



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: 06th 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 05.05.2023.

महोदय/Dear Sir,

आई०ई०जी०सी०-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 05-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 05th May 2023, is available at the NLDC website.

धन्यवाद,

Report for previous day

Date of Reporting: 06-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)	52753	56530	44854	24432	2681	181273
Peak Shortage (MW)	0	0	0	450	213	663
Energy Met (MU)	1113	1293	1032	514	51	4003
Hydro Gen (MU)	207	30	78	48	11	374
Wind Gen (MU)	17	56	35	-	-	108
Solar Gen (MU)*	139.46	60.11	92.94	2.74	1.03	296
Energy Shortage (MU)	1.07	0.00	0.00	2.50	1.53	5.10
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	53612	59283	48257	24480	2854	184356
Time Of Maximum Demand Met	19:48	15:18	11:43	20:00	19:14	19:43

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	0.049	0.00	0.59	9.32	9.91	72.75	17.35

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	7142	0	148.7	70.6	0.1	286	0.00
	Haryana	6852	0	146.1	101.8	-0.6	126	0.00
	Rajasthan	12915	0	252.1	73.3	-3.2	297	0.00
	Delhi	3940	0	79.0	78.8	-1.7	139	0.00
	UP	19254	220	352.8	139.0	-0.3	332	1.03
	Uttarakhand	1909	0	40.6	21.2	0.3	114	0.04
	HP	1602	2	29.7	10.4	-0.2	85	0.00
	J&K(UT) & Ladakh(UT)	2728	0	56.5	39.2	0.1	129	0.00
	Chandigarh	197	0	3.8	3.7	0.1	31	0.00
Railways NR ISTS	183	0	3.9	3.2	0.7	43	0.00	
WR	Chhattisgarh	4499	0	99.3	38.1	-1.6	196	0.00
	Gujarat	19013	0	409.5	206.8	1.6	873	0.00
	MP	9382	0	202.0	113.0	-2.7	342	0.00
	Maharashtra	23971	0	507.1	212.7	-1.4	733	0.00
	Goa	704	0	15.2	15.0	-0.2	45	0.00
	DNHDDPDCL	1245	0	29.3	29.5	-0.2	43	0.00
	AMNSIL	781	0	17.7	8.2	0.2	329	0.00
	BALCO	520	0	12.4	12.5	-0.1	11	0.00
SR	Andhra Pradesh	8846	0	193.2	52.6	1.0	682	0.00
	Telangana	8271	0	171.5	60.8	1.3	647	0.00
	Karnataka	13178	0	253.1	101.8	0.3	794	0.00
	Kerala	4351	0	90.7	65.7	-0.3	159	0.00
	Tamil Nadu	14562	0	314.9	192.8	-2.9	348	0.00
	Puducherry	394	0	9.1	9.0	-0.6	38	0.00
ER	Bihar	5966	0	111.9	106.9	-1.2	158	0.27
	DVC	3596	0	78.0	-44.1	1.5	297	0.00
	Jharkhand	1520	138	31.5	25.6	-2.4	179	2.23
	Odisha	5682	0	111.8	35.8	-1.1	440	0.00
	West Bengal	8633	0	178.8	40.9	-1.7	191	0.00
	Sikkim	104	0	1.6	1.3	0.4	19	0.00
	Railways ER ISTS	1	0	0.1	0.2	-0.1	0	0.00
NER	Arunachal Pradesh	154	0	2.5	2.4	0.1	78	0.00
	Assam	1790	0	32.0	25.9	-0.2	126	0.32
	Manipur	166	0	2.2	2.4	-0.1	10	0.00
	Meghalaya	321	49	5.1	4.1	-0.1	58	1.21
	Mizoram	112	0	1.9	1.8	-0.2	10	0.00
	Nagaland	148	0	2.4	2.4	-0.1	26	0.00
	Tripura	305	0	5.2	4.7	0.4	52	0.00

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

	Bhutan	Nepal	Bangladesh	Godda -> Bangladesh
Actual (MU)	1.7	-9.7	-25.7	-4.7
Day Peak (MW)	228.0	-468.0	-1128.0	-229.4

