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: **3rd 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 02.06.2023.

महोदय/Dear Sir,

आई०ई०जी०सी०-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 02-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 2nd 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: 03-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)	58492	61911	49101	26162	3326	198992
Peak Shortage (MW)	330	0	0	709	114	1153
Energy Met (MU)	1231	1476	1178	610	64	4560
Hydro Gen (MU)	253	50	64	75	10	452
Wind Gen (MU)	11	175	132	-	-	318
Solar Gen (MU)*	128.72	61.74	119.75	5.66	1.23	317
Energy Shortage (MU)	1.54	1.07	0.00	11.86	2.17	16.64
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	58521	68043	55616	28146	3401	206375
Time Of Maximum Demand Met	20:19	15:27	14:59	00:02	19:11	14:59

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	0.060	0.00	1.91	9.15	11.06	71.60	17.34

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	6457	0	139.3	52.6	-0.8	195	0.00
	Haryana	7342	0	149.9	106.5	-2.4	71	0.00
	Rajasthan	11302	0	239.8	44.0	-5.2	167	0.00
	Delhi	4567	0	94.0	90.7	-2.5	56	0.00
	UP	24258	0	473.6	214.6	0.4	403	0.60
	Uttarakhand	2146	0	45.2	24.2	0.4	165	0.45
	HP	1550	0	27.9	1.2	0.1	128	0.00
	J&K(UT) & Ladakh(UT)	2589	250	53.5	26.6	0.9	369	0.49
	Chandigarh	213	0	4.4	4.4	-0.1	28	0.00
	Railways_NR ISTS	177	0	3.9	3.2	0.7	54	0.00
WR	Chhattisgarh	4756	0	107.9	48.7	-1.2	195	0.00
	Gujarat	21048	0	443.2	208.0	0.7	849	0.00
	MP	11718	0	259.0	142.9	-2.1	452	0.00
	Maharashtra	27020	0	593.2	231.9	-0.4	754	1.07
	Goa	717	0	15.8	15.1	0.5	89	0.00
	DNHDDPDCL	1244	0	28.9	29.3	-0.4	151	0.00
	AMNSIL	734	0	15.6	6.5	-0.2	217	0.00
	BALCO	518	0	12.4	12.5	-0.1	5	0.00
SR	Andhra Pradesh	11925	0	243.0	66.8	0.9	986	0.00
	Telangana	10038	0	203.6	89.1	1.3	700	0.00
	Karnataka	11971	0	241.6	64.7	-0.5	647	0.00
	Kerala	4616	0	93.1	66.8	0.5	293	0.00
	Tamil Nadu	18165	0	386.1	190.7	-0.6	493	0.00
	Puducherry	505	0	11.0	10.8	-0.5	97	0.00
ER	Bihar	6484	419	133.4	123.3	-0.2	403	9.72
	DVC	3369	0	74.0	-41.1	0.3	300	0.00
	Jharkhand	1765	0	37.2	30.4	-1.7	261	2.14
	Odisha	6130	0	129.7	53.0	-1.0	442	0.00
	West Bengal	11258	0	233.9	124.0	-3.5	190	0.00
	Sikkim	98	0	2.0	1.7	0.3	42	0.00
	Railways_ER ISTS	8	0	0.1	0.3	-0.2	0	0.00
NER	Arunachal Pradesh	165	0	2.6	2.3	0.3	50	0.00
	Assam	2206	0	43.5	35.2	1.8	313	0.55
	Manipur	182	0	2.5	2.4	0.1	19	0.00
	Meghalaya	329	62	4.6	3.0	0.2	106	1.62
	Mizoram	121	0	1.9	1.8	-0.2	26	0.00
	Nagaland	164	0	2.8	2.8	-0.2	17	0.00
	Tripura	343	0	6.6	6.2	1.0	146	0.00

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

	Bhutan	Nepal	Bangladesh	Godda -> Bangladesh
Actual (MU)	10.5	-7.1	-25.2	-25.5
Day Peak (MW)	889.0	-558.0	-1095.0	-1129.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	129.7	-219.1	96.6	-25.6	18.4	0.0
Actual(MU)	90.8	-202.4	113.9	-29.3	21.3	-5.6
O/D/U/D(MU)	-38.9	16.8	17.3	-3.7	2.9	-5.6

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL	% Share
Central Sector	3729	9716	5118	1590	797	20950	42
State Sector	7010	14571	3819	2700	265	28364	58
Total	10739	24287	8937	4290	1062	49314	100

G. Sourcewise generation (Gross) (MU)

	NR	WR	SR	ER	NER	All India	% Share
Coal	759	1451	701	641	16	3569	72
Lignite	19	16	44	0	0	79	2
Hydro	253	50	64	75	10	452	9
Nuclear	30	37	45	0	0	112	2
Gas, Naptha & Diesel	10	5	6	0	23	45	1
RES (Wind, Solar, Biomass & Others)	148	237	277	6	1	670	14
Total	1219	1797	1139	722	50	4927	100

Share of RES in total generation (%)	12.12	13.22	24.33	0.85	2.47	13.59
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	35.31	18.02	33.96	11.26	21.89	25.03

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.034
Based on State Max Demands	1.057

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

	Max Demand Met(MW)	Time	Shortage(MW)
Solar hr	206375	14:59	40
Non-Solar hr	202329	22:43	1052

