



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: 19th 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 18.05.2023.

महोदय/Dear Sir,

आई०ई०जी०सी०-2010 की धारा स.-5.5.1 केपर वध न केअन र, दिन ांक 18-मई-2023 की अखिल भ रतीय परण ली की दैनिक ग्रीड निष्प दन रिपोर्ट र ०भ ०प्रे ०क्के की वेब इट 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 18th May 2023, is available at the NLDC website.

धन्यवाद,

Report for previous day

Date of Reporting: 19-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)	62448	62829	50661	22847	2720	201505
Peak Shortage (MW)	1156	78	490	1093	21	2838
Energy Met (MU)	1271	1493	1242	532	47	4585
Hydro Gen (MU)	220	48	83	61	12	424
Wind Gen (MU)	10	146	52	-	-	208
Solar Gen (MU)*	134.44	66.57	130.84	6.02	0.73	339
Energy Shortage (MU)	11.25	1.01	0.50	7.27	1.81	21.84
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	62941	68789	59501	24683	2822	213893
Time Of Maximum Demand Met	20:27	15:23	12:28	14:09	18:33	15:01

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	0.110	0.81	2.85	13.89	17.54	62.55	19.91

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	8183	0	144.4	47.0	-4.3	360	0.00
	Haryana	8744	400	153.0	104.2	-5.1	428	1.22
	Rajasthan	14860	0	287.3	82.2	0.1	280	6.00
	Delhi	5593	0	110.8	101.7	-3.9	45	0.00
	UP	23671	340	442.2	184.7	-1.4	649	3.18
	Uttarakhand	2192	0	37.9	21.5	-3.9	262	0.01
	HP	1477	0	30.5	8.2	0.6	145	0.01
	J&K(UT) & Ladakh(UT)	2700	285	55.8	36.5	-0.5	339	0.83
	Chandigarh	268	0	5.0	5.6	-0.6	16	0.00
Railways_NR ISTS	179	0	3.9	3.1	0.8	64	0.00	
WR	Chhattisgarh	4815	0	108.8	48.9	-0.3	449	0.00
	Gujarat	20737	0	446.2	191.6	-6.0	860	0.00
	MP	12155	0	265.4	144.4	-3.0	1309	0.00
	Maharashtra	27626	0	596.7	212.2	-1.0	1152	1.01
	Goa	755	0	16.2	15.3	0.5	89	0.00
	DNHDDPDCL	1209	0	28.1	28.1	0.0	80	0.00
	AMNSIL	830	0	19.0	9.8	-0.2	259	0.00
	BALCO	519	0	12.4	12.4	0.0	9	0.00
SR	Andhra Pradesh	12653	0	251.0	103.5	3.0	1057	0.00
	Telangana	9790	0	200.8	76.2	1.9	720	0.00
	Karnataka	14690	0	283.5	99.0	5.8	1381	0.50
	Kerala	4692	0	98.2	68.3	0.5	283	0.00
	Tamil Nadu	18658	0	397.1	246.8	-1.1	788	0.00
	Puducherry	508	0	11.6	10.4	0.5	75	0.00
ER	Bihar	5883	386	107.7	98.2	-3.3	365	5.44
	DVC	3628	0	76.3	-38.8	1.7	409	0.00
	Jharkhand	1760	0	34.5	29.4	-3.6	185	1.83
	Odisha	6588	0	132.8	58.9	-2.1	479	0.00
	West Bengal	9321	0	178.9	48.6	-3.8	405	0.00
	Sikkim	96	0	1.4	1.3	0.2	49	0.00
	Railways_ER ISTS	11	0	0.1	0.2	-0.1	0	0.00
NER	Arunachal Pradesh	162	0	2.7	2.8	-0.1	41	0.00
	Assam	1746	0	30.0	23.4	0.6	143	0.38
	Manipur	175	0	2.3	2.3	-0.1	45	0.00
	Meghalaya	301	21	4.8	3.2	-0.1	71	1.43
	Mizoram	114	0	1.7	1.7	-0.2	11	0.00
	Nagaland	142	0	2.4	2.4	-0.1	12	0.00
	Tripura	244	0	3.6	3.9	-0.4	33	0.00

