Dear Sir,

आई०ई०जी०सी०-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 19-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 19th May 2023, is available at the NLDC website.

धन्यवाद,

Report for previous day

Date of Reporting: 20-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)	64117	61433	50219	22255	2808	200832
Peak Shortage (MW)	232	0	0	403	17	652
Energy Met (MU)	1429	1491	1239	544	51	4753
Hydro Gen (MU)	217	51	80	53	14	414
Wind Gen (MU)	13	102	74	-	-	189
Solar Gen (MU)*	139.18	65.61	122.30	2.70	0.88	331
Energy Shortage (MU)	8.55	0.49	0.00	2.43	1.43	12.90
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	64614	68809	59107	25620	2941	218030
Time Of Maximum Demand Met	22:48	14:55	12:31	15:01	18:47	14:55

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	0.051	0.00	0.19	5.42	5.60	68.24	26.15

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	8622	0	187.4	67.2	-0.3	174	0.00
	Haryana	8900	438	188.1	131.5	-0.8	211	1.71
	Rajasthan	15171	0	307.8	100.7	-3.0	287	2.81
	Delhi	5458	0	111.9	102.7	-3.5	82	0.00
	UP	24302	220	486.7	203.4	-0.6	417	3.89
	Uttarakhand	2226	0	47.9	27.2	1.2	152	0.13
	HP	1633	0	32.3	10.6	0.5	111	0.00
	J&K(UT) & Ladakh(UT)	2784	0	57.6	36.6	0.2	265	0.01
	Chandigarh	271	0	5.6	5.8	-0.2	15	0.00
Railways NR ISTS	179	0	3.8	3.2	0.7	54	0.00	
WR	Chhattisgarh	4747	0	106.0	51.2	-2.3	268	0.00
	Gujarat	20825	0	443.6	202.6	1.5	826	0.00
	MP	12286	0	271.7	152.2	-3.3	288	0.00
	Maharashtra	27399	0	593.5	204.8	-1.9	1027	0.49
	Goa	741	0	16.0	15.8	-0.2	77	0.00
	DNHDDPDCL	1239	0	28.9	29.1	-0.2	56	0.00
	AMNSIL	818	0	18.4	9.6	-0.2	260	0.00
BALCO	518	0	12.4	12.4	0.0	8	0.00	
SR	Andhra Pradesh	12616	0	247.9	97.6	0.0	785	0.00
	Telangana	9821	0	204.1	85.7	2.0	713	0.00
	Karnataka	15111	0	286.2	96.7	3.7	1215	0.00
	Kerala	4793	0	98.2	66.5	0.3	321	0.00
	Tamil Nadu	18222	0	391.3	225.3	-0.2	428	0.00
	Puducherry	493	0	11.0	10.6	0.2	64	0.00
ER	Bihar	5922	0	126.0	117.1	-2.6	252	1.02
	DVC	3500	0	78.5	-44.2	2.0	471	0.00
	Jharkhand	1728	25	35.3	28.9	-2.2	254	1.41
	Odisha	6529	0	125.6	59.8	-3.2	350	0.00
	West Bengal	9454	0	177.0	54.2	-2.6	407	0.00
	Sikkim	96	0	1.4	1.0	0.4	46	0.00
	Railways ER ISTS	8	0	0.2	0.2	0.0	0	0.00
NER	Arunachal Pradesh	161	0	2.7	2.9	-0.3	41	0.00
	Assam	1824	0	31.9	25.1	0.9	150	0.30
	Manipur	172	0	2.4	2.3	0.0	23	0.00
	Meghalaya	305	17	4.7	3.2	-0.1	53	1.13
	Mizoram	116	0	1.7	1.7	-0.2	18	0.00
	Nagaland	146	0	2.4	2.4	-0.1	11	0.00
	Tripura	287	0	4.8	4.5	0.2	60	0.00

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

	Bhutan	Nepal	Bangladesh	Godda -> Bangladesh
Actual (MU)	3.0	-6.3	-24.7	-9.5
Day Peak (MW)	513.1	-380.6	-1081.0	-477.3