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: 03-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	95	0.0	2.4	-2.4
3	765 kV	GAYA-VARANASI	2	966	0	13.1	0.0	13.1
4	765 kV	SASARAM-FATEHPUR	1	245	93	2.1	0.0	2.1
5	765 kV	GAYA-BALIA	1	0	641	0.0	9.2	-9.2
6	400 kV	PUSAULI-VARANASI	1	0	119	0.0	1.6	-1.6
7	400 kV	PUSAULI -ALLAHABAD	1	15	83	0.0	0.6	-0.6
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	370	472	0.0	2.3	-2.3
9	400 kV	PATNA-BALIA	2	109	323	0.0	2.8	-2.8
10	400 kV	NAUBATPUR-BALIA	2	166	323	0.0	2.2	-2.2
11	400 kV	BIHARSHARIFF-BALIA	2	260	154	0.5	0.0	0.5
12	400 kV	MOTIHARI-GORAKHPUR	2	158	288	0.0	1.9	-1.9
13	400 kV	BIHARSHARIFF-VARANASI	2	369	34	3.2	0.0	3.2
14	220 kV	SAHUPURI-KARAMNASA	1	0	169	0.0	2.9	-2.9
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	19.6	26.0	-6.4
Import/Export of ER (With WR)								
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	1457	0	16.8	0.0	16.8
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	1678	0	30.1	0.0	30.1
3	765 kV	JHARSUGUDA-DURG	2	0	395	0.0	6.2	-6.2
4	400 kV	JHARSUGUDA-RAIGARH	4	28	434	0.0	4.7	-4.7
5	400 kV	RANCHI-SIPAT	2	347	0	5.6	0.0	5.6
6	220 kV	BUDHIPADAR-RAIGARH	1	0	101	0.0	2.0	-2.0
7	220 kV	BUDHIPADAR-KORBA	2	214	0	3.2	0.0	3.2
					ER-WR	55.8	12.9	42.9
Import/Export of ER (With SR)								
1	HVDC	JEYPORE-GAZUWAKA B/B	2	0	538	0.0	12.2	-12.2
2	HVDC	TALCHER-KOLAR BIPOLE	2	0	1652	0.0	39.6	-39.6
3	765 kV	ANGUL-SRIKAKULAM	2	0	2738	0.0	46.7	-46.7
4	400 kV	TALCHER-I/C	2	269	0	5.0	0.0	5.0
5	220 kV	BALIMELA-UPPER-SILERRU	1	0	0	0.0	0.0	0.0
					ER-SR	0.0	98.5	-98.5
Import/Export of ER (With NER)								
1	400 kV	BINAGURI-BONGAIGAON	2	0	226	0.0	2.9	-2.9
2	400 kV	ALIPURDUAR-BONGAIGAON	2	0	709	0.0	8.9	-8.9
3	220 kV	ALIPURDUAR-SALAKATI	2	0	128	0.0	1.4	-1.4
					ER-NER	0.0	13.2	-13.2
Import/Export of NER (With NR)								
1	HVDC	BISWANATH CHARIALI-AGRA	2	288	0	6.9	0.0	6.9
					NER-NR	6.9	0.0	6.9
Import/Export of WR (With NR)								
1	HVDC	CHAMPA-KURUKSHETRA	2	0	1509	0.0	35.7	-35.7
2	HVDC	VINDHYACHAL B/B	-	444	0	12.1	0.0	12.1
3	HVDC	MUNDRA-MOHINDERGARH	2	0	300	0.0	7.4	-7.4
4	765 kV	GWALIOR-AGRA	2	0	1951	0.0	27.3	-27.3
5	765 kV	GWALIOR-PHAGI	2	768	1190	3.5	9.9	-6.4
6	765 kV	JABALPUR-ORAI	2	3	740	0.0	17.5	-17.5
7	765 kV	GWALIOR-ORAI	1	854	0	13.1	0.0	13.1
8	765 kV	SATNA-ORAI	1	0	854	0.0	17.1	-17.1
9	765 kV	BANASKANTHA-CHITORGARH	2	1465	96	19.0	0.1	18.9
10	765 kV	VINDHYACHAL-VARANASI	2	0	3200	0.0	61.2	-61.2
11	400 kV	ZERDA-KANKROLI	1	324	3	4.4	0.0	4.4
12	400 kV	ZERDA -BHINMAL	1	559	73	6.3	0.1	6.2
13	400 kV	VINDHYACHAL -RIHAND	1	968	0	20.3	0.0	20.3
14	400 kV	RAPP-SHUJALPUR	2	356	153	3.6	0.4	3.2
15	220 kV	BHANPURA-RANPUR	1	0	0	0.0	0.0	0.0
16	220 kV	BHANPURA-MORAK	1	0	30	0.0	2.0	-2.0
17	220 kV	MEHGAON-AURAIYA	1	69	0	0.7	0.0	0.7
18	220 kV	MALANPUR-AURAIYA	1	46	13	0.3	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	83.2	178.6	-95.4
Import/Export of WR (With SR)								
1	HVDC	BHADRAWATI B/B	-	0	1003	0.0	15.3	-15.3
2	HVDC	RAIGARH-PUGALUR	2	0	3507	0.0	61.3	-61.3
3	765 kV	SOLAPUR-RAICHUR	2	1936	771	15.3	3.1	12.2
4	765 kV	WARDHA-NIZAMABAD	2	0	2138	0.0	28.9	-28.9
5	400 kV	KOLHAPUR-KUDGI	2	1498	0	28