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	160.7	-154.2	106.3	-116.0	3.2	0.0
Actual(MU)	147.0	-147.7	119.0	-128.3	5.4	-4.7
O/D/U/D(MU)	-13.7	6.5	12.7	-12.3	2.1	-4.7

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL	% Share
Central Sector	8047	11500	5458	1480	460	26945	46
State Sector	9975	14885	5281	1440	285	31865	54
Total	18022	26385	10739	2920	745	58810	100

G. Sourcewise generation (Gross) (MU)

	NR	WR	SR	ER	NER	All India	% Share
Coal	597	1315	641	671	15	3239	75
Lignite	22	19	52	0	0	92	2
Hydro	207	30	78	48	11	374	9
Nuclear	29	36	56	0	0	122	3
Gas, Naptha & Diesel	8	28	7	0	27	70	2
RES (Wind, Solar, Biomass & Others)	170	117	155	3	1	447	10
Total	1034	1545	989	722	54	4343	100

Share of RES in total generation (%)	16.49	7.56	15.70	0.42	1.91	10.28
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	39.39	11.86	29.29	7.01	22.33	21.71

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.022
Based on State Max Demands	1.057

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

	Max Demand Met(MW)	Time	Shortage(MW)
Solar hr	181102	11:52	222
Non-Solar hr	184356	19:43	496

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: 06-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	334	617	0.0	6.5	-6.5
4	765 kV	SASARAM-FATEHPUR	1	70	463	0.0	5.9	-5.9
5	765 kV	GAYA-BALIA	1	0	645	0.0	10.9	-10.9
6	400 kV	PUSAULI-VARANASI	1	0	85	0.0	1.0	-1.0
7	400 kV	PUSAULI-ALLAHABAD	1	0	85	0.0	1.3	-1.3
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	110	601	0.0	7.9	-7.9
9	400 kV	PATNA-BALIA	2	0	505	0.0	9.1	-9.1
10	400 kV	NAUBATPUR-BALIA	2	0	526	0.0	9.2	-9.2
11	400 kV	BIHARSHARIFF-BALIA	2	240	248	0.0	1.4	-1.4
12	400 kV	MOTIHARI-GORAKHPUR	2	0	534	0.0	8.9	-8.9
13	400 kV	BIHARSHARIFF-VARANASI	2	174	282	0.0	2.8	-2.8
14	220 kV	SAHUPURI-KARAMNANA	1	0	164	0.0	2.4	-2.4
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	0	0.0	0.0	0.0
18	132 kV	KARMANASA-CHANDAULI	1	0	0	0.0	0.0	0.0
ER-NR						0.4	69.7	-69.4
Import/Export of ER (With WR)								
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	414	263	2.5	0.0	2.5
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	843	326	6.9	0.0	6.9
3	765 kV	JHARSUGUDA-DURG	2	0	510	0.0	9.2	-9.2
4	400 kV	JHARSUGUDA-RAIGARH	4	8	363	0.0	5.4	-5.4
5	400 kV	RANCHI-SIPAT	2	290	129	1.2	0.0	1.2
6	220 kV	BUDHIPADAR-RAIGARH	1	0	83	0.0	1.1	-1.1
7	220 kV	BUDHIPADAR-KORBA	2	122	0	2.0	0.0	2.0
ER-WR						12.5	15.7	-3.2
Import/Export of ER (With SR)								
1	HVDC	JEYPORE-GAZUWAKA B/B	2	0	867	0.0	12.5	-12.5
2	HVDC	TALCHER-KOLAR BIPOLE	2	0	1643	0.0	39.6	-39.6
3	765 kV	ANGUL-SRIKAKULAM	2	0	2492	0.0	51.1	-51.1
4	400 kV	TALCHER-I/C	2	245	193	4.1	0.0	4.1
5	220 kV	BALIMELA-UPPER-SILERRU	1	0	0	0.0	0.0	0.0
ER-SR						0.0	103.2	-103.2
Import/Export of ER (With NER)								
1	400 kV	BINAGURI-BONGAIGAON	2	92	103	0.6	0.5	0.1
2	400 kV	ALIPURDUAR-BONGAIGAON	2	359	206	1.2	0.0	1.2
3	220 kV	ALIPURDUAR-SALAKATI	2	85	30	0.3	0.0	0.3
ER-NER						2.0	0.5	1.6
Import/Export of NER (With NR)								
1	HVDC	BISWANATH CHARIALI-AGRA	2	287	0	6.9	0.0	6.9
NER-NR						6.9	0.0	6.9
Import/Export of WR (With NR)								
1	HVDC	CHAMPA-KIRUKSHETRA	2	0	1001	0.0	23.2	-23.2
2	HVDC	VINDHYACHAL B/B	-	246	0	6.1	0.0	6.1
3	HVDC	MUNDRA-MOHINDERGARH	2	315	0	7.2	0.0	7.2
4	765 kV	GWALIOR-AGRA	2	0	1916	0.0	33.0	-33.0
5	765 kV	GWALIOR-PHAGI	2	126	1574	0.1	21.7	-21.6
6	765 kV	JABALPUR-ORAI	2	0	771	0.0	22.0	-22.0
7	765 kV	GWALIOR-ORAI	1	905	0	16.6	0.0	16.6
8	765 kV	SATNA-ORAI	1	0	859	0.0	18.0	-18.0
9	765 kV	BANASKANTHA-CHITORGARH	2	1762	111	20.9	0.1	20.8
10	765 kV	VINDHYACHAL-VARANASI	2	0	2647	0.0	51.9	-51.9
11	400 kV	ZERDA-KANKROLI	1	301	14	4.1	0.0	4.1
12	400 kV	ZERDA-BHINMAL	1	555	108	6.2	0.3	5.9
13	400 kV	VINDHYACHAL-RIHAND	1	966	0	22.0	0.0	22.0
14	400 kV	RAPP-SHUALPUR	2	329	371	1.8	2.7	-1.0
15	220 kV	BHANPURA-RANPUR	1	0	0	0.0	0.0	0.0
16	220 kV	BHANPURA-MORAK	1	0	30	0.0	2.0	-2.0
17	220 kV	MEHGAON-AURAIYA	1	46	1	0.4	0.0	0.4
18	220 kV	MALANPUR-AURAIYA	1	32	8	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						85.5	175.0	-89.4
Import/Export of WR (With SR)								
1	HVDC	BHADRAWATI B/B	-	0	304	0.0	7.2	-7.2
2	HVDC	RAIGARH-PUGALUR	2	0	2504	0.0	55.4	-55.4
3	765 kV	SOLAPUR-RAICHUR	2	921	708	4.2	2.6	1.6
4	765 kV	WARDHA-NIZAMABAD	2	0	1702	0.0	26.5	-26.5
5	400 kV	KOLHAPUR-KUDGI	2	1267	0	23.8	0.0	23.8
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	0	108	2.2	0.0	2.2
WR-SR						30.1	91.6	-61.5

