



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: 24th 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 23.06.2023.

महोदय/Dear Sir,

आईईजीसी-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 23-जून-2023 की अखिल भारतीय प्रणाली की दैनिक ग्रीड निष्पादन रिपोर्ट रांभांप्रेके 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 23rd June 2023, is available at the NLDC website.

धन्यवाद,

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



Report for previous day

Date of Reporting: 24-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)	76072	58647	45785	26333	2984	209821
Peak Shortage (MW)	0	25	0	147	28	200
Energy Met (MU)	1719	1436	1101	577	57	4889
Hydro Gen (MU)	395	40	42	103	30	610
Wind Gen (MU)	46	118	178	-	-	342
Solar Gen (MU)*	140.06	46.94	95.22	2.36	1.01	286
Energy Shortage (MU)	0.73	0.68	0.00	1.72	1.20	4.33
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	77341	63432	51560	27647	3131	215938
Time Of Maximum Demand Met	22:55	14:58	11:54	23:15	19:18	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	0.046	0.00	0.00	7.75	7.75	70.11	22.14

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	15237	0	339.8	201.8	-1.2	98	0.00
	Haryana	11500	0	249.6	185.0	-5.0	0	0.15
	Rajasthan	13819	0	303.1	77.2	-4.9	257	0.00
	Delhi	6933	0	143.3	129.8	-2.6	116	0.00
	UP	25564	0	528.3	257.2	-1.4	239	0.00
	Uttarakhand	2436	0	53.4	25.8	-2.0	54	0.02
	HP	1591	0	33.7	-4.5	-0.3	130	0.11
	J&K(UT) & Ladakh(UT)	2589	50	55.8	27.3	2.9	245	0.45
	Chandigarh	366	0	7.5	7.8	-0.4	59	0.00
	Railways NR ISTS	191	0	4.2	3.3	0.8	48	0.00
	Chhattisgarh	4446	116	99.7	53.0	-1.6	470	0.26
	Gujarat	19097	0	416.3	185.7	-1.6	761	0.00
	MP	10551	0	231.1	112.7	-3.5	641	0.00
WR	Maharashtra	27008	0	613.4	231.1	-2.1	616	0.09
	Goa	647	0	14.4	14.2	-0.4	104	0.33
	DNHDDPDCL	1307	0	30.5	30.8	-0.3	50	0.00
	AMNSIL	817	0	17.7	7.1	0.4	314	0.00
	BALCO	523	0	12.4	12.4	0.0	9	0.00
	Andhra Pradesh	9704	0	211.6	56.7	-1.0	610	0.00
	Telangana	9897	0	198.1	88.9	-0.4	634	0.00
	Karnataka	12511	0	241.7	71.3	-1.8	813	0.00
	Kerala	4029	0	82.1	66.7	1.1	363	0.00
	Tamil Nadu	16465	0	356.9	151.3	-5.5	449	0.00
SR	Puducherry	449	0	10.2	9.9	-0.5	42	0.00
	Bihar	6749	0	136.0	132.0	-2.4	373	1.28
	DVC	3569	0	78.3	-49.7	0.4	338	0.00
	Jharkhand	1798	147	36.7	29.1	-0.9	308	0.44
	Odisha	5415	0	110.3	42.3	-2.2	472	0.00
	West Bengal	10247	0	214.2	78.9	-1.7	318	0.00
	Sikkim	91	0	1.5	1.5	0.0	23	0.00
	Railways ER ISTS	15	0	0.0	0.3	-0.2	4	0.00
	Assam	143	0	2.7	2.4	0.1	64	0.00
	Arumachal Pradesh	2010	0	36.9	29.5	0.9	200	0.00
NER	Manipur	180	0	2.4	2.4	0.0	17	0.00
	Meghalaya	315	13	4.8	1.4	-0.2	75	1.20
	Mizoram	109	0	1.8	1.6	-0.2	8	0.00
	Nagaland	151	0	2.7	2.4	-0.1	16	0.00
	Tripura	298	0	5.6	5.9	0.0	86	0.00

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

	Bhutan	Nepal	Bangladesh	Godda -> Bangladesh
Actual (MU)	25.9	4.9	-25.5	-17.9
Day Peak (MW)	1364.6	276.0	-1103.0	-804.1

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	339.3	-231.5	49.4	-146.7	-10.5	0.0
Actual(MU)	303.2	-236.0	62.9	-130.2	-8.8	-8.9
OD/U/D(MU)	-36.1	-4.4	13.5	16.6	1.6	-8.9

