



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: 01st July 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 30.06.2023.

महोदय/Dear Sir,

आईईजीसी-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 30-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 30th June 2023, is available at the NLDC website.

धन्यवाद,

Report for previous day

Date of Reporting: 01-Jul-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)	65241	51919	47057	24794	3031	192042
Peak Shortage (MW)	0	0	0	0	13	13
Energy Met (MU)	1441	1198	1112	500	60	4311
Hydro Gen (MU)	396	38	38	130	23	625
Wind Gen (MU)	29	176	214	-	-	419
Solar Gen (MU)*	126.42	37.22	115.61	2.45	0.89	283
Energy Shortage (MU)	0.11	0.00	0.00	0.34	1.16	1.61
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	66660	53665	51760	25168	3066	193125
Time Of Maximum Demand Met	22:22	19:34	15:42	23:18	20:47	22:18

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	0.056	0.00	1.03	7.19	8.22	63.03	28.76

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	14139	0	311.6	201.5	-1.3	233	0.00
	Haryana	10357	0	221.5	172.5	-1.1	325	0.00
	Rajasthan	11521	0	249.2	72.9	-4.9	259	0.00
	Delhi	5770	0	118.2	115.5	-2.4	206	0.08
	UP	21221	0	396.1	193.0	-5.5	370	0.00
	Uttarakhand	2085	0	45.8	17.6	-1.0	104	0.00
	HP	1753	0	36.0	-8.3	-0.1	78	0.03
	J&K(UT) & Ladakh(UT)	2539	0	52.5	24.8	1.1	231	0.00
	Chandigarh	320	0	6.4	6.7	-0.2	12	0.00
Railways_NR ISTS	199	0	4.0	3.5	0.5	40	0.00	
WR	Chhattisgarh	4571	0	100.8	54.6	1.9	376	0.00
	Gujarat	15371	0	333.6	160.2	-1.6	1423	0.00
	MP	9576	0	201.5	86.4	-3.8	534	0.00
	Maharashtra	21822	0	487.4	144.7	-2.2	576	0.00
	Goa	630	0	13.8	12.4	1.0	75	0.00
	DNHDDPDCL	1274	0	29.4	29.2	0.2	69	0.00
	AMNSIL	862	0	19.2	9.9	-0.1	256	0.00
	BALCO	520	0	12.4	12.5	-0.1	516	0.00
SR	Andhra Pradesh	10721	0	233.0	60.3	-1.5	543	0.00
	Telangana	9791	0	199.1	87.1	0.2	608	0.00
	Karnataka	11552	0	218.6	57.4	-2.1	574	0.00
	Kerala	3843	0	76.2	64.4	1.3	275	0.00
	Tamil Nadu	17850	0	374.3	160.1	-3.5	347	0.00
	Puducherry	462	0	10.5	10.4	-0.6	57	0.00
ER	Bihar	5765	0	97.7	89.4	-1.8	323	0.34
	DVC	3783	0	76.1	-32.8	1.0	329	0.00
	Jharkhand	1729	0	33.6	24.2	0.7	246	0.00
	Odisha	5742	0	98.6	42.3	-2.0	480	0.00
	West Bengal	9202	0	190.7	71.4	-1.3	362	0.00
	Sikkim	82	0	1.3	1.4	-0.1	13	0.00
	Railways_ER ISTS	20	0	1.5	0.3	1.2	9	0.00
NER	Arunachal Pradesh	160	0	2.7	2.6	-0.1	52	0.00
	Assam	2053	0	40.5	33.8	0.6	100	0.00
	Manipur	173	0	2.5	2.4	0.1	37	0.00
	Meghalaya	323	5	5.3	2.2	-0.2	67	1.16
	Mizoram	115	0	1.8	1.7	-0.2	12	0.00
	Nagaland	158	0	2.9	2.5	-0.1	16	0.00
	Tripura	241	0	4.6	4.1	0.1	67	0.00

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

	Bhutan	Nepal	Bangladesh	Godda -> Bangladesh
Actual (MU)	45.8	7.4	-19.9	-12.3
Day Peak (MW)	1799.7	311.0	-1074.0	-581.6

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	306.5	-216.3	56.1	-153.3	7.0	0.0
Actual(MU)	257.9	-201.9	82.7	-152.0	9.2	-4.1
O/D/U/D(MU)	-48.7	14.3	26.6	1.3	2.3	-4.1