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)	118	-45	33	0.79	
	ER	400kV TALA-BINAGURI 1,2,4 (& 400kV MALBASE - BINAGURI) i.e. BINAGURI RECEIPT (from TALA HEP 6*170MW)	267	84	149	3.59	
	ER	220kV CHUKHA-BIRPARA 1&2 (& 220kV MALBASE - BIRPARA) i.e. BIRPARA RECEIPT (from CHUKHA HEP 4*84MW)	-119	-67	-100	-2.41	
	NER	132kV GELEPHU-SALAKATI	18	0	5	0.12	
	NER	132kV MOTANGA-RANGIA	-37	-5	-18	-0.43	
NEPAL	NR	132kV MAHENDRANAGAR-TANAKPUR(NHPC)	-74	0	-59	-1.41	
	ER	NEPAL IMPORT (FROM BIHAR)	-16	0	-8	-0.19	
	ER	400kV DHALKEBAR-MUZAFFARPUR 1&2	-378	-227	-338	-8.11	
BANGLADESH	ER	BHERAMARA B/B HVDC (B'DESH)	-970	-921	-924	-22.17	
	ER (Isolated from Indian Grid)	400kV GODDA_TPS-RAHANPUR (B'DESH) D/C	-229	0	-197	-4.72	
	NER	132kV COMILLA-SURAJMANI NAGAR 1&2	-158	0	-146	-3.50	