



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: 07th 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 06.05.2023.

महोदय/Dear Sir,

आई०ई०जी०सी०-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 06-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 06th May 2023, is available at the NLDC website.

धन्यवाद,

Report for previous day

Date of Reporting: 07-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)	53244	57453	44136	24683	2895	182411
Peak Shortage (MW)	240	86	0	443	32	801
Energy Met (MU)	1156	1345	1020	535	53	4109
Hydro Gen (MU)	196	40	66	46	13	360
Wind Gen (MU)	16	59	46	-	-	120
Solar Gen (MU)*	131.99	60.25	114.08	2.88	1.14	310
Energy Shortage (MU)	0.93	0.63	0.00	2.95	1.21	5.72
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	53891	60710	47187	25193	2981	185602
Time Of Maximum Demand Met	19:48	15:36	11:59	23:26	18:46	19:46

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	0.053	0.37	1.35	7.79	9.51	71.95	18.54

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	7488	0	158.0	74.4	-0.9	206	0.00
	Haryana	6946	0	150.0	104.7	-1.4	162	0.00
	Rajasthan	13531	0	263.9	76.7	-5.3	315	0.00
	Delhi	3826	0	81.3	81.0	-2.4	32	0.00
	UP	20032	0	371.7	139.0	-1.8	328	0.75
	Uttarakhand	1966	0	41.2	22.7	0.2	240	0.00
	HP	1555	0	29.9	10.9	0.3	73	0.00
	J&K(UT) & Ladakh(UT)	2647	100	52.3	38.6	0.0	229	0.18
	Chandigarh	206	0	4.0	3.7	0.3	34	0.00
Railways_NR ISTS	182	0	3.9	3.2	0.7	41	0.00	
WR	Chhattisgarh	4544	0	102.4	40.6	-1.0	177	0.00
	Gujarat	19025	0	412.1	209.3	0.0	1343	0.00
	MP	9809	0	214.7	129.2	-3.5	441	0.00
	Maharashtra	24614	0	541.7	206.8	0.4	970	0.63
	Goa	699	0	15.2	15.1	-0.3	47	0.00
	DNHDDPDCL	1254	0	29.2	29.5	-0.3	29	0.00
	AMNSIL	777	0	17.6	6.0	0.3	286	0.00
	BALCO	518	0	12.3	12.5	-0.2	3	0.00
	SR	Andhra Pradesh	8925	0	194.8	55.0	0.2	549
Telangana		8141	0	169.5	55.5	0.2	622	0.00
Karnataka		12928	0	249.8	108.6	-1.4	772	0.00
Kerala		4231	0	89.7	65.9	-0.5	140	0.00
Tamil Nadu		14421	0	307.0	169.7	-6.1	577	0.00
Puducherry		402	0	9.3	9.2	-0.6	31	0.00
ER	Bihar	6126	75	116.8	111.7	-1.9	264	0.56
	DVC	3559	0	76.5	-49.6	-0.5	260	0.00
	Jharkhand	1530	0	32.0	25.6	-1.6	123	2.39
	Odisha	5629	0	113.3	37.1	-1.6	296	0.00
	West Bengal	9344	0	195.0	55.4	-2.3	318	0.00
	Sikkim	88	0	1.4	1.2	0.2	52	0.00
	Railways_ER ISTS	10	0	0.1	0.2	-0.1	0	0.00
NER	Arunachal Pradesh	141	0	2.0	2.2	-0.3	44	0.00
	Assam	1799	0	32.8	26.8	0.3	149	0.00
	Manipur	167	0	2.2	2.2	0.0	15	0.00
	Meghalaya	335	32	5.6	3.5	0.3	89	1.21
	Mizoram	116	0	1.9	1.9	-0.2	4	0.00
	Nagaland	149	0	2.5	2.5	-0.1	11	0.00
	Tripura	322	0	5.8	5.3	0.5	57	0.00

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

	Bhutan	Nepal	Bangladesh	Godda -> Bangladesh
Actual (MU)	-0.1	-11.1	-25.5	-2.7
Day Peak (MW)	33.1	-508.0	-1106.0	-233.6