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

	Bhutan	Nepal	Bangladesh	Godda -> Bangladesh
Actual (MU)	2.2	-7.3	-23.1	-3.2
Day Peak (MW)	229.0	-496.0	-1074.0	-430.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	161.9	-268.9	192.4	-81.7	-3.6	0.0
Actual(MU)	115.6	-271.7	233.3	-82.2	-0.2	-5.1
O/D/U/D(MU)	-46.2	-2.8	40.9	-0.5	3.4	-5.1

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL	% Share
Central Sector	2044	5592	6328	1990	480	16434	42
State Sector	5170	10840	3818	2180	277	22284	58
Total	7214	16432	10146	4170	757	38718	100

G. Sourcewise generation (Gross) (MU)

	NR	WR	SR	ER	NER	All India	% Share
Coal	783	1520	687	632	14	3636	73
Lignite	21	19	54	0	0	94	2
Hydro	220	48	83	61	12	424	9
Nuclear	25	45	46	0	0	115	2
Gas, Naptha & Diesel	33	51	6	0	29	118	2
RES (Wind, Solar, Biomass & Others)	156	214	215	6	1	592	12
Total	1237	1896	1091	699	55	4978	100

Share of RES in total generation (%)	12.60	11.28	19.67	0.92	1.33	11.88
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	32.38	16.16	31.55	9.62	22.34	22.71

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.022
Based on State Max Demands	1.064

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

	Max Demand Met(MW)	Time	Shortage(MW)
Solar hr	213893	15:01	480
Non-Solar hr	205263	22:30	4281

