



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: 21th 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 20.06.2023.

महोदय/Dear Sir,

आईईजीसी-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 20-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 20th June 2023, is available at the NLDC website.

धन्यवाद,

Report for previous day

Date of Reporting: 21-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)	68263	60684	47012	25113	2659	203731
Peak Shortage (MW)	80	0	0	0	9	89
Energy Met (MU)	1546	1459	1157	579	49	4790
Hydro Gen (MU)	377	33	46	115	29	600
Wind Gen (MU)	63	130	118	-	-	311
Solar Gen (MU)*	133.98	57.23	105.04	3.15	0.57	300
Energy Shortage (MU)	1.64	2.00	0.00	0.52	1.20	5.36
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	71327	64709	53769	27625	2689	214640
Time Of Maximum Demand Met	22:18	15:21	12:34	23:28	18:43	14:47

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	0.035	0.00	0.00	3.48	3.48	74.02	22.50

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	14834	0	291.6	159.4	0.5	346	0.00
	Haryana	10739	245	230.3	166.0	1.0	408	1.06
	Rajasthan	11616	0	247.5	31.6	-4.9	97	0.00
	Delhi	6304	0	128.7	114.6	-1.3	240	0.00
	UP	24616	0	498.2	245.8	-2.8	513	0.00
	Uttarakhand	2409	0	52.5	24.7	-2.3	45	0.00
	HP	1541	1	32.7	-3.8	0.4	176	0.06
	J&K(UT) & Ladakh(UT)	2427	0	52.8	25.9	0.6	175	0.52
	Chandigarh	381	0	7.4	7.2	0.2	39	0.00
Railways_NR ISTS	195	0	4.0	3.3	0.7	54	0.00	
WR	Chhattisgarh	5289	0	120.4	64.0	-0.4	385	0.20
	Gujarat	17370	0	385.6	170.9	-4.6	573	0.00
	MP	11427	0	243.3	113.8	-4.2	266	0.00
	Maharashtra	28469	0	633.4	229.2	3.2	1035	1.80
	Goa	729	0	15.2	14.6	0.1	153	0.00
	DNHDDPDCL	1299	0	30.3	30.3	0.0	78	0.00
	AMNSIL	858	0	18.3	7.6	0.1	284	0.00
	BALCO	522	0	12.4	12.3	0.1	70	0.00
SR	Andhra Pradesh	11742	0	235.7	81.0	0.1	900	0.00
	Telangana	11417	0	230.1	110.3	-0.3	637	0.00
	Karnataka	12742	0	253.5	85.1	-0.3	881	0.00
	Kerala	4048	0	82.6	66.1	2.2	291	0.00
	Tamil Nadu	16398	0	345.7	178.1	-3.2	394	0.00
	Puducherry	409	0	9.3	9.3	-0.7	44	0.00
ER	Bihar	6397	0	133.8	126.4	-2.3	318	0.52
	DVC	3538	0	76.2	-46.6	-0.6	337	0.00
	Jharkhand	1692	0	37.0	30.2	-1.8	160	0.00
	Odisha	5836	0	123.8	53.4	-2.8	309	0.00
	West Bengal	10128	0	206.8	76.9	-2.2	568	0.00
	Sikkim	88	0	1.2	1.3	-0.1	28	0.00
	Railways_ER ISTS	22	0	0.2	0.3	-0.1	0	0.00
NER	Arunachal Pradesh	142	0	2.7	2.5	-0.1	44	0.00
	Assam	1695	0	30.8	24.5	-0.1	165	0.00
	Manipur	167	0	2.3	2.4	-0.1	16	0.00
	Meghalaya	326	9	4.6	1.9	-0.3	51	1.20
	Mizoram	106	0	1.6	1.6	-0.4	7	0.00
	Nagaland	154	0	2.6	2.3	-0.1	14	0.00
	Tripura	258	0	4.5	5.1	0.0	94	0.00

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

	Bhutan	Nepal	Bangladesh	Godda -> Bangladesh
Actual (MU)	43.3	5.2	-25.1	-23.5
Day Peak (MW)	1956.0	6.5	-1100.0	-1124.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	224.8	-185.8	134.8	-158.8	-15.0	0.0
Actual(MU)	193.8	-184.3	168.6	-165.9	-14.4	-2.2
O/D/U/D(MU)	-31.0	1.5	33.8	-7.1	0.7	-2.2

