



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: 9th June 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 08.06.2023.

महोदय/Dear Sir,

आई०ई०जी०सी०-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 08-जून-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 8th June 2023, is available at the NLDC website.

धन्यवाद,

ग्रिड कंट्रोलर ऑफ इंडिया लिमिटेड
राष्ट्रीय भार प्रेषण केंद्र, नई दिल्ली



Report for previous day

Date of Reporting: 09-Jun-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)	65135	62905	48610	27105	3404	207159
Peak Shortage (MW)	240	191	0	98	19	548
Energy Met (MU)	1467	1502	1184	639	68	4860
Hydro Gen (MU)	229	26	57	71	9	391
Wind Gen (MU)	31	154	196	-	-	381
Solar Gen (MU)*	134.33	67.45	122.90	2.86	1.08	329
Energy Shortage (MU)	3.62	2.57	0.00	1.81	2.04	10.04
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	68134	69491	56452	29137	3400	222920
Time Of Maximum Demand Met	22:45	14:52	15:00	23:59	19:51	14:59

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	0.00	0.00	3.74	3.74	66.38	29.88

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	8920	0	188.5	82.7	-0.9	75	0.00
	Haryana	9689	413	200.2	129.4	-5.3	64	1.05
	Rajasthan	13986	0	287.8	65.3	-3.8	308	0.00
	Delhi	5971	0	121.2	110.2	-1.9	120	0.00
	UP	25942	0	527.8	246.7	-0.8	253	0.00
	Uttarakhand	2298	0	50.2	29.0	1.1	156	0.74
	HP	1536	0	31.8	6.9	0.9	116	0.00
	J&K(UT) & Ladakh(UT)	2297	60	50.5	25.5	1.3	151	1.83
	Chandigarh	282	0	5.7	5.7	0.0	22	0.00
	Railways NR ISTS	172	0	3.9	3.3	0.6	46	0.00
WR	Chhattisgarh	4906	0	111.1	52.0	-1.0	272	0.00
	Gujarat	22118	0	460.0	202.0	3.2	1244	0.00
	MP	11259	0	253.7	134.4	-3.1	322	0.00
	Maharashtra	28153	865	601.2	210.9	3.3	1706	2.57
	Goa	775	0	17.1	16.1	0.7	153	0.00
	DNHDDPDCL	1260	0	29.7	29.9	-0.2	60	0.00
	AMNSIL	779	0	17.2	10.6	-0.2	264	0.00
	BALCO	518	0	12.4	12.5	-0.1	517	0.00
	Andhra Pradesh	11948	0	242.1	66.4	0.3	1128	0.00
	Telangana	10123	0	203.2	82.4	1.1	768	0.00
SR	Karnataka	13646	0	264.8	79.6	4.4	884	0.00
	Kerala	4028	0	82.2	65.8	0.1	254	0.00
	Tamil Nadu	17829	0	380.9	148.7	-1.9	1386	0.00
	Puducherry	480	0	10.6	10.0	-0.1	55	0.00
	Bihar	6955	0	148.5	137.7	-0.8	146	1.50
ER	DVC	3351	0	75.9	-49.9	-1.3	313	0.31
	Jharkhand	1860	0	38.2	35.2	-2.0	391	0.00
	Odisha	5911	0	132.1	61.6	1.7	707	0.00
	West Bengal	11806	0	243.1	123.1	-2.4	443	0.00
	Sikkim	99	0	1.5	1.3	0.2	41	0.00
	Railways ER ISTS	41	0	0.2	0.3	0.0	6	0.00
	Assam	158	0	2.9	2.4	0.5	51	0.00
NER	Assam	2300	0	47.4	40.1	1.5	300	0.35
	Manipur	157	0	2.2	2.4	-0.2	13	0.00
	Meghalaya	317	19	4.5	3.4	0.0	83	1.69
	Mizoram	109	0	1.9	1.8	-0.2	16	0.00
	Nagaland	170	0	3.0	2.8	-0.1	10	0.00
	Tripura	332	0	5.8	6.0	0.5	100	0.00

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

	Bhutan	Nepal	Bangladesh	Godda -> Bangladesh
Actual (MU)	3.0	-8.9	-25.4	-15.1
Day Peak (MW)	307.0	-649.7	-1074.0	-1171.5