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL	% Share
Central Sector	485	7490	4998	1810	455	15238	41
State Sector	4215	11094	4858	1610	240	22017	59
Total	4700	18584	9856	3420	695	37254	100

G. Sourcewise generation (Gross) (MU)

	NR	WR	SR	ER	NER	All India	% Share
Coal	311	1480	645	659	14	3609	69
Lignite	30	17	38	0	0	104	2
Hydro	395	40	42	103	30	610	12
Nuclear	29	45	51	0	0	125	2
Gas, Naptha & Diesel	46	53	7	0	28	134	3
RES (Wind, Solar, Biomass & Others)	191	166	296	3	1	657	13
Total	1502	1801	1099	765	73	5239	100

Share of RES in total generation (%)	12.75	9.21	26.93	0.38	1.39	12.57
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	40.96	13.92	35.40	14.14	42.56	26.64

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.033
Based on State Max Demands	1.059

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

	Max Demand Met(MW)	Time	Shortage(MW)
Solar hr	215938	14:59	116
Non-Solar hr	212944	22:50	318

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: 24-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	1000	0.0	18.4	-18.4
2	HVDC	PUSAULI B/B	-	0	97	0.0	2.3	-2.3
3	765 kV	GAYA-VARANASI	2	318	347	0.0	1.9	-1.9
4	765 kV	SASARAM-FATEHPUR	1	60	409	0.0	4.6	-4.6
5	765 kV	GAYA-BALIA	1	0	399	0.0	14.3	-14.3
6	400 kV	PUSAULI-VARANASI	1	0	109	0.0	1.4	-1.4
7	400 kV	PUSAULI-ALLEAHABAD	1	41	82	0.0	0.7	-0.7
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	0	1018	0.0	15.0	-15.0
9	400 kV	PATNA-BALIA	2	0	661	0.0	11.7	-11.7
10	400 kV	NAUBATPUR-BALIA	2	0	703	0.0	11.8	-11.8
11	400 kV	BIHARSHARIFF-BALIA	2	0	518	0.0	7.7	-7.7
12	400 kV	MOTIHARI-GORAKHPUR	2	0	554	0.0	8.7	-8.7
13	400 kV	BIHARSHARIFF-VARANASI	2	121	306	0.0	3.0	-3.0
14	220 kV	SAHUPUR-KARMANASA	1	0	150	0.0	2.2	-2.2
15	132 kV	NAGARUNTARI-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	64	0.0	0.0	0.0
18	132 kV	KARMANASA-CHANDAULI	1	0	0	0.0	0.0	0.0
ER-NR						0.5	103.7	-103.2
Import/Export of ER (With WR)								
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	1205	94	14.9	0.0	14.9
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	1587	615	16.7	0.0	16.7
3	765 kV	JHARSUGUDA-DURG	2	0	419	0.0	4.5	-4.5
4	400 kV	JHARSUGUDA-RAIGARH	4	0	409	0.0	5.3	-5.3
5	400 kV	RANCHI-SIPAT	2	289	255	1.2	0.0	1.2
6	220 kV	BUDHIPADAR-RAIGARH	1	0	44	0.0	0.7	-0.7
7	220 kV	BUDHIPADAR-KORBA	2	132	0	2.1	0.0	2.1
ER-WR						34.9	10.6	24.2
Import/Export of ER (With SR)								
1	HVDC	JEYPORE-GAZIWAKA B/B	2	0	443	0.0	7.4	-7.4
2	HVDC	TALCHER-KOLAR BIPOLE	2	0	1640	0.0	32.8	-32.8
3	765 kV	ANGUL-SRIKAKULAM	2	0	3000	0.0	41.8	-41.8
4	400 kV	TALCHER-IC	2	228	478	0.2	0.0	0.2
5	220 kV	BALIMELA-UPPER-SILERRU	1	0	0	0.0	0.0	0.0
ER-SR						0.0	81.9	-81.9
Import/Export of ER (With NER)								
1	400 kV	BINAGURI-BONGAIGAON	2	131	369	0.4	3.2	-2.8
2	400 kV	ALIPURDUAR-BONGAIGAON	2	407	457	0.0	0.1	-0.1
3	220 kV	ALIPURDUAR-SALAKATI	2	44	106	0.0	0.6	-0.6
ER-NER						0.4	3.9	-3.5
Import/Export of NER (With NR)								
1	HVDC	BISWANATH CHARIAL-AGRA	2	0	702	0.0	13.1	-13.1
NER-NR						0.0	13.1	-13.1
Import/Export of WR (With NR)								
1	HVDC	CHAMPA-KURUKSHETRA	2	0	5547	0.0	83.1	-83.1
2	HVDC	VINDHYACHAL B/B	-	45	0	1.2	0.0	1.2
3	HVDC	MUNDRA-MOHINDERGARH	2	505	0	0.0	5.9	-5.9
4	765 kV	GWALIOR-AGRA	2	293	2548	0.3	33.1	-32.7
5	765 kV	GWALIOR-PHAGI	2	253	1505	0.9	16.4	-15.5
6	765 kV	JABALPUR-ORAI	2	26	1293	0.0	32.0	-32.0
7	765 kV	GWALIOR-ORAI	1	580	0	9.7	0.0	9.7
8	765 kV	SATNA-ORAI	1	0	1132	0.0	21.4	-21.4
9	765 kV	BANASKANTHA-CHITORGARH	2	1559	907	12.8	3.6	9.2
10	765 kV	VINDHYACHAL-VARANASI	2	0	3820	0.0	65.0	-65.0
11	400 kV	ZERDA-KANKROLI	1	307	108	3.0	0.3	2.7
12	400 kV	ZERDA-BHINMAL	1	552	110	6.5	0.2	6.3
13	400 kV	VINDHYACHAL-RIHAND	1	961	0	21.5	0.0	21.5
14	400 kV	RAPP-SHUJALPUR	2	445	531	3.1	3.3	-0.2
15	220 kV	BHANPURA-RANPUR	1	0	0	0.0	0.0	0.0
16	220 kV	BHANPURA-MORAK	1	0	30	0.0	2.5	-2.5
17	220 kV	MEHGAON-AURAIYA	1	115	0	1.2	0.0	1.2
18	220 kV	MALANPUR-AURAIYA	1	88	0	0.7	0.0	0.7
19	132 kV	GWALIOR-SAWALMADHOPUR	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						60.8	266.6	-205.8
Import/Export of WR (With SR)								
1	HVDC	BHADRAWATI B/B	-	0	305	0.0	7.2	-7.2
2	HVDC	RAIGARH-PIGALUR	2	0	3503	0.0	26.8	-26.8
3	765 kV	SOLAPUR-RAICHUR	2	1929	1713	16.9	3.7	13.2
4	765 kV	WARDHA-NIZAMABAD	2	102	2689	0.1	26.1	-26.1
5	400 kV	KOLHAPUR-KUDGI	2	1556	0	28.5	0.0	28.5
6	220 kV	KOLHAPUR-CHIKODI	2	0	0	0.0	0.0	0.0
7	220 kV	PONDA-AMBEWADI	1	2	0	0.0	0.0	0.0
8	220 kV	XELDEM-AMBEWADI	1	1	109	1.0	0.0	1.0
WR-SR						46.5	63.9	-17.4