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	176.9	-162.6	96.3	-113.4	2.7	0.0
Actual(MU)	164.5	-150.3	89.4	-114.6	2.8	-8.2
O/D/U/D(MU)	-12.5	12.3	-6.9	-1.2	0.1	-8.2

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL	% Share
Central Sector	7997	11564	6708	980	425	27674	49
State Sector	8185	14300	4601	1440	264	28789	51
Total	16182	25863	11309	2420	689	56462	100

G. Sourcewise generation (Gross) (MU)

	NR	WR	SR	ER	NER	All India	% Share
Coal	645	1358	622	686	15	3326	75
Lignite	22	19	47	0	0	88	2
Hydro	196	43	66	46	13	363	8
Nuclear	29	36	69	0	0	135	3
Gas, Naptha & Diesel	8	28	6	0	29	72	2
RES (Wind, Solar, Biomass & Others)	163	120	188	3	1	475	11
Total	1064	1604	998	736	58	4459	100

Share of RES in total generation (%)	15.35	7.47	18.83	0.41	1.97	10.66
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	36.47	12.42	32.35	6.68	23.67	21.82

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.023
Based on State Max Demands	1.066

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

	Max Demand Met(MW)	Time	Shortage(MW)
Solar hr	181861	11:45	188
Non-Solar hr	185602	19:46	871

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: 07-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	265	681	0.0	8.1	-8.1
4	765 kV	SASARAM-FATEHPUR	1	41	434	0.0	5.6	-5.6
5	765 kV	GAYA-BALIA	1	0	730	0.0	12.3	-12.3
6	400 kV	PUSAULI-VARANASI	1	0	88	0.0	1.2	-1.2
7	400 kV	PUSAULI -ALLAHABAD	1	0	92	0.0	1.2	-1.2
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	72	626	0.0	6.0	-6.0
9	400 kV	PATNA-BALIA	2	0	543	0.0	9.3	-9.3
10	400 kV	NAUBATPUR-BALIA	2	0	575	0.0	9.0	-9.0
11	400 kV	BIHARSHARIFF-BALIA	2	221	231	0.0	0.6	-0.6
12	400 kV	MOTTHARI-GORAKHPUR	2	0	545	0.0	8.3	-8.3
13	400 kV	BIHARSHARIFF-VARANASI	2	152	283	0.0	2.4	-2.4
14	220 kV	SAHUPURI-KARAMNANA	1	0	184	0.0	2.8	-2.8
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	26	0.0	0.0	0.0
18	132 kV	KARMANASA-CHANDAULI	1	0	0	0.0	0.0	0.0
ER-NR						0.4	69.2	-68.9
Import/Export of ER (With WR)								
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	679	383	5.6	0.0	5.6
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	1071	0	15.1	0.0	15.1
3	765 kV	JHARSUGUDA-DURG	2	0	470	0.0	9.0	-9.0
4	400 kV	JHARSUGUDA-RAIGARH	4	0	463	0.0	6.8	-6.8
5	400 kV	RANCHI-SIPAT	2	251	36	1.8	0.0	1.8
6	220 kV	BUDHIPADAR-RAIGARH	1	0	62	0.0	1.3	-1.3
7	220 kV	BUDHIPADAR-KORBA	2	102	0	1.4	0.0	1.4
ER-WR						23.9	17.1	6.8
Import/Export of ER (With SR)								
1	HVDC	JEYPORE-GAZUWAKA B/B	2	0	546	0.0	12.6	-12.6
2	HVDC	TALCHER-KOLAR BIPOLE	2	0	1644	0.0	39.6	-39.6
3	765 kV	ANGUL-SRIKAKULAM	2	0	2644	0.0	50.9	-50.9
4	400 kV	TALCHER-I/C	2	253	0	4.6	0.0	4.6
5	220 kV	BALIMELA-UPPER-SILERRU	1	0	0	0.0	0.0	0.0
ER-SR						0.0	103.0	-103.0
Import/Export of ER (With NER)								
1	400 kV	BINAGURI-BONGAIGAON	2	94	86	0.6	0.3	0.3
2	400 kV	ALIPURDUAR-BONGAIGAON	2	353	173	3.0	0.0	3.0
3	220 kV	ALIPURDUAR-SALAKATI	2	65	17	0.8	0.0	0.8
ER-NER						4.4	0.3	4.1
Import/Export of NER (With NR)								
1	HVDC	BISWANATH CHARIALI-AGRA	2	287	0	6.8	0.0	6.8
NER-NR						6.8	0.0	6.8
Import/Export of WR (With NR)								
1	HVDC	CHAMPA-KURUKSHETRA	2	0	1499	0.0	14.9	-14.9
2	HVDC	VINDHYACHAL B/B	-	246	0	6.1	0.0	6.1
3	HVDC	MUNDRA-MOHINDERGARH	2	0	305	0.0	7.2	-7.2
4	765 kV	GWALIOR-AGRA	2	0	2102	0.0	39.3	-39.3
5	765 kV	GWALIOR-PHAGI	2	0	1520	0.0	23.9	-23.9
6	765 kV	JABALPUR-ORAI	2	0	846	0.0	28.1	-28.1
7	765 kV	GWALIOR-ORAI	1	904	0	17.7	0.0	17.7
8	765 kV	SATNA-ORAI	1	0	855	0.0	18.7	-18.7
9	765 kV	BANASKANTHA-CHITORGARH	2	1375	183	14.8	0.1	14.7
10	765 kV	VINDHYACHAL-VARANASI	2	0	2901	0.0	54.9	-54.9
11	400 kV	ZERDA-KANKROLI	1	255	16	3.1	0.0	3.1
12	400 kV	ZERDA -BHINMAL	1	480	84	4.4	0.1	4.3
13	400 kV	VINDHYACHAL -RIHAND	1	974	0	21.7	0.0	21.7
14	400 kV	RAPP-SHUJALPUR	2	283	355	1.1	3.8	-2.7
15	220 kV	BHANPURA-RANPUR	1	0	0	0.0	0.0	0.0
16	220 kV	BHANPURA-MORAK	1	0	30	0.0	2.1	-2.1
17	220 kV	MEHGAON-AURAIYA	1	38	8	0.3	0.0	0.3
18	220 kV	MALANPUR-AURAIYA	1	24	16	0.1	0.1	0.1
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						69.2	193.3	-124.1
Import/Export of WR (With SR)								
1	HVDC	BHADRAWATI B/B	-	0	1001	0.0	11.4	-11.4
2	HVDC	RAIGARH-PUGALUR	2	0	2501	0.0	32.1	-32.1
3	765 kV	SOLAPUR-RAICHUR	2	1363	983	9.9	2.6	7.3
4	765 kV	WARDHA-NIZAMABAD	2	0	1747	0.0	23.7	-23.7
5	400 kV	KOLHAPUR-KUDGI	2	1331	0	24.4	0.0	24.4
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	107	2.2	0.0	2.2
WR-SR						36.5	69.9	-33.4