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	228.6	-284.4	161.2	-101.8	-3.5	0.0
Actual(MU)	209.7	-294.1	181.3	-98.7	-2.4	-4.1
O/D/U/D(MU)	-18.9	-9.6	20.2	3.1	1.2	-4.1

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL	% Share
Central Sector	2294	6387	5078	1140	455	15354	41
State Sector	6070	11240	2838	1910	287	22344	59
Total	8364	17627	7916	3050	742	37698	100

G. Sourcewise generation (Gross) (MU)

	NR	WR	SR	ER	NER	All India	% Share
Coal	849	1598	727	674	16	3865	75
Lignite	21	19	53	0	0	94	2
Hydro	217	51	80	53	14	414	8
Nuclear	25	44	46	0	0	115	2
Gas, Naptha & Diesel	33	34	6	0	29	102	2
RES (Wind, Solar, Biomass & Others)	164	169	227	3	1	563	11
Total	1309	1915	1139	730	60	5153	100

Share of RES in total generation (%)	12.51	8.82	19.91	0.39	1.47	10.93
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	30.96	13.79	30.94	7.59	24.70	21.19

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	218030	14:55	38
Non-Solar hr	208826	22:44	1962

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: 20-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	87	557	0.0	6.9	-6.9
4	765 kV	SASARAM-FATEHPUR	1	0	340	0.0	5.1	-5.1
5	765 kV	GAYA-BALIA	1	0	801	0.0	13.4	-13.4
6	400 kV	PUSAULI-VARANASI	1	0	89	0.0	1.3	-1.3
7	400 kV	PUSAULI-ALLAHABAD	1	0	85	0.0	1.0	-1.0
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	0	867	0.0	11.5	-11.5
9	400 kV	PATNA-BALIA	2	0	652	0.0	10.5	-10.5
10	400 kV	NAUBATPUR-BALIA	2	0	688	0.0	10.7	-10.7
11	400 kV	BIHARSHARIFF-BALIA	2	4	524	0.0	6.1	-6.1
12	400 kV	MOTIHARI-GORAKHPUR	2	0	453	0.0	7.4	-7.4
13	400 kV	BIHARSHARIFF-VARANASI	2	35	304	0.0	3.6	-3.6
14	220 kV	SAHUPURI-KARAMNANA	1	0	197	0.0	3.1	-3.1
15	132 kV	NAGAR UNTARI-RIHAND	1	0	0	0.0	0.0	0.0
16	132 kV	GARWAH-RIHAND	1	25	0	0.5	0.0	0.5
17	132 kV	KARMANASA-SAHUPURI	1	0	63	0.0	0.0	0.0
18	132 kV	KARMANASA-CHANDALI	1	0	0	0.0	0.0	0.0
					ER-NR	0.5	83.1	-82.6
Import/Export of ER (With WR)								
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	1726	0	31.0	0.0	31.0
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	1113	0	15.1	0.0	15.1
3	765 kV	JHARSUGUDA-DURG	2	0	364	0.0	5.9	-5.9
4	400 kV	JHARSUGUDA-RAIGARH	4	0	474	0.0	7.1	-7.1
5	400 kV	RANCHI-SIPAT	2	210	51	2.2	0.0	2.2
6	220 kV	BUDHIPADAR-RAIGARH	1	0	65	0.0	1.0	-1.0
7	220 kV	BUDHIPADAR-KORBA	2	101	0	1.6	0.0	1.6
					ER-WR	49.9	14.0	35.9
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	1703	0.0	40.8	-40.8
3	765 kV	ANGUL-SRIKAKULAM	2	0	2898	0.0	59.7	-59.7
4	400 kV	TALCHER-I/C	2	207	0	3.0	0.0	3.0
5	220 kV	BALIMELA-UPPER-SILERRU	1	0	0	0.0	0.0	0.0
					ER-SR	0.0	113.0	-113.0
Import/Export of ER (With NER)								
1	400 kV	BINAGURI-BONGAIGAON	2	183	0	2.9	0.0	2.9
2	400 kV	ALIPURDUAR-BONGAIGAON	2	576	0	9.8	0.0	9.8
3	220 kV	ALIPURDUAR-SALAKATI	2	114	0	1.5	0.0	1.5
					ER-NER	14.2	0.0	14.2
Import/Export of NER (With NR)								
1	HVDC	BISWANATH CHARIALI-AGRA	2	483	0	11.5	0.0	11.5
					NER-NR	11.5	0.0	11.5
Import/Export of WR (With NR)								
1	HVDC	CHAMPA-KIRUKSHETRA	2	0	749	0.0	18.3	-18.3
2	HVDC	VINDHYACHAL B/B	-	451	0	12.2	0.0	12.2
3	HVDC	MUNDRA-MOHINDERGARH	2	0	788	0.0	19.4	-19.4
4	765 kV	GWALIOR-AGRA	2	0	2020	0.0	33.6	-33.6
5	765 kV	GWALIOR-PHAGI	2	0	1553	0.0	23.6	-23.6
6	765 kV	JABALPUR-ORAI	2	0	1027	0.0	36.3	-36.3
7	765 kV	GWALIOR-ORAI	1	738	0	14.0	0.0	14.0
8	765 kV	SATNA-ORAI	1	0	1001	0.0	21.0	-21.0
9	765 kV	BANASKANTHA-CHITORGARH	2	1783	320	15.5	0.6	15.0
10	765 kV	VINDHYACHAL-VARANASI	2	0	3021	0.0	56.4	-56.4
11	400 kV	ZERDA-KANKROLI	1	250	30	2.6	0.0	2.5
12	400 kV	ZERDA -BHINMAL	1	452	82	3.4	0.4	3.0
13	400 kV	VINDHYACHAL -RIHAND	1	957	0	21.6	0.0	21.6
14	400 kV	RAPP-SHUALPUR	2	277	359	1.4	3.7	-2.3
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	76	0	1.2	0.0	1.2
18	220 kV	MALANPUR-AURAIYA	1	59	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	72.6	215.5	-143.0
Import/Export of WR (With SR)								
1	HVDC	BHADRAWATI B/B	-	0	1009	0.0	16.7	-16.7
2	HVDC	RAIGARH-PUGALUR	2	0	4514	0.0	61.7	-61.7
3	765 kV	SOLAPUR-RAICHUR	2	577	1631	0.3	15.0	-14.6
4	765 kV	WARDHA-NIZAMABAD	2	0	2358	0.0	43.6	-43.6
5	400 kV	KOLHAPUR-KUDGI	2	1272	0	18.9	0.0	18.9
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	129	2.6	0.0	2.6
					WR-SR	21.9	136.9	-115.1