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL	% Share
Central Sector	4689	14176	5868	1985	818	27536	46
State Sector	8445	16443	5220	2040	261	32408	54
Total	13134	30619	11088	4025	1079	59944	100

G. Sourcewise generation (Gross) (MU)

	NR	WR	SR	ER	NER	All India	% Share
Coal	630	1186	601	564	12	2993	65
Lignite	26	12	55	0	0	93	2
Hydro	396	38	38	130	23	625	14
Nuclear	29	47	50	0	0	127	3
Gas, Naptha & Diesel	15	9	6	0	22	52	1
RES (Wind, Solar, Biomass & Others)	161	214	352	3	1	732	16
Total	1258	1506	1103	698	58	4623	100

Share of RES in total generation (%)	12.83	14.21	31.95	0.48	1.54	15.88
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	46.63	19.83	39.97	19.16	41.61	32.19

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.037
Based on State Max Demands	1.078

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

	Max Demand Met(MW)	Time	Shortage(MW)
Solar hr	190366	15:01	0
Non-Solar hr	193125	22:18	0

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: 01-Jul-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	1503	0.0	35.1	-35.1
2	HVDC	PUSAULI B/B	-	2	97	0.0	1.1	-1.1
3	765 kV	GAYA-VARANASI	2	546	378	0.0	1.0	-1.0
4	765 kV	SASARAM-FATEHPUR	1	0	336	0.0	4.7	-4.7
5	765 kV	GAYA-BALIA	1	0	638	0.0	6.5	-6.5
6	400 kV	PUSAULI-VARANASI	1	53	60	0.0	0.4	-0.4
7	400 kV	PUSAULI -ALLAHABAD	1	8	84	0.0	0.7	-0.7
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	0	811	0.0	11.5	-11.5
9	400 kV	PATNA-BALIA	2	0	729	0.0	9.9	-9.9
10	400 kV	NAUBATPUR-BALIA	2	0	792	0.0	10.5	-10.5
11	400 kV	BIHARSHARIFF-BALIA	2	6	395	0.0	3.5	-3.5
12	400 kV	MOTTHARI-GORAKHPUR	2	0	526	0.0	7.6	-7.6
13	400 kV	BIHARSHARIFF-VARANASI	2	194	242	0.0	0.6	-0.6
14	220 kV	SAHUPURI-KARAMNANA	1	2	97	0.0	1.2	-1.2
15	132 kV	NAGAR UNTARI-RIHAND	1	0	0	0.0	0.0	0.0
16	132 kV	GARWAH-RIHAND	1	30	0	0.8	0.0	0.8
17	132 kV	KARMANASA-SAHUPURI	1	0	38	0.0	0.0	0.0
18	132 kV	KARMANASA-CHANDAULI	1	0	0	0.0	0.0	0.0
ER-NR						0.8	94.3	-93.6
Import/Export of ER (With WR)								
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	1049	175	10.1	0.0	10.1
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	1150	732	12.0	0.0	12.0
3	765 kV	JHARSUGUDA-DURG	2	151	365	0.0	2.4	-2.4
4	400 kV	JHARSUGUDA-RAIGARH	4	226	217	0.0	0.8	-0.8
5	400 kV	RANCHI-SIPAT	2	271	206	0.4	0.0	0.4
6	220 kV	BUDHIPADAR-RAIGARH	1	0	90	0.0	1.3	-1.3
7	220 kV	BUDHIPADAR-KORBA	2	97	0	1.1	0.0	1.1
ER-WR						23.6	4.5	19.1
Import/Export of ER (With SR)								
1	HVDC	JEYPORE-GAZUWAKA B/B	2	0	550	0.0	9.5	-9.5
2	HVDC	TALCHER-KOLAR BIPOLE	2	0	1643	0.0	36.8	-36.8
3	765 kV	ANGUL-SRIKAKULAM	2	0	2665	0.0	42.7	-42.7
4	400 kV	TALCHER-I/C	2	156	912	0.0	9.2	-9.2
5	220 kV	BALIMELA-UPPER-SILERRU	1	0	0	0.0	0.0	0.0
ER-SR						0.0	89.1	-89.1
Import/Export of ER (With NER)								
1	400 kV	BINAGURI-BONGAIGAON	2	0	439	0.0	8.3	-8.3
2	400 kV	ALIPURDUAR-BONGAIGAON	2	0	347	0.0	5.3	-5.3
3	220 kV	ALIPURDUAR-SALAKATI	2	0	107	0.0	2.0	-2.0
ER-NER						0.0	15.6	-15.6
Import/Export of NER (With NR)								
1	HVDC	BISWANATH CHARIALI-AGRA	2	0	308	0.0	7.3	-7.3
NER-NR						0.0	7.3	-7.3
Import/Export of WR (With NR)								
1	HVDC	CHAMPA-KURUKSHETRA	2	0	4526	0.0	84.8	-84.8
2	HVDC	VINDHYACHAL B/B	-	445	0	12.2	0.0	12.2
3	HVDC	MUNDRA-MOHINDERGARH	2	264	0	6.0	0.0	6.0
4	765 kV	GWALIOR-AGRA	2	0	2197	0.0	29.3	-29.3
5	765 kV	GWALIOR-PHAGI	2	628	1328	2.4	15.2	-12.8
6	765 kV	JABALPUR-ORAI	2	24	812	0.0	17.3	-17.3
7	765 kV	GWALIOR-ORAI	1	756	0	10.8	0.0	10.8
8	765 kV	SATNA-ORAI	1	0	1009	0.0	18.6	-18.6
9	765 kV	BANASKANTHA-CHITORGARH	2	934	550	5.1	2.7	2.4
10	765 kV	VINDHYACHAL-VARANASI	2	0	3087	0.0	55.2	-55.2
11	400 kV	ZERDA-KANKROLI	1	216	62	1.9	0.2	1.8
12	400 kV	ZERDA -BHINMAL	1	490	74	5.3	0.1	5.2
13	400 kV	VINDHYACHAL -RIHAND	1	963	0	20.0	0.0	20.0
14	400 kV	RAPP-SHUJALPUR	2	390	442	2.6	2.8	-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	2.3	-2.3
17	220 kV	MEHGAON-AURAIYA	1	91	0	0.7	0.0	0.7
18	220 kV	MALANPUR-AURAIYA	1	68	16	0.4	0.0	0.3
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						67.4	228.2	-160.8
Import/Export of WR (With SR)								
1	HVDC	BHADRAWATI B/B	-	698	0	10.9	0.0	10.9
2	HVDC	RAIGARH-PUGALUR	2	0	4014	0.0	26.1	-26.1
3	765 kV	SOLAPUR-RAICHUR	2	2150	1202	11.0	5.5	5.6
4	765 kV	WARDHA-NIZAMABAD	2	0	2560	0.0	35.6	-35.6
5	400 kV	KOLHAPUR-KUDGI	2	1523	0	21.3	0.0	21.3
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	121	2.1	0.0	2.1
WR-SR						45.3	67.2	-21.9

