National Load Despatch Centre
राष्ट्रीय भार प्रेषण केंद्र
GRID CONTROLLER OF INDIA LIMITED
ग्रिड कंट्रोलर ऑफ इंडिया लिमिटेड
(Government of India Enterprise/ भारत सरकार का उद्यम)
B-9, QUTUB INSTITUTIONAL AREA, KATWARIA SARAI, NEW DELHI -110016
बी-9, क़ुतुब इन्स्टीट्यूशनल एरिया, कटवारिया सराये, न्यू दिल्ली-110016

Ref: POSOCO/NLDC/SO/Daily PSP Report

दिनांक: 27th June 2023

To,

1. कार्यकारी निदेशक, पू.क्षे .भा .प्रे .के.,14 , गोल्फ क्लब रोड , कोलकाता - 700033
   Executive Director, ERLDC, 14 Golf Club Road, Tollygunge, Kolkata, 700033
2. 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
3. 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
4. कार्यकारी निदेशक, ऊ. पू. क्षे. भा. प्रे. के., डोंगतिएह, लोअर नोंग्रह , लापलंग, शिलोंग – 793006
   Executive Director, NERLDC, Dongteih, Lower Nongrah, Lapalang, Shillong - 793006, Meghalaya
5. 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 26.06.2023.

महोदय/Dear Sir,

आई०ई०जी०सी०-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 26-जून-2023 की अखिल भारतीय प्रणाली की दैनिक ग्रिड निष्पादन रिपोर्ट रा०भा०प्रे०के० की वेबसाइट पर उप्लब्ध 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 26th June 2023, is available at the NLDC website.

धन्यवाद,

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

Report for previous day **Date of Reporting: 27-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)	66648	53484	46348	23492	3200	193172
Peak Shortage (MW)	0	0	0	51	13	64
Energy Met (MU)	1419	1262	1049	527	63	4320
Hydro Gen (MU)	382	31	32	103	26	574
Wind Gen (MU)	21	115	224	-	-	360
Solar Gen (MU)*	119.68	33.04	97.47	4.37	1.24	256
Energy Shortage (MU)	0.03	0.00	0.00	0.50	1.02	1.55
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	68581	55874	49116	24970	3305	193289
Time Of Maximum Demand Met	22:34	11:02	11:23	00:00	19:33	22:20

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	0.054	0.20	0.90	6.25	7.35	69.88	22.78

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	12462	0	260.7	166.0	-0.4	224	0.00
	Haryana	9491	0	193.9	141.0	-0.3	233	0.00
	Rajasthan	12113	0	259.1	69.7	-2.6	537	0.00
	Delhi	5460	0	114.1	110.1	-1.7	182	0.00
	UP	24707	0	462.7	240.8	0.8	524	0.00
	Uttarakhand	2109	0	44.9	15.4	-1.4	47	0.00
	HP	1519	0	29.9	-9.5	-0.3	95	0.03
	J&K(UT) & Ladakh(UT)	2280	0	43.7	18.0	-0.6	124	0.00
	Chandigarh	286	0	5.8	6.2	-0.4	25	0.00
	Railways_NR ISTS	202	0	4.2	3.6	0.6	39	0.00
WR	Chhattisgarh	3944	0	87.1	44.6	-2.1	266	0.00
	Gujarat	16960	0	374.6	186.3	-4.0	992	0.00
	MP	9260	0	203.4	106.3	-3.8	262	0.00
	Maharashtra	23687	0	523.6	178.5	-4.6	930	0.00
	Goa	670	0	13.4	13.0	-0.1	95	0.00
	DNHDDPDCL	1272	0	29.3	29.6	-0.3	35	0.00
	AMNSIL	790	0	17.9	10.5	0.2	226	0.00
	BALCO	521	0	12.4	12.5	-0.1	5	0.00
SR	Andhra Pradesh	9285	0	202.0	45.2	-2.0	617	0.00
	Telangana	8967	0	182.8	87.2	0.3	390	0.00
	Karnataka	10887	0	219.1	63.0	-4.3	912	0.00
	Kerala	3895	0	77.0	66.8	0.7	358	0.00
	Tamil Nadu	17328	0	358.2	139.6	-6.2	465	0.00
	Puducherry	468	0	10.0	9.7	-0.4	69	0.00
ER	Bihar	6407	0	129.6	123.0	-2.9	235	0.50
	DVC	3437	0	73.0	-26.8	0.3	322	0.00
	Jharkhand	1650	0	32.6	26.9	-3.2	183	0.00
	Odisha	4864	0	99.8	46.9	-3.7	362	0.00
	West Bengal	8738	0	190.4	66.2	-3.4	136	0.00
	Sikkim	83	0	1.3	1.5	-0.2	5	0.00
	Railways_ER ISTS	10	0	0.1	0.3	-0.2	0	0.00
NER	Arunachal Pradesh	163	0	3.0	3.0	-0.3	28	0.00
	Assam	2188	0	42.1	34.5	0.3	150	0.00
	Manipur	176	0	2.5	2.6	-0.1	17	0.00
	Meghalaya	322	13	5.6	2.3	-0.2	76	1.02
	Mizoram	114	0	1.8	1.7	-0.3	8	0.00
	Nagaland	157	0	2.9	2.7	-0.1	34	0.00
	Tripura	299	0	5.6	5.4	0.1	51	0.00