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)	274	-16	48	1.14	
	ER	400kV TALA-BINAGURI 1,2,4 (& 400kV MALBASE - BINAGURI) i.e. BINAGURI RECEIPT (from TALA HEP 6*170MW)	200	141	170	4.08	
	ER	220kV CHUKHA-BIRPARA 1&2 (& 220kV MALBASE - BIRPARA) i.e. BIRPARA RECEIPT (from CHUKHA HEP 4*84MW)	-147	-30	-116	-2.79	
	NER	132kV GELEPHU-SALAKATI	-18	-5	-12	-0.28	
	NER	132kV MOTANGA-RANGIA	50	20	34	0.81	
NEPAL	NR	132kV MAHENDRANAGAR-TANAKPUR(NHPC)	-75	0	-60	-1.45	
	ER	NEPAL IMPORT (FROM BIHAR)	-88	-12	-31	-0.74	
	ER	400kV DHALKEBAR-MUZAFFARPUR 1&2	-218	0	-171	-4.11	
BANGLADESH	ER	BHERAMARA B/B HVDC (B'DESH)	-929	-782	-905	-21.71	
	ER (Isolated from Indian Grid)	400kV GODDA_TPS-RAHANPUR (B'DESH) D/C	-477	-362	-395	-9.48	
	NER	132kV COMILLA-SURAJMANI NAGAR 1&2	-152	0	-126	-3.02	