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	263.2	-280.9	45.8	-51.5	23.4	0.0
Actual(MU)	240.7	-283.6	58.4	-46.4	24.6	-6.3
OD/UD(MU)	-22.5	-2.7	12.6	5.1	1.3	-6.3

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL	% Share
Central Sector	1945	7060	5268	470	818	15561	41
State Sector	4255	10809	3978	2814	286	22141	59
Total	6200	17869	9246	3284	1104	37701	100

G. Sourcewise generation (Gross) (MU)

	NR	WR	SR	ER	NER	All India	% Share
Coal	822	1573	704	694	18	3811	73
Lignite	21	20	52	0	0	93	2
Hydro	229	26	57	71	9	391	7
Nuclear	29	32	46	0	0	107	2
Gas, Naptha & Diesel	40	43	6	0	23	113	2
RES (Wind, Solar, Biomass & Others)	174	222	335	3	1	735	14
Total	1316	1916	1200	768	50	5249	100

Share of RES in total generation (%)	13.20	11.57	27.95	0.43	2.16	14.04
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	32.83	14.59	36.45	9.78	19.43	23.54

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.016
Based on State Max Demands	1.042

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

	Max Demand Met(MW)	Time	Shortage(MW)
Solar hr	222920	14:59	313
Non-Solar hr	214595	22:45	1395

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: 09-Jun-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	543	317	2.9	0.0	2.9
4	765 kV	SASARAM-FATEHPUR	1	82	303	0.0	2.7	-2.7
5	765 kV	GAYA-BALIA	1	0	682	0.0	11.7	-11.7
6	400 kV	PUSAULI-VARANASI	1	0	118	0.0	1.6	-1.6
7	400 kV	PUSAULI -ALLAHABAD	1	51	68	0.0	0.6	-0.6
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	309	467	0.0	1.7	-1.7
9	400 kV	PATNA-BALIA	2	0	473	0.0	6.5	-6.5
10	400 kV	NAUBATPUR-BALIA	2	33	482	0.0	6.1	-6.1
11	400 kV	BIHARSHARIFF-BALIA	2	315	125	1.8	0.0	1.8
12	400 kV	MOTIHARI-GORAKHPUR	2	79	378	0.0	3.9	-3.9
13	400 kV	BIHARSHARIFF-VARANASI	2	243	137	0.0	0.4	-0.4
14	220 kV	SAHUPURI-KARAMNANA	1	0	190	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	0.7	0.0	0.7
17	132 kV	KARMANASA-SAHUPURI	1	0	66	0.0	0.0	0.0
18	132 kV	KARMANASA-CHANDAULI	1	0	0	0.0	0.0	0.0
ER-NR						5.4	40.6	-35.2
Import/Export of ER (With WR)								
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	1589	102	14.5	0.0	14.5
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	1841	0	32.9	0.0	32.9
3	765 kV	JHARSUGUDA-DURG	2	0	477	0.0	4.4	-4.4
4	400 kV	JHARSUGUDA-RAIGARH	4	279	210	0.0	0.3	-0.3
5	400 kV	RANCHI-SIPAT	2	414	0	7.2	0.0	7.2
6	220 kV	BUDHIPADAR-RAIGARH	1	0	44	0.0	1.2	-1.2
7	220 kV	BUDHIPADAR-KORBA	2	212	0	3.5	0.0	3.5
ER-WR						58.1	5.9	52.2
Import/Export of ER (With SR)								
1	HVDC	JEYPORE-GAZUWAKA B/B	2	0	650	0.0	13.7	-13.7
2	HVDC	TALCHER-KOLAR BIPOLE	2	0	993	0.0	24.1	-24.1
3	765 kV	ANGUL-SRIKAKULAM	2	0	2929	0.0	42.1	-42.1
4	400 kV	TALCHER-I/C	2	427	0	8.4	0.0	8.4
5	220 kV	BALIMELA-UPPER-SILERRU	1	0	0	0.0	0.0	0.0
ER-SR						0.0	79.8	-79.8
Import/Export of ER (With NER)								
1	400 kV	BINAGURI-BONGAIGAON	2	0	373	0.0	4.5	-4.5
2	400 kV	ALIPURDUAR-BONGAIGAON	2	0	668	0.0	10.5	-10.5
3	220 kV	ALIPURDUAR-SALAKATI	2	4	126	0.0	2.2	-2.2
ER-NER						0.0	17.2	-17.2
Import/Export of NER (With NR)								
1	HVDC	BISWANATH CHARIALI-AGRA	2	382	0	6.6	0.0	6.6
NER-NR						6.6	0.0	6.6
Import/Export of WR (With NR)								
1	HVDC	CHAMPA-KURUKSHETRA	2	0	5037	0.0	94.0	-94.0
2	HVDC	VINDHYACHAL B/B	-	444	0	12.2	0.0	12.2
3	HVDC	MUNDRA-MOHINDERGARH	2	0	1449	0.0	21.2	-21.2
4	765 kV	GWALIOR-AGRA	2	0	2049	0.0	35.4	-35.4
5	765 kV	GWALIOR-PHAGI	2	403	1029	0.0	11.5	-11.5
6	765 kV	JABALPUR-ORAI	2	0	962	0.0	31.7	-31.7
7	765 kV	GWALIOR-ORAI	1	560	0	10.1	0.0	10.1
8	765 kV	SATNA-ORAI	1	0	1018	0.0	20.7	-20.7
9	765 kV	BANASKANTHA-CHITORGARH	2	1433	136	14.6	0.0	14.6
10	765 kV	VINDHYACHAL-VARANASI	2	0	3601	0.0	72.2	-72.2
11	400 kV	ZERDA-KANKROLI	1	267	0	3.4	0.0	3.4
12	400 kV	ZERDA-BHINMAL	1	550	27	6.8	0.0	6.8
13	400 kV	VINDHYACHAL -RIHAND	1	959	0	21.9	0.0	21.9
14	400 kV	RAPP-SHUJALPUR	2	331	329	0.1	0.0	0.1
15	220 kV	BHANPURA-RANPUR	1	0	0	0.0	0.0	0.0
16	220 kV	BHANPURA-MORAK	1	0	30	0.0	1.7	-1.7
17	220 kV	MEHGAON-AURAIYA	1	94	0	1.1	0.0	1.1
18	220 kV	MALANPUR-AURAIYA	1	65	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						70.9	288.3	-217.3
Import/Export of WR (With SR)								
1	HVDC	BHADRAWATI B/B	-	992	508	9.4	5.0	4.4
2	HVDC	RAIGARH-PUGALUR	2	0	1500	0.0	21.0	-21.0
3	765 kV	SOLAPUR-RAICHUR	2	1404	1541	6.3	0.0	6.3
4	765 kV	WARDHA-NIZAMABAD	2	0	2887	0.0	34.3	-34.3
5	400 kV	KOLHAPUR-KUDGI	2	1607	0	28.8	0.0	28.8
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	127	2.6	0.0	2.6
WR-SR						47.1	60.2	-13.1

