



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: 14th 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 13.06.2023.

महोदय/Dear Sir,

आईईजीसी-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 13-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 13th June 2023, is available at the NLDC website.

धन्यवाद,

Report for previous day

Date of Reporting: 14-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)	68031	59347	48237	26110	3042	204767
Peak Shortage (MW)	76	0	0	302	34	412
Energy Met (MU)	1621	1462	1181	590	59	4914
Hydro Gen (MU)	324	23	58	77	28	510
Wind Gen (MU)	46	237	220	-	-	503
Solar Gen (MU)*	131.94	58.77	129.42	2.21	0.99	323
Energy Shortage (MU)	2.69	0.00	0.00	1.94	1.33	5.96
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	72058	63863	54416	27903	3099	215352
Time Of Maximum Demand Met	23:09	00:00	16:00	23:33	19:11	15:28

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	0.077	0.00	0.60	4.28	4.88	58.86	36.26

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	10947	0	220.3	114.3	0.5	1287	0.00
	Haryana	10462	200	226.6	160.7	-5.6	184	1.44
	Rajasthan	15770	0	332.2	99.0	-2.5	284	0.00
	Delhi	7043	0	143.6	129.5	-1.7	233	0.00
	UP	27292	0	551.2	271.5	-1.2	580	0.00
	Uttarakhand	2413	0	53.5	24.5	-1.4	183	0.00
	HP	1550	13	29.7	-4.2	-0.2	145	0.44
	J&K(UT) & Ladakh(UT)	2697	0	53.4	27.1	0.1	376	0.81
	Chandigarh	383	0	6.9	7.1	-0.2	44	0.00
Railways_NR ISTS	189	0	4.1	3.4	0.7	44	0.00	
WR	Chhattisgarh	4908	0	111.9	52.6	-1.5	244	0.00
	Gujarat	18231	0	397.1	131.5	-1.9	1204	0.00
	MP	11837	0	264.5	146.2	-3.8	305	0.00
	Maharashtra	27111	0	615.2	213.4	0.5	766	0.00
	Goa	729	0	15.0	15.2	-0.7	29	0.00
	DNHDDPDCL	1277	0	28.8	29.6	-0.8	181	0.00
	AMNSIL	807	0	17.4	8.4	0.0	239	0.00
	BALCO	519	0	12.4	12.5	-0.1	515	0.00
SR	Andhra Pradesh	12366	0	250.7	76.0	-0.4	600	0.00
	Telangana	10555	0	212.8	84.6	0.8	763	0.00
	Karnataka	12867	0	256.3	75.2	2.7	928	0.00
	Kerala	3916	0	76.8	58.1	1.0	289	0.00
	Tamil Nadu	17190	0	374.0	162.0	-7.7	345	0.00
	Puducherry	473	0	10.8	10.2	-0.2	72	0.00
ER	Bihar	6320	146	139.0	128.1	-0.5	251	1.94
	DVC	3535	0	78.3	-41.8	0.6	356	0.00
	Jharkhand	1802	0	37.3	35.0	-2.7	139	0.00
	Odisha	6121	0	116.0	54.6	-3.6	280	0.00
	West Bengal	11060	0	217.7	91.9	-3.6	187	0.00
	Sikkim	101	0	1.5	1.4	0.0	41	0.00
	Railways_ER ISTS	17	0	0.2	0.3	0.0	7	0.00
NER	Arunachal Pradesh	162	0	2.9	2.8	-0.2	28	0.00
	Assam	2054	0	39.5	33.2	-0.4	126	0.00
	Manipur	163	0	2.4	2.7	-0.3	14	0.00
	Meghalaya	327	34	4.8	1.3	-0.3	40	1.33
	Mizoram	113	0	1.9	1.8	-0.2	10	0.00
	Nagaland	164	0	2.7	2.6	-0.1	20	0.00
Tripura	310	0	5.3	5.3	0.2	86	0.00	

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

	Bhutan	Nepal	Bangladesh	Godda -> Bangladesh
Actual (MU)	6.9	4.0	-25.0	-15.5
Day Peak (MW)	435.8	218.8	-1107.0	-1086.9

