



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: 25th 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 24.06.2023.

महोदय/Dear Sir,

आईईजीसी-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 24-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 24th June 2023, is available at the NLDC website.

धन्यवाद,

Report for previous day

Date of Reporting: 25-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)	72024	55187	44838	25702	3239	200990
Peak Shortage (MW)	75	0	0	111	23	209
Energy Met (MU)	1690	1368	1062	575	62	4756
Hydro Gen (MU)	393	31	40	98	27	589
Wind Gen (MU)	42	105	206	-	-	352
Solar Gen (MU)*	138.65	42.09	87.88	2.28	1.27	272
Energy Shortage (MU)	0.95	0.14	0.00	0.35	1.14	2.58
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	75869	60548	49437	27329	3287	209620
Time Of Maximum Demand Met	00:00	11:16	10:44	00:01	19:53	11:55

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	0.029	0.00	0.00	3.28	3.28	77.57	19.15

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	15256	0	343.5	203.1	-1.4	157	0.00
	Haryana	11539	0	251.2	186.6	-3.8	55	0.00
	Rajasthan	14733	0	311.9	79.3	-3.9	202	0.00
	Delhi	6829	0	136.4	123.7	-3.0	185	0.00
	UP	24881	0	498.1	248.5	-2.7	414	0.00
	Uttarakhand	2280	0	51.1	23.3	-1.7	6	0.00
	HP	1536	0	32.8	-5.4	-1.0	38	0.09
	J&K(UT) & Ladakh(UT)	2592	75	54.5	26.8	2.1	224	0.86
	Chandigarh	320	0	6.7	6.8	-0.1	33	0.00
Railways_NR ISTS	189	0	4.2	3.4	0.8	60	0.00	
WR	Chhattisgarh	4648	0	102.5	55.6	-0.7	553	0.14
	Gujarat	18914	0	410.9	197.8	-2.4	726	0.00
	MP	9745	0	215.0	112.2	-4.7	404	0.00
	Maharashtra	25478	0	564.2	210.3	-2.0	686	0.00
	Goa	630	0	14.0	13.9	-0.4	36	0.00
	DNHDDPDCL	1310	0	30.7	30.8	-0.1	42	0.00
	AMNSIL	795	0	18.0	10.5	0.2	270	0.00
	BALCO	523	0	12.5	12.5	0.0	7	0.00
SR	Andhra Pradesh	9279	0	206.6	41.2	-3.3	524	0.00
	Telangana	8738	0	179.5	74.3	-1.2	710	0.00
	Karnataka	11504	0	221.8	63.8	-0.7	705	0.00
	Kerala	4081	0	82.5	69.1	1.9	432	0.00
	Tamil Nadu	16779	0	361.6	145.0	-3.5	515	0.00
	Puducherry	456	0	10.2	9.7	-0.3	28	0.00
ER	Bihar	6714	0	142.5	139.4	-2.1	226	0.35
	DVC	3518	0	78.1	-48.2	-0.2	311	0.00
	Jharkhand	1805	0	35.9	33.2	-2.1	230	0.00
	Odisha	4810	0	106.8	38.9	-3.2	267	0.00
	West Bengal	10288	0	209.8	75.1	-2.1	226	0.00
	Sikkim	86	0	1.3	1.5	-0.2	10	0.00
	Railways_ER ISTS	20	0	0.1	0.2	-0.1	4	0.00
NER	Arunachal Pradesh	164	0	2.6	2.2	0.2	38	0.00
	Assam	2132	0	41.6	34.3	0.3	131	0.00
	Manipur	184	0	2.6	2.5	0.1	27	0.00
	Meghalaya	340	23	4.8	1.4	0.0	79	1.14
	Mizoram	111	0	1.9	1.6	-0.1	16	0.00
	Nagaland	163	0	2.7	2.4	0.0	28	0.00
	Tripura	306	0	5.5	5.5	0.2	57	0.00

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

	Bhutan	Nepal	Bangladesh	Godda -> Bangladesh
Actual (MU)	21.8	5.7	-25.5	-18.0
Day Peak (MW)	1041.5	389.6	-1111.0	-817.1