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)	-114	62	-17	-0.42	
	ER	400kV TALA-BINAGURI 1,2,4 (& 400kV MALBASE - BINAGURI) i.e. BINAGURI RECEIPT (from TALA HEP 6*170MW)	171	91	129	3.09	
	ER	220kV CHUKHA-BIRPARA 1&2 (& 220kV MALBASE - BIRPARA) i.e. BIRPARA RECEIPT (from CHUKHA HEP 4*84MW)	-132	-81	-105	-2.52	
	NER	132kV GELEPHU-SALAKATI	15	1	9	0.21	
	NER	132kV MOTANGA-RANGIA	-35	-14	-18	-0.43	
NEPAL	NR	132kV MAHENDRANAGAR-TANAKPUR(NHPC)	-71	0	-58	-1.40	
	ER	NEPAL IMPORT (FROM BIHAR)	-82	-23	-61	-1.46	
	ER	400kV DHALKEBAR-MUZAFFARPUR 1&2	-355	-235	-342	-8.20	
BANGLADESH	ER	BHERAMARA B/B HVDC (B'DESH)	-927	-817	-910	-21.84	
	ER (Isolated from Indian Grid)	400kV GODDA_TPS-RAHANPUR (B'DESH) D/C	-234	0	-111	-2.68	
	NER	132kV COMILLA-SURAJMANI NAGAR 1&2	-179	0	-151	-3.62	