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	320.6	-308.2	58.5	-71.3	0.4	0.0
Actual(MU)	293.6	-322.7	90.0	-64.4	-0.4	-3.9
O/D/U/D(MU)	-27.0	-14.5	31.5	6.9	-0.7	-3.9

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL	% Share
Central Sector	1544	7907	5428	1590	818	17287	41
State Sector	4115	12103	6188	2500	283	25189	59
Total	5659	20010	11616	4090	1101	42475	100

G. Sourcewise generation (Gross) (MU)

	NR	WR	SR	ER	NER	All India	% Share
Coal	803	1478	629	646	15	3570	68
Lignite	24	18	55	0	0	97	2
Hydro	324	23	58	77	28	510	10
Nuclear	29	33	45	0	0	107	2
Gas, Naptha & Diesel	44	62	6	0	23	135	3
RES (Wind, Solar, Biomass & Others)	186	297	374	3	1	861	16
Total	1410	1911	1166	726	67	5280	100

Share of RES in total generation (%)	13.21	15.56	32.04	0.36	1.47	16.30
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	38.25	18.48	40.88	10.98	43.48	27.99

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.027
Based on State Max Demands	1.085

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

	Max Demand Met(MW)	Time	Shortage(MW)
Solar hr	215352	15:28	320
Non-Solar hr	213456	23:01	869

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: 14-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	2.5	-2.5
3	765 kV	GAYA-VARANASI	2	767	304	4.0	0.0	4.0
4	765 kV	SASARAM-FATEHPUR	1	230	299	0.0	2.2	-2.2
5	765 kV	GAYA-BALIA	1	0	670	0.0	10.5	-10.5
6	400 kV	PUSAULI-VARANASI	1	0	108	0.0	1.6	-1.6
7	400 kV	PUSAULI -ALLAHABAD	1	12	78	0.0	0.7	-0.7
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	117	835	0.0	12.1	-12.1
9	400 kV	PATNA-BALIA	2	62	503	0.0	6.7	-6.7
10	400 kV	NAUBATPUR-BALIA	2	117	517	0.0	6.6	-6.6
11	400 kV	BIHARSHARIFF-BALIA	2	152	375	0.0	4.2	-4.2
12	400 kV	MOTIHARI-GORAKHPUR	2	145	413	0.0	5.4	-5.4
13	400 kV	BIHARSHARIFF-VARANASI	2	269	222	0.0	0.3	-0.3
14	220 kV	SAHUPURI-KARAMNANA	1	0	199	0.0	3.7	-3.7
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						4.7	56.6	-51.9
Import/Export of ER (With WR)								
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	889	378	4.8	0.0	4.8
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	1780	52	22.0	0.0	22.0
3	765 kV	JHARSUGUDA-DURG	2	0	715	0.0	9.0	-9.0
4	400 kV	JHARSUGUDA-RAIGARH	4	31	456	0.0	5.5	-5.5
5	400 kV	RANCHI-SIPAT	2	426	94	4.3	0.0	4.3
6	220 kV	BUDHIPADAR-RAIGARH	1	0	86	0.0	1.7	-1.7
7	220 kV	BUDHIPADAR-KORBA	2	190	0	2.9	0.0	2.9
ER-WR						33.9	16.3	17.7
Import/Export of ER (With SR)								
1	HVDC	JEYPORE-GAZUWAKA B/B	2	406	0	7.7	0.0	7.7
2	HVDC	TALCHER-KOLAR BIPOLE	2	0	995	0.0	24.1	-24.1
3	765 kV	ANGUL-SRIKAKULAM	2	0	2969	0.0	52.8	-52.8
4	400 kV	TALCHER-I/C	2	407	124	6.1	0.0	6.1
5	220 kV	BALIMELA-UPPER-SILERRU	1	0	0	0.0	0.0	0.0
ER-SR						7.7	76.9	-69.2
Import/Export of ER (With NER)								
1	400 kV	BINAGURI-BONGAIGAON	2	289	158	2.3	0.3	2.0
2	400 kV	ALIPURDUAR-BONGAIGAON	2	442	206	3.1	0.0	3.1
3	220 kV	ALIPURDUAR-SALAKATI	2	76	42	0.3	0.0	0.3
ER-NER						5.7	0.3	5.4
Import/Export of NER (With NR)								
1	HVDC	BISWANATH CHARIALI-AGRA	2	189	0	4.5	0.0	4.5
NER-NR						4.5	0.0	4.5
Import/Export of WR (With NR)								
1	HVDC	CHAMPA-KURUKSHETRA	2	0	5045	0.0	108.2	-108.2
2	HVDC	VINDHYACHAL B/B	-	446	0	7.7	0.0	7.7
3	HVDC	MUNDRA-MOHINDERGARH	2	0	974	0.0	11.7	-11.7
4	765 kV	GWALIOR-AGRA	2	0	2049	0.0	34.1	-34.1
5	765 kV	GWALIOR-PHAGI	2	687	881	2.4	10.1	-7.7
6	765 kV	JABALPUR-ORAI	2	0	983	0.0	29.9	-29.9
7	765 kV	GWALIOR-ORAI	1	550	0	9.1	0.0	9.1
8	765 kV	SATNA-ORAI	1	0	998	0.0	20.4	-20.4
9	765 kV	BANASKANTHA-CHITORGARH	2	948	989	1.0	9.3	-8.3
10	765 kV	VINDHYACHAL-VARANASI	2	0	3641	0.0	70.1	-70.1
11	400 kV	ZERDA-KANKROLI	1	90	126	0.2	1.0	-0.8
12	400 kV	ZERDA -BHINMAL	1	300	136	1.9	0.5	1.4
13	400 kV	VINDHYACHAL -RIHAND	1	957	0	21.1	0.0	21.1
14	400 kV	RAPP-SHUJALPUR	2	299	300	1.6	1.9	-0.3
15	220 kV	BHANPURA-RANPUR	1	0	0	0.0	0.0	0.0
16	220 kV	BHANPURA-MORAK	1	0	30	0.0	2.7	-2.7
17	220 kV	MEHGAON-AURAIYA	1	96	0	1.3	0.0	1.3
18	220 kV	MALANPUR-AURAIYA	1	67	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						47.0	299.9	-252.9
Import/Export of WR (With SR)								
1	HVDC	BHADRAWATI B/B	-	0	1004	0.0	9.3	-9.3
2	HVDC	RAIGARH-PUGALUR	2	0	3007	0.0	36.3	-36.3
3	765 kV	SOLAPUR-RAICHUR	2	2062	1248	10.4	6.4	4.0
4	765 kV	WARDHA-NIZAMABAD	2	41	2269	0.0	34.6	-34.6
5	400 kV	KOLHAPUR-KUDGI	2	1406	0	22.2	0.0	22.2
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	128	1.9	0.0	1.9
WR-SR						34.6	86.6	-52.0