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

	Bhutan	Nepal	Bangladesh	Godda -> Bangladesh
Actual (MU)	25.3	5.2	-25.5	-21.7
Day Peak (MW)	1587.0	202.6	-1120.0	-1221.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	249.5	-200.9	43.6	-98.3	6.2	0.0
Actual(MU)	227.2	-188.1	39.3	-90.3	7.9	-4.1
O/D/U/D(MU)	-22.3	12.8	-4.3	8.1	1.7	-4.1

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL	% Share
Central Sector	3449	10711	5498	800	818	21276	42
State Sector	7365	12590	6120	3320	241	29636	58
Total	10814	23301	11618	4120	1059	50911	100

G. Sourcewise generation (Gross) (MU)

	NR	WR	SR	ER	NER	All India	% Share
Coal	670	1338	590	584	12	3194	68
Lignite	29	9	53	0	0	91	2
Hydro	382	31	32	103	26	574	12
Nuclear	29	47	51	0	0	127	3
Gas, Naptha & Diesel	15	14	6	0	23	57	1
RES (Wind, Solar, Biomass & Others)	147	149	341	6	1	644	14
Total	1272	1587	1073	692	63	4686	100

Share of RES in total generation (%)	11.55	9.37	31.79	0.82	2.01	13.78
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	43.89	14.25	39.53	15.65	44.22	28.78

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.044
Based on State Max Demands	1.071

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

	Max Demand Met(MW)	Time	Shortage(MW)
Solar hr	190939	11:23	35
Non-Solar hr	193289	22:20	44