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL	% Share
Central Sector	1011	9765	6138	1150	455	18519	46
State Sector	6105	10644	3978	1050	220	21996	54
Total	7116	20409	10116	2200	675	40515	100

G. Sourcwise generation (Gross) (MU)

	NR	WR	SR	ER	NER	All India	% Share
Coal	757	1448	657	687	14	3563	69
Lignite	28	17	60	0	0	106	2
Hydro	377	33	46	115	29	600	12
Nuclear	29	32	51	0	0	112	2
Gas, Naptha & Diesel	42	49	6	0	28	126	2
RES (Wind, Solar, Biomass & Others)	204	188	244	3	1	640	12
Total	1437	1767	1065	805	71	5146	100

Share of RES in total generation (%)	14.17	10.63	22.93	0.42	0.80	12.46
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	42.42	14.32	32.07	14.91	41.62	26.35

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.025
Based on State Max Demands	1.063

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

	Max Demand Met(MW)	Time	Shortage(MW)
Solar hr	214640	14:47	47
Non-Solar hr	209069	22:16	965

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: 21-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	1001	0.0	23.6	-23.6
2	HVDC	PUSAULI B/B	-	0	97	0.0	2.3	-2.3
3	765 kV	GAYA-VARANASI	2	163	303	0.0	3.0	-3.0
4	765 kV	SASARAM-FATEHPUR	1	57	412	0.0	5.7	-5.7
5	765 kV	GAYA-BALIA	1	0	782	0.0	10.7	-10.7
6	400 kV	PUSAULI-VARANASI	1	0	107	0.0	1.5	-1.5
7	400 kV	PUSAULI -ALLAHABAD	1	4	87	0.0	0.8	-0.8
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	0	1003	0.0	15.2	-15.2
9	400 kV	PATNA-BALIA	2	0	690	0.0	12.2	-12.2
10	400 kV	NAUBATPUR-BALIA	2	0	722	0.0	12.3	-12.3
11	400 kV	BIHARSHARIFF-BALIA	2	0	457	0.0	7.2	-7.2
12	400 kV	MOTIHARI-GORAKHPUR	2	0	550	0.0	10.3	-10.3
13	400 kV	BIHARSHARIFF-VARANASI	2	77	306	0.0	3.9	-3.9
14	220 kV	SAHUPURI-KARAMNANA	1	0	207	0.0	4.1	-4.1
15	132 kV	NAGAR UNTARI-RIHAND	1	0	0	0.0	0.0	0.0
16	132 kV	GARWAH-RIHAND	1	25	0	1.0	0.0	1.0
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						1.0	112.7	-111.8
Import/Export of ER (With WR)								
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	1721	0	27.7	0.0	27.7
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	908	853	2.9	0.0	2.9
3	765 kV	JHARSUGUDA-DURG	2	0	808	0.0	8.2	-8.2
4	400 kV	JHARSUGUDA-RAIGARH	4	0	576	0.0	8.1	-8.1
5	400 kV	RANCHI-SIPAT	2	121	295	0.0	2.0	-2.0
6	220 kV	BUDHIPADAR-RAIGARH	1	0	44	0.0	1.7	-1.7
7	220 kV	BUDHIPADAR-KORBA	2	103	0	1.3	0.0	1.3
ER-WR						31.8	20.1	11.8
Import/Export of ER (With SR)								
1	HVDC	JEYPORE-GAZUWAKA B/B	2	0	229	0.0	4.9	-4.9
2	HVDC	TALCHER-KOLAR BIPOLE	2	0	1984	0.0	45.6	-45.6
3	765 kV	ANGUL-SRIKAKULAM	2	0	3220	0.0	53.5	-53.5
4	400 kV	TALCHER-I/C	2	0	713	0.0	12.9	-12.9
5	220 kV	BALIMELA-UPPER-SILERRU	1	0	0	0.0	0.0	0.0
ER-SR						0.0	104.0	-104.0
Import/Export of ER (With NER)								
1	400 kV	BINAGURI-BONGAIGAON	2	186	260	0.9	0.0	0.9
2	400 kV	ALIPURDUAR-BONGAIGAON	2	452	233	3.3	0.0	3.3
3	220 kV	ALIPURDUAR-SALAKATI	2	49	90	0.0	0.2	-0.2
ER-NER						4.3	0.2	4.1
Import/Export of NER (With NR)								
1	HVDC	BISWANATH CHARIALI-AGRA	2	0	504	0.0	12.1	-12.1
NER-NR						0.0	12.1	-12.1
Import/Export of WR (With NR)								
1	HVDC	CHAMPA-KURUKSHETRA	2	0	2016	0.0	46.8	-46.8
2	HVDC	VINDHYACHAL B/B	-	448	152	6.0	0.5	5.5
3	HVDC	MUNDRA-MOHINDERGARH	2	311	979	0.0	6.7	-6.7
4	765 kV	GWALIOR-AGRA	2	469	2115	0.7	18.6	-17.9
5	765 kV	GWALIOR-PHAGI	2	591	1343	2.6	9.6	-7.0
6	765 kV	JABALPUR-ORAI	2	202	959	0.0	15.1	-15.1
7	765 kV	GWALIOR-ORAI	1	519	0	6.6	0.0	6.6
8	765 kV	SATNA-ORAI	1	0	1044	0.0	18.9	-18.9
9	765 kV	BANASKANTHA-CHITORGARH	2	2318	135	30.0	0.1	29.9
10	765 kV	VINDHYACHAL-VARANASI	2	0	3034	0.0	46.6	-46.6
11	400 kV	ZERDA-KANKROLI	1	620	0	8.1	0.0	8.1
12	400 kV	ZERDA -BHINMAL	1	917	14	8.0	0.0	8.0
13	400 kV	VINDHYACHAL -RIHAND	1	961	0	21.8	0.0	21.8
14	400 kV	RAPP-SHUJALPUR	2	678	316	7.4	1.0	6.4
15	220 kV	BHANPURA-RANPUR	1	0	0	0.0	0.0	0.0
16	220 kV	BHANPURA-MORAK	1	0	30	0.0	2.0	-2.0
17	220 kV	MEHGAON-AURAIYA	1	82	40	1.0	0.0	1.0
18	220 kV	MALANPUR-AURAIYA	1	75	44	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						93.0	165.9	-72.9
Import/Export of WR (With SR)								
1	HVDC	BHADRAWATI B/B	-	0	1009	0.0	17.5	-17.5
2	HVDC	RAIGARH-PUGALUR	2	0	4017	0.0	70.7	-70.7
3	765 kV	SOLAPUR-RAICHUR	2	1189	1692	6.9	6.3	0.7
4	765 kV	WARDHA-NIZAMABAD	2	0	2993	0.0	40.0	-40.0
5	400 kV	KOLHAPUR-KUDGI	2	1508	0	25.4	0.0	25.4
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	0	123	2.3	0.0	2.3
WR-SR						34.7	134.4	-99.6

