



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: 02nd 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 01.05.2023.

महोदय/Dear Sir,

आईंईंजींसीं-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 01-मई -2023 की अखिल भारतीय प्रणाली की दैनिक ग्रीड निष्पादन रिपोर्ट रांभांप्रेंकें 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 01st May 2023, is available at the NLDC website.

धन्यवाद,

Report for previous day

Date of Reporting: 02-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)	42496	50421	39946	20660	2567	156090
Peak Shortage (MW)	0	0	0	0	53	53
Energy Met (MU)	979	1198	926	453	49	3605
Hydro Gen (MU)	181	18	51	55	15	319
Wind Gen (MU)	5	50	30	-	-	86
Solar Gen (MU)*	124.84	54.80	103.93	4.53	1.17	289
Energy Shortage (MU)	0.51	0.00	0.00	0.33	1.19	2.03
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	45847	52166	42168	21134	2644	159720
Time Of Maximum Demand Met	10:25	19:38	12:23	19:58	19:58	19:39

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	0.085	0.25	2.41	14.80	17.46	63.84	18.70

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	6610	0	142.2	76.4	-2.0	72	0.00
	Haryana	6199	0	129.6	96.6	-3.9	228	0.00
	Rajasthan	10758	0	211.0	57.1	-3.8	470	0.31
	Delhi	3607	0	76.6	76.0	-2.8	45	0.00
	UP	13967	0	293.1	121.4	-5.0	211	0.00
	Uttarakhand	1720	0	34.3	17.4	-0.8	125	0.20
	HP	1551	0	27.9	10.5	-0.3	54	0.00
	J&K(UT) & Ladakh(UT)	2791	0	56.4	40.9	-1.5	112	0.00
	Chandigarh	194	0	4.0	4.3	-0.3	22	0.00
Railways_NR ISTS	179	0	3.8	3.3	0.5	40	0.00	
WR	Chhattisgarh	4059	0	84.6	30.6	-3.1	419	0.00
	Gujarat	17386	0	386.8	201.8	-0.5	1060	0.00
	MP	8418	0	176.0	89.1	-1.4	285	0.00
	Maharashtra	20766	0	483.4	188.8	-1.2	708	0.00
	Goa	650	0	13.7	13.3	-0.2	51	0.00
	DNHDDPDCL	1152	0	25.0	25.0	0.0	103	0.00
	AMNSIL	758	0	16.4	10.9	0.6	314	0.00
	BALCO	513	0	12.3	12.4	-0.1	508	0.00
SR	Andhra Pradesh	8435	0	176.1	60.1	-3.2	638	0.00
	Telangana	6566	0	137.9	23.9	-0.8	820	0.00
	Karnataka	11346	0	223.7	88.2	-1.9	537	0.00
	Kerala	4073	0	82.0	66.0	-0.5	200	0.00
	Tamil Nadu	13897	0	298.3	182.3	-1.1	644	0.00
	Puducherry	369	0	7.9	8.7	-1.3	62	0.00
ER	Bihar	4983	0	95.6	91.2	-4.2	221	0.27
	DVC	3306	0	70.8	-34.8	0.8	306	0.00
	Jharkhand	1625	0	31.3	25.9	-3.3	135	0.06
	Odisha	5563	0	109.0	41.0	-3.6	313	0.00
	West Bengal	6487	0	144.7	21.4	-4.2	132	0.00
	Sikkim	73	0	1.0	1.5	-0.4	9	0.00
	Railways_ER ISTS	14	0	0.7	0.0	0.7	0	0.00
NER	Arunachal Pradesh	158	0	2.6	2.7	-0.2	40	0.00
	Assam	1531	0	27.8	20.5	0.1	135	0.00
	Manipur	192	0	2.7	2.6	0.1	25	0.00
	Meghalaya	310	53	5.4	4.2	0.0	48	1.19
	Mizoram	120	0	1.9	1.8	-0.2	7	0.00
	Nagaland	148	0	2.4	2.5	-0.1	19	0.00
	Tripura	321	0	5.8	5.2	0.4	47	0.00

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

	Bhutan	Nepal	Bangladesh	Godda -> Bangladesh
Actual (MU)	5.7	-6.6	-25.5	-9.7
Day Peak (MW)	612.0	-407.1	-1111.0	-432.4