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)	673	539	645	15.48	
	ER	400kV TALA-BINAGURI 1,2,4 (& 400kV MALBASE - BINAGURI) i.e. BINAGURI RECEIPT (from TALA HEP 6*170MW)	1027	989	1027	28.85	
	ER	220kV CHUKHA-BIRPARA 1&2 (& 220kV MALBASE - BIRPARA) i.e. BIRPARA RECEIPT (from CHUKHA HEP 4*84MW)	152	93	126	3.02	
	NER	132kV GELEPHU-SALAKATI	-29	-4	-23	-0.56	
	NER	132kV MOTANGA-RANGIA	-62	-8	-40	-0.95	
NEPAL	NR	132kV MAHENDRANAGAR-TANAKPUR(NHPC)	-67	0	-25	-0.61	
	ER	NEPAL IMPORT (FROM BIHAR)	0	0	0	0.00	
	ER	400kV DHALKEBAR-MUZAFFARPUR 1&2	378	225	333	7.99	
BANGLADESH	ER	BHERAMARA B/B HVDC (B'DESH)	-928	-582	-700	-16.81	
	ER (Isolated from Indian Grid)	400kV GODDA_TPS-RAHANPUR (B'DESH) D/C	-582	-455	-511	-12.27	
	NER	132kV COMILLA-SURAJMANI NAGAR 1&2	-146	0	-127	-3.04	