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: 19-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	2.3	-2.3	
3	765 kV	GAYA-VARANASI	2	472	542	0.0	2.8	-2.8	
4	765 kV	SASARAM-FATEHPUR	1	96	306	0.0	3.0	-3.0	
5	765 kV	GAYA-BALIA	1	0	746	0.0	8.9	-8.9	
6	400 kV	PUSAULI-VARANASI	1	0	121	0.0	1.7	-1.7	
7	400 kV	PUSAULI -ALLAHABAD	1	15	74	0.0	0.7	-0.7	
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	31	798	0.0	9.4	-9.4	
9	400 kV	PATNA-BALIA	2	44	595	0.0	5.9	-5.9	
10	400 kV	NAUBATPUR-BALIA	2	104	617	0.0	5.6	-5.6	
11	400 kV	BIHARSHARIFF-BALIA	2	100	473	0.0	3.8	-3.8	
12	400 kV	MOTIHARI-GORAKHPUR	2	19	420	0.0	5.3	-5.3	
13	400 kV	BIHARSHARIFF-VARANASI	2	238	242	0.0	1.5	-1.5	
14	220 kV	SAHUPURI-KARAMNANA	1	0	206	0.0	3.0	-3.0	
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-CHANDAULI	1	0	0	0.0	0.0	0.0	
						ER-NR	0.5	54.0	-53.4
Import/Export of ER (With WR)									
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	2010	147	28.3	0.0	28.3	
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	647	486	4.9	0.0	4.9	
3	765 kV	JHARSUGUDA-DURG	2	0	408	0.0	5.9	-5.9	
4	400 kV	JHARSUGUDA-RAIGARH	4	0	474	0.0	6.2	-6.2	
5	400 kV	RANCHI-SIPAT	2	191	114	0.9	0.0	0.9	
6	220 kV	BUDHIPADAR-RAIGARH	1	0	73	0.0	1.5	-1.5	
7	220 kV	BUDHIPADAR-KORBA	2	106	0	1.9	0.0	1.9	
						ER-WR	36.0	13.6	22.5
Import/Export of ER (With SR)									
1	HVDC	JEYPORE-GAZUWAKA B/B	2	0	545	0.0	12.5	-12.5	
2	HVDC	TALCHER-KOLAR BIPOLE	2	0	1690	0.0	40.8	-40.8	
3	765 kV	ANGUL-SRIKAKULAM	2	0	3099	0.0	55.8	-55.8	
4	400 kV	TALCHER-I/C	2	209	414	2.6	0.0	2.6	
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	164	0	2.4	0.0	2.4	
2	400 kV	ALIPURDUAR-BONGAIGAON	2	541	0	8.4	0.0	8.4	
3	220 kV	ALIPURDUAR-SALAKATI	2	102	0	1.7	0.0	1.7	
						ER-NER	12.5	0.0	12.5
Import/Export of NER (With NR)									
1	HVDC	BISWANATH CHARIALI-AGRA	2	482	0	11.6	0.0	11.6	
						NER-NR	11.6	0.0	11.6
Import/Export of WR (With NR)									
1	HVDC	CHAMPA-KURUKSHETRA	2	5	3579	0.0	14.7	-14.7	
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	100	1624	0.0	21.1	-21.0	
5	765 kV	GWALIOR-PHAGI	2	271	1294	0.4	13.0	-12.6	
6	765 kV	JABALPUR-ORAI	2	74	905	0.0	16.5	-16.5	
7	765 kV	GWALIOR-ORAI	1	666	0	11.6	0.0	11.6	
8	765 kV	SATNA-ORAI	1	0	938	0.0	17.8	-17.8	
9	765 kV	BANASKANTHA-CHITORGARH	2	1628	285	16.8	0.3	16.5	
10	765 kV	VINDHYACHAL-VARANASI	2	0	2684	0.0	46.3	-46.3	
11	400 kV	ZERDA-KANKROLI	1	225	53	2.7	0.1	2.7	
12	400 kV	ZERDA -BHINMAL	1	328	177	3.4	0.5	2.9	
13	400 kV	VINDHYACHAL -RIHAND	1	968	0	21.9	0.0	21.9	
14	400 kV	RAPP-SHUJALPUR	2	395	281	3.6	1.3	2.4	
15	220 kV	BHANPURA-RANPUR	1	0	0	0.0	0.0	0.0	
16	220 kV	BHANPURA-MORAK	1	0	30	0.0	2.6	-2.6	
17	220 kV	MEHGAON-AURAIYA	1	92	0	1.5	0.0	1.5	
18	220 kV	MALANPUR-AURAIYA	1	79	0	1.1	0.0	1.1	
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	75.2	153.5	-78.3
Import/Export of WR (With SR)									
1	HVDC	BHADRAWATI B/B	-	0	1009	0.0	24.0	-24.0	
2	HVDC	RAIGARH-PUGALUR	2	0	6029	0.0	109.2	-109.2	
3	765 kV	SOLAPUR-RAICHUR	2	829	2504	2.1	17.4	-15.3	
4	765 kV	WARDHA-NIZAMABAD	2	0	2862	0.0	41.5	-41.5	
5	400 kV	KOLHAPUR-KUDGI	2	1221	0	17.4	0.0	17.4	
6	220 kV	KOLHAPUR-CHIKODI	2	0	0	0.0	0.0	0.0	
7	220 kV	PONDA-AMBEWADI	1	0	72	0.0	0.2	-0.2	
8	220 kV	XELDEM-AMBEWADI	1	0	129	2.4	0.0	2.4	
						WR-SR	21.9	192.4	-170.5

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)	98	-11	20	0.49	
	ER	400kV TALA-BINAGURI 1,2,4 (& 400kV MALBASE - BINAGURI) i.e. BINAGURI RECEIPT (from TALA HEP 6*170MW)	215	133	174	4.17	
	ER	220kV CHUKHA-BIRPARA 1&2 (& 220kV MALBASE - BIRPARA) i.e. BIRPARA RECEIPT (from CHUKHA HEP 4*84MW)	-141	-93	-113	-2.72	
	NER	132kV GELEPHU-SALAKATI	-18	-6	-13	-0.31	
	NER	132kV MOTANGA-RANGIA	35	10	24	0.58	
NEPAL	NR	132kV MAHENDRANAGAR-TANAKPUR(NHPC)	-77	0	-60	-1.45	
	ER	NEPAL IMPORT (FROM BIHAR)	-67	-3	-19	-0.47	
	ER	400kV DHALKEBAR-MUZAFFARPUR 1&2	-352	-46	-225	-5.40	
BANGLADESH	ER	BHERAMARA B/B HVDC (B'DESH)	-930	-153	-843	-20.24	
	ER (Isolated from Indian Grid)	400kV GODDA_TPS-RAHANPUR (B'DESH) D/C	-430	82	-131	-3.15	
	NER	132kV COMILLA-SURAJMANI NAGAR 1&2	-144	0	-118	-2.82	