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)	204	0	120	2.87	
	ER	400kV TALA-BINAGURI 1,2,4 (& 400kV MALBASE - BINAGURI) i.e. BINAGURI RECEIPT (from TALA HEP 6*170MW)	200	27	99	2.37	
	ER	220kV CHUKHA-BIRPARA 1&2 (& 220kV MALBASE - BIRPARA) i.e. BIRPARA RECEIPT (from CHUKHA HEP 4*84MW)	-112	3	-45	-1.08	
	NER	132kV GELEPHU-SALAKATI	-13	-4	-5	-0.11	
	NER	132kV MOTANGA-RANGIA	-55	-26	-45	-1.08	
NEPAL	NR	132kV MAHENDRANAGAR-TANAKPUR(NHPC)	-76	0	-65	-1.56	
	ER	NEPAL IMPORT (FROM BIHAR)	-186	-39	-117	-2.82	
	ER	400kV DHALKEBAR-MUZAFFARPUR 1&2	-388	0	-187	-4.49	
BANGLADESH	ER	BHERAMARA B/B HVDC (B'DESH)	-926	-813	-903	-21.67	
	ER (Isolated from Indian Grid)	400kV GODDA_TPS-RAHANPUR (B'DESH) D/C	-1172	0	-629	-15.09	
	NER	132kV COMILLA-SURAJMANI NAGAR 1&2	-148	0	-154	-3.70	