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	167.1	-143.2	77.2	-99.4	-1.7	0.0
Actual(MU)	141.6	-126.3	93.8	-113.0	-0.4	-4.3
O/D/U/D(MU)	-25.5	17.0	16.5	-13.6	1.3	-4.3

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL	% Share
Central Sector	7857	10831	4458	2080	425	25651	43
State Sector	12640	14040	5304	1460	241	33684	57
Total	20497	24870	9762	3540	666	59335	100

G. Sourcewise generation (Gross) (MU)

	NR	WR	SR	ER	NER	All India	% Share
Coal	514	1245	575	592	11	2937	74
Lignite	24	22	43	0	0	89	2
Hydro	181	18	51	55	15	319	8
Nuclear	29	32	69	0	0	130	3
Gas, Naptha & Diesel	10	17	7	0	29	62	2
RES (Wind, Solar, Biomass & Others)	147	106	155	5	1	414	10
Total	904	1439	899	652	56	3950	100

Share of RES in total generation (%)	16.28	7.34	17.20	0.74	2.14	10.47
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	39.49	10.77	30.56	9.19	28.38	21.84

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.026
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	158988	10:20	86
Non-Solar hr	159720	19:39	78

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: 02-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	47	831	0.0	7.6	-7.6
4	765 kV	SASARAM-FATEHPUR	1	0	418	0.0	5.2	-5.2
5	765 kV	GAYA-BALIA	1	0	611	0.0	10.6	-10.6
6	400 kV	PUSAULI-VARANASI	1	25	54	0.0	0.5	-0.5
7	400 kV	PUSAULI -ALLAHABAD	1	0	134	0.0	1.9	-1.9
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	0	953	0.0	12.4	-12.4
9	400 kV	PATNA-BALIA	2	0	618	0.0	9.4	-9.4
10	400 kV	NAUBATPUR-BALIA	2	0	665	0.0	8.3	-8.3
11	400 kV	BIHARSHARIFF-BALIA	2	86	412	0.0	3.0	-3.0
12	400 kV	MOTTHARI-GORAKHPUR	2	0	552	0.0	8.2	-8.2
13	400 kV	BIHARSHARIFF-VARANASI	2	7	379	0.0	3.6	-3.6
14	220 kV	SAHUPURI-KARAMNANA	1	0	134	0.0	2.3	-2.3
15	132 kV	NAGAR UNTARI-RIHAND	1	0	0	0.1	0.0	0.1
16	132 kV	GARWAH-RIHAND	1	25	0	0.4	0.0	0.4
17	132 kV	KARMANASA-SAHUPURI	1	0	13	0.0	0.0	0.0
18	132 kV	KARMANASA-CHANDAULI	1	0	0	0.0	0.0	0.0
ER-NR						0.4	75.6	-75.1
Import/Export of ER (With WR)								
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	1009	263	10.5	0.0	10.5
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	796	535	4.3	0.0	4.3
3	765 kV	JHARSUGUDA-DURG	2	0	528	0.0	7.6	-7.6
4	400 kV	JHARSUGUDA-RAIGARH	4	0	504	0.0	7.0	-7.0
5	400 kV	RANCHI-SIPAT	2	208	149	1.3	0.0	1.3
6	220 kV	BUDHIPADAR-RAIGARH	1	0	56	0.0	1.4	-1.4
7	220 kV	BUDHIPADAR-KORBA	2	133	0	3.1	0.0	3.1
ER-WR						19.1	15.9	3.2
Import/Export of ER (With SR)								
1	HVDC	JEYPORE-GAZUWAKA B/B	2	0	642	0.0	12.6	-12.6
2	HVDC	TALCHER-KOLAR BIPOLE	2	0	1641	0.0	35.9	-35.9
3	765 kV	ANGUL-SRIKAKULAM	2	0	2916	0.0	42.3	-42.3
4	400 kV	TALCHER-I/C	2	415	630	0.5	0.0	0.5
5	220 kV	BALIMELA-UPPER-SILERRU	1	0	0	0.0	0.0	0.0
ER-SR						0.0	90.8	-90.8
Import/Export of ER (With NER)								
1	400 kV	BINAGURI-BONGAIGAON	2	185	18	2.0	0.0	2.0
2	400 kV	ALIPURDUAR-BONGAIGAON	2	608	40	7.6	0.0	7.6
3	220 kV	ALIPURDUAR-SALAKATI	2	122	0	1.7	0.0	1.7
ER-NER						11.3	0.0	11.3
Import/Export of NER (With NR)								
1	HVDC	BISWANATH CHARIALI-AGRA	2	478	0	9.8	0.0	9.8
NER-NR						9.8	0.0	9.8
Import/Export of WR (With NR)								
1	HVDC	CHAMPA-KURUKSHETRA	2	0	998	0.0	23.0	-23.0
2	HVDC	VINDHYACHAL B/B	-	445	0	12.2	0.0	12.2
3	HVDC	MUNDRA-MOHINDERGARH	2	0	304	7.2	0.0	7.2
4	765 kV	GWALIOR-AGRA	2	0	1968	0.0	38.2	-38.2
5	765 kV	GWALIOR-PHAGI	2	254	1534	0.4	18.9	-18.5
6	765 kV	JABALPUR-ORAI	2	0	699	0.0	19.2	-19.2
7	765 kV	GWALIOR-ORAI	1	836	0	14.8	0.0	14.8
8	765 kV	SATNA-ORAI	1	0	944	0.0	18.5	-18.5
9	765 kV	BANASKANTHA-CHITORGARH	2	1429	0	23.5	0.0	23.5
10	765 kV	VINDHYACHAL-VARANASI	2	0	2562	0.0	46.9	-46.9
11	400 kV	ZERDA-KANKROLI	1	272	0	4.7	0.0	4.7
12	400 kV	ZERDA -BHINMAL	1	495	0	6.3	0.0	6.3
13	400 kV	VINDHYACHAL -RIHAND	1	962	0	18.3	0.0	18.3
14	400 kV	RAPP-SHUJALPUR	2	276	257	1.6	2.3	-0.7
15	220 kV	BHANPURA-RANPUR	1	0	0	0.0	0.0	0.0
16	220 kV	BHANPURA-MORAK	1	0	30	0.0	1.6	-1.6
17	220 kV	MEHGAON-AURAIYA	1	41	16	0.3	0.0	0.3
18	220 kV	MALANPUR-AURAIYA	1	32	24	0.1	0.1	0.0
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						89.3	168.7	-79.4
Import/Export of WR (With SR)								
1	HVDC	BHADRAWATI B/B	-	299	1001	1.7	14.0	-12.3
2	HVDC	RAIGARH-PUGALUR	2	0	4005	0.0	41.4	-41.4
3	765 kV	SOLAPUR-RAICHUR	2	1822	1372	8.9	3.5	5.4
4	765 kV	WARDHA-NIZAMABAD	2	677	2162	1.0	17.9	-16.8
5	400 kV	KOLHAPUR-KUDGI	2	1310	0	20.8	0.0	20.8
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	1	126	2.5	0.0	2.5
WR-SR						34.8	76.7	-41.9