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: 27-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	25.3	-25.3
2	HVDC	PUSAULI B/B	-	0	97	0.0	2.4	-2.4
3	765 kV	GAYA-VARANASI	2	324	228	2.7	0.0	2.7
4	765 kV	SASARAM-FATEHPUR	1	106	284	0.0	1.2	-1.2
5	765 kV	GAYA-BALIA	1	0	705	0.0	7.8	-7.8
6	400 kV	PUSAULI-VARANASI	1	0	99	0.0	1.6	-1.6
7	400 kV	PUSAULI -ALLAHABAD	1	0	74	0.0	0.7	-0.7
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	0	643	0.0	8.9	-8.9
9	400 kV	PATNA-BALIA	2	0	527	0.0	6.1	-6.1
10	400 kV	NAUBATPUR-BALIA	2	0	544	0.0	5.8	-5.8
11	400 kV	BIHARSHARIFF-BALIA	2	51	236	0.0	1.3	-1.3
12	400 kV	MOTIHARI-GORAKHPUR	2	0	467	0.0	6.0	-6.0
13	400 kV	BIHARSHARIFF-VARANASI	2	163	201	0.7	0.0	0.7
14	220 kV	SAHUPURI-KARAMNASA	1	0	148	0.0	1.5	-1.5
15	132 kV	NAGAR UNTARI-RIHAND	1	0	0	0.0	0.0	0.0
16	132 kV	GARWAH-RIHAND	1	30	0	0.7	0.0	0.7
17	132 kV	KARMANASA-SAHUPURI	1	0	62	0.0	0.0	0.0
18	132 kV	KARMANASA-CHANDAULI	1	0	0	0.0	0.0	0.0
					ER-NR	4.2	68.7	-64.5
Import/Export of ER (With WR)								
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	1561	0	16.9	0.0	16.9
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	1447	0	20.9	0.0	20.9
3	765 kV	JHARSUGUDA-DURG	2	31	265	0.0	0.4	-0.4
4	400 kV	JHARSUGUDA-RAIGARH	4	155	143	0.0	1.9	-1.9
5	400 kV	RANCHI-SIPAT	2	359	14	4.3	0.0	4.3
6	220 kV	BUDHIPADAR-RAIGARH	1	0	44	0.0	0.9	-0.9
7	220 kV	BUDHIPADAR-KORBA	2	106	0	1.7	0.0	1.7
					ER-WR	43.8	3.2	40.5
Import/Export of ER (With SR)								
1	HVDC	JEYPORE-GAZUWAKA B/B	2	0	244	0.0	5.1	-5.1
2	HVDC	TALCHER-KOLAR BIPOLE	2	0	1985	0.0	31.3	-31.3
3	765 kV	ANGUL-SRIKAKULAM	2	0	2793	0.0	38.3	-38.3
4	400 kV	TALCHER-I/C	2	207	1244	0.0	5.1	-5.1
5	220 kV	BALIMELA-UPPER-SILERRU	1	0	0	0.0	0.0	0.0
					ER-SR	0.0	74.8	-74.8
Import/Export of ER (With NER)								
1	400 kV	BINAGURI-BONGAIGAON	2	0	580	0.0	9.1	-9.1
2	400 kV	ALIPURDUAR-BONGAIGAON	2	154	608	0.0	8.2	-8.2
3	220 kV	ALIPURDUAR-SALAKATI	2	0	129	0.0	2.0	-2.0
					ER-NER	0.0	19.3	-19.3
Import/Export of NER (With NR)								
1	HVDC	BISWANATH CHARIALI-AGRA	2	0	502	0.0	12.0	-12.0
					NER-NR	0.0	12.0	-12.0
Import/Export of WR (With NR)								
1	HVDC	CHAMPA-KURUKSHETRA	2	0	5046	0.0	80.9	-80.9
2	HVDC	VINDHYACHAL B/B	-	315	0	8.5	0.0	8.5
3	HVDC	MUNDRA-MOHINDERGARH	2	264	0	2.9	0.0	2.9
4	765 kV	GWALIOR-AGRA	2	187	2357	0.1	27.9	-27.8
5	765 kV	GWALIOR-PHAGI	2	210	1446	0.4	15.6	-15.2
6	765 kV	JABALPUR-ORAI	2	0	893	0.0	21.0	-21.0
7	765 kV	GWALIOR-ORAI	1	844	0	13.2	0.0	13.2
8	765 kV	SATNA-ORAI	1	0	928	0.0	17.1	-17.1
9	765 kV	BANASKANTHA-CHITORGARH	2	1466	284	18.2	0.5	17.7
10	765 kV	VINDHYACHAL-VARANASI	2	0	3505	0.0	63.0	-63.0
11	400 kV	ZERDA-KANKROLI	1	252	33	3.3	0.1	3.2
12	400 kV	ZERDA -BHINMAL	1	471	69	6.2	0.1	6.1
13	400 kV	VINDHYACHAL -RIHAND	1	956	0	20.3	0.0	20.3
14	400 kV	RAPP-SHUJALPUR	2	341	546	2.7	3.0	-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	1.9	-1.9
17	220 kV	MEHGAON-AURAIYA	1	92	5	0.8	0.0	0.8
18	220 kV	MALANPUR-AURAIYA	1	68	23	0.4	0.1	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	76.9	231.2	-154.2
Import/Export of WR (With SR)								
1	HVDC	BHADRAWATI B/B	-	995	0	10.8	0.0	10.8
2	HVDC	RAIGARH-PUGALUR	2	571	2502	0.0	22.4	-22.4
3	765 kV	SOLAPUR-RAICHUR	2	2152	1308	21.4	3.2	18.2
4	765 kV	WARDHA-NIZAMABAD	2	0	2472	0.0	29.0	-29.0
5	400 kV	KOLHAPUR-KUDGI	2	1594	0	27.0	0.0	27.0
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	2.3	0.0	2.3
					WR-SR	61.4	54.6	6.8

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 MANGDECHU HEP 4*180MW)	0	0	0	8.42
	ER	400kV TALA-BINAGURI 1,2,4 (& 400kV MALBASE - BINAGURI) i.e. BINAGURI RECEIPT (from TALA HEP 6*170MW)	0	0	0	14.07
	ER	220kV CHUKHA-BIRPARA 1&2 (& 220kV MALBASE - BIRPARA) i.e. BIRPARA RECEIPT (from CHUKHA HEP 4*84MW)	0	0	0	1.90
	NER	132kV GELEPHU-SALAKATI	32	7	16	0.38
	NER	132kV MOTANGA-RANGIA	30	7	21	0.50
NEPAL	NR	132kV MAHENDRANAGAR-TANAKPUR(NHPC)	-55	0	-31	-0.74
	ER	NEPAL IMPORT (FROM BIHAR)	-59	-6	-11	-0.26
	ER	400kV DHALKEBAR-MUZAFFARPUR 1&2	317	163	257	6.16
BANGLADESH	ER	BHERAMARA B/B HVDC (B'DESH)	-949	-788	-911	-21.86
	ER (Isolated from Indian Grid)	400kV GODDA_TPS-RAHANPUR (B'DESH) D/C	-1221	-693	-904	-21.70
	NER	132kV COMILLA-SURAJMANI NAGAR 1&2	-171	0	-150	-3.60