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)	271	141	204	4.90
	ER	400kV TALA-BINAGURI 1,2,4 (& 400kV MALBASE - BINAGURI) i.e. BINAGURI RECEIPT (from TALA HEP 6*170MW)	169	99	131	3.15
	ER	220kV CHUKHA-BIRPARA 1&2 (& 220kV MALBASE - BIRPARA) i.e. BIRPARA RECEIPT (from CHUKHA HEP 4*84MW)	-132	-54	-88	-2.11
	NER	132kV GELEPHU-SALAKATI	-5	5	0	-0.01
	NER	132kV MOTANGA-RANGIA	54	21	39	0.93
NEPAL	NR	132kV MAHENDRANAGAR-TANAKPUR(NHPC)	-78	0	-54	-1.29
	ER	NEPAL IMPORT (FROM BIHAR)	-52	-13	-22	-0.52
	ER	400kV DHALKEBAR-MUZAFFARPUR 1&2	349	91	243	5.83
BANGLADESH	ER	BHERAMARA B/B HVDC (B'DESH)	-927	-728	-891	-21.38
	ER (Isolated from Indian Grid)	400kV GODDA_TPS-RAHANPUR (B'DESH) D/C	-1087	0	-645	-15.48
	NER	132kV COMILLA-SURAJMANI NAGAR 1&2	-180	0	-153	-3.67