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)	187	-56	106	2.55	
	ER	400kV TALA-BINAGURI 1,2,4 (& 400kV MALBASE - BINAGURI) i.e. BINAGURI RECEIPT (from TALA HEP 6*170MW)	545	245	298	7.15	
	ER	220kV CHUKHA-BIRPARA 1&2 (& 220kV MALBASE - BIRPARA) i.e. BIRPARA RECEIPT (from CHUKHA HEP 4*84MW)	-244	-127	-181	-4.34	
	NER	132kV GELEPHU-SALAKATI	-18	0	-5	-0.13	
	NER	132kV MOTANGA-RANGIA	38	0	21	0.50	
NEPAL	NR	132kV MAHENDRANAGAR-TANAKPUR(NHPC)	-69	0	-55	-1.33	
	ER	NEPAL IMPORT (FROM BIHAR)	-91	-7	-49	-1.18	
	ER	400kV DHALKEBAR-MUZAFFARPUR 1&2	-247	-45	-170	-4.07	
BANGLADESH	ER	BHERAMARA B/B HVDC (B'DESH)	-944	-923	-931	-22.35	
	ER (Isolated from Indian Grid)	400kV GODDA_TPS-RAHANPUR (B'DESH) D/C	-432	-372	-402	-9.65	
	NER	132kV COMILLA-SURAJMANI NAGAR 1&2	-167	0	-133	-3.18	