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)	685	492	631	15.14	
	ER	400kV TALA-BINAGURI 1,2,4 (& 400kV MALBASE - BINAGURI) i.e. BINAGURI RECEIPT (from TALA HEP 6*170MW)	1100	0	1043	25.03	
	ER	220kV CHUKHA-BIRPARA 1&2 (& 220kV MALBASE - BIRPARA) i.e. BIRPARA RECEIPT (from CHUKHA HEP 4*84MW)	212	140	168	4.04	
	NER	132kV GELEPHU-SALAKATI	-33	-13	-24	-0.57	
	NER	132kV MOTANGA-RANGIA	-20	-11	-15	-0.37	
NEPAL	NR	132kV MAHENDRANAGAR-TANAKPUR(NHPC)	-75	0	-42	-1.00	
	ER	NEPAL IMPORT (FROM BIHAR)	-61	-5	-28	-0.68	
	ER	400kV DHALKEBAR-MUZAFFARPUR 1&2	142	0	142	6.91	
BANGLADESH	ER	BHERAMARA B/B HVDC (B'DESH)	-930	-779	-897	-21.53	
	ER (Isolated from Indian Grid)	400kV GODDA_TPS-RAHANPUR (B'DESH) D/C	-1124	-686	-979	-23.49	
	NER	132kV COMILLA-SURAJMANI NAGAR 1&2	-170	0	-149	-3.57	