INTERNATIONAL EXCHANGES

State	Region	Line Name	Max (MW)	Min (MW)	Avg (MW)	Energy Exchange (MU)
BHUTAN	ER	400kV MANGDECHHU-ALIPURDUAR 1,2&3 Lc. ALIPURDUAR RECEIPT (from MANGDECHHU HEP 4*800MW)	573	325	444	10.65
	ER	400kV TALA-BINAGURI 1,2,4 (& 400kV MALBASE - BINAGURI) Lc. BINAGURI RECEIPT (from TALA HEP 6*170MW)	752	475	628	15.06
	ER	220kV CHUKHA-BIRPARA 1&2 (& 220kV MALBASE - BIRPARA) Lc. BIRPARA RECEIPT (from CHUKHA HEP 4*84MW)	80	26	48	1.16
	NER	132kV GELEPHU-SALAKATI	-20	0	-9	-0.22
	NER	132kV MOTANGA-RANGIA	-48	-16	-33	-0.78
NEPAL	NR	132kV MAHENDRANAGAR-TANAKPUR(NHPC)	0	0	0	-1.15
	ER	NEPAL IMPORT (FROM BIHAR)	-49	0	-11	-0.27
BANGLADESH	ER	400kV DHALKEBAR-MUZAFFARPUR 1&2	399	188	263	6.32
	ER	BHERAMARA B/B HVDC (B'DESH)	-931	-794	-906	-21.74
	ER (Isolated from Indian Grid)	400kV GODDA_TPS-RAHANPUR (B'DESH) D/C	-804	-687	-748	-17.95
	NER	132kV COMILLA-SURAJMANI NAGAR 1&2	172	0	-158	-3.80