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	330.9	-226.0	26.4	-131.9	0.6	0.0
Actual(MU)	292.1	-229.2	32.4	-109.5	4.3	-9.9
O/D/U/D(MU)	-38.8	-3.2	6.1	22.4	3.8	-9.8

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL	% Share
Central Sector	925	7195	5998	1460	1118	16696	43
State Sector	4215	11020	5368	1550	251	22404	57
Total	5140	18215	11366	3010	1369	39099	100

G. Sourcewise generation (Gross) (MU)

	NR	WR	SR	ER	NER	All India	% Share
Coal	804	1433	629	645	14	3525	69
Lignite	29	17	56	0	0	103	2
Hydro	393	31	40	98	27	589	11
Nuclear	29	46	51	0	0	127	2
Gas, Naptha & Diesel	46	49	7	0	23	124	2
RES (Wind, Solar, Biomass & Others)	188	148	317	3	1	657	13
Total	1489	1723	1100	746	65	5124	100

Share of RES in total generation (%)	12.62	8.57	28.82	0.38	1.96	12.82
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	40.96	13.04	37.12	13.54	43.07	26.78

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.032
Based on State Max Demands	1.067

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

	Max Demand Met(MW)	Time	Shortage(MW)
Solar hr	209620	11:55	100
Non-Solar hr	207570	0:00	191

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: 25-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	1501	0.0	24.6	-24.6
2	HVDC	PUSAULI B/B	-	0	97	0.0	2.3	-2.3
3	765 kV	GAYA-VARANASI	2	477	257	1.3	0.0	1.3
4	765 kV	SASARAM-FATEHPUR	1	209	357	0.0	2.2	-2.2
5	765 kV	GAYA-BALIA	1	0	803	0.0	13.0	-13.0
6	400 kV	PUSAULI-VARANASI	1	0	122	0.0	1.6	-1.6
7	400 kV	PUSAULI -ALLAHABAD	1	19	109	0.0	0.7	-0.7
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	42	725	0.0	8.4	-8.4
9	400 kV	PATNA-BALIA	2	0	570	0.0	7.4	-7.4
10	400 kV	NAUBATPUR-BALIA	2	0	598	0.0	7.4	-7.4
11	400 kV	BIHARSHARIFF-BALIA	2	100	375	0.0	3.2	-3.2
12	400 kV	MOTTHARI-GORAKHPUR	2	26	403	0.0	5.0	-5.0
13	400 kV	BIHARSHARIFF-VARANASI	2	257	219	0.0	0.4	-0.4
14	220 kV	SAHUPURI-KARAMNANA	1	0	125	0.0	1.4	-1.4
15	132 kV	NAGAR UNTARI-RIHAND	1	0	0	0.0	0.0	0.0
16	132 kV	GARWAH-RIHAND	1	0	0	0.8	0.0	0.8
17	132 kV	KARMANASA-SAHUPURI	1	0	55	0.0	0.0	0.0
18	132 kV	KARMANASA-CHANDAULI	1	0	0	0.0	0.0	0.0
ER-NR						2.1	77.7	-75.6
Import/Export of ER (With WR)								
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	959	255	9.9	0.0	9.9
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	1529	221	22.9	0.0	22.9
3	765 kV	JHARSUGUDA-DURG	2	22	405	0.0	3.2	-3.2
4	400 kV	JHARSUGUDA-RAIGARH	4	8	464	0.0	4.4	-4.4
5	400 kV	RANCHI-SIPAT	2	342	188	3.5	0.0	3.5
6	220 kV	BUDHIPADAR-RAIGARH	1	0	44	0.0	1.2	-1.2
7	220 kV	BUDHIPADAR-KORBA	2	114	0	1.4	0.0	1.4
ER-WR						37.7	8.8	28.9
Import/Export of ER (With SR)								
1	HVDC	JEYPORE-GAZUWAKA B/B	2	0	234	0.0	5.1	-5.1
2	HVDC	TALCHER-KOLAR BIPOLE	2	0	1243	0.0	29.8	-29.8
3	765 kV	ANGUL-SRIKAKULAM	2	0	2655	0.0	40.7	-40.7
4	400 kV	TALCHER-I/C	2	216	455	0.9	0.0	0.9
5	220 kV	BALIMELA-UPPER-SILERRU	1	0	0	0.0	0.0	0.0
ER-SR						0.0	75.6	-75.6
Import/Export of ER (With NER)								
1	400 kV	BINAGURI-BONGAIGAON	2	0	641	0.0	9.3	-9.3
2	400 kV	ALIPURDUAR-BONGAIGAON	2	121	702	0.0	8.1	-8.1
3	220 kV	ALIPURDUAR-SALAKATI	2	0	151	0.0	1.8	-1.8
ER-NER						0.0	19.2	-19.2
Import/Export of NER (With NR)								
1	HVDC	BISWANATH CHARIALI-AGRA	2	0	703	0.0	16.9	-16.9
NER-NR						0.0	16.9	-16.9
Import/Export of WR (With NR)								
1	HVDC	CHAMPA-KURUKSHETRA	2	0	6050	0.0	92.4	-92.4
2	HVDC	VINDHYACHAL B/B	-	45	254	1.2	0.1	1.1
3	HVDC	MUNDRA-MOHINDERGARH	2	261	975	0.0	1.1	-1.1
4	765 kV	GWALIOR-AGRA	2	0	2159	0.0	29.8	-29.8
5	765 kV	GWALIOR-PHAGI	2	369	1505	0.0	17.7	-17.7
6	765 kV	JABALPUR-ORAI	2	0	1081	0.0	32.6	-32.6
7	765 kV	GWALIOR-ORAI	1	634	0	9.2	0.0	9.2
8	765 kV	SATNA-ORAI	1	0	1140	0.0	21.0	-21.0
9	765 kV	BANASKANTHA-CHITORGARH	2	1507	652	13.6	0.0	13.6
10	765 kV	VINDHYACHAL-VARANASI	2	0	3626	0.0	70.0	-70.0
11	400 kV	ZERDA-KANKROLI	1	295	84	3.1	0.0	3.1
12	400 kV	ZERDA -BHINMAL	1	651	109	7.4	0.0	7.4
13	400 kV	VINDHYACHAL -RIHAND	1	953	0	21.8	0.0	21.8
14	400 kV	RAPP-SHUJALPUR	2	404	417	0.0	0.9	-0.9
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	104	0	1.3	0.0	1.3
18	220 kV	MALANPUR-AURAIYA	1	77	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						58.4	267.9	-209.5
Import/Export of WR (With SR)								
1	HVDC	BHADRAWATI B/B	-	995	305	5.0	0.0	5.0
2	HVDC	RAIGARH-PUGALUR	2	0	606	0.0	14.7	-14.7
3	765 kV	SOLAPUR-RAICHUR	2	2157	880	16.0	0.0	16.0
4	765 kV	WARDHA-NIZAMABAD	2	268	2049	0.0	25.1	-25.1
5	400 kV	KOLHAPUR-KUDGI	2	1501	0	26.7	0.0	26.7
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	119	2.3	0.0	2.3
WR-SR						50.0	39.8	10.2

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)	524	309	416	9.99	
	ER	400kV TALA-BINAGURI 1,2,4 (& 400kV MALBASE - BINAGURI) i.e. BINAGURI RECEIPT (from TALA HEP 6*170MW)	574	407	495	11.87	
	ER	220kV CHUKHA-BIRPARA 1&2 (& 220kV MALBASE - BIRPARA) i.e. BIRPARA RECEIPT (from CHUKHA HEP 4*84MW)	66	19	40	0.96	
	NER	132kV GELEPHU-SALAKATI	-31	-9	-20	-0.49	
	NER	132kV MOTANGA-RANGIA	-32	-11	-22	-0.54	
NEPAL	NR	132kV MAHENDRANAGAR-TANAKPUR(NHPC)	0	0	0	-1.02	
	ER	NEPAL IMPORT (FROM BIHAR)	-44	-5	-13	-0.32	
	ER	400kV DHALKEBAR-MUZAFFARPUR 1&2	508	111	292	7.01	
BANGLADESH	ER	BHERAMARA B/B HVDC (B'DESH)	-931	-794	-902	-21.64	
	ER (Isolated from Indian Grid)	400kV GODDA_TPS-RAHANPUR (B'DESH) D/C	-817	-674	-749	-17.98	
	NER	132kV COMILLA-SURAJMANI NAGAR 1&2	-180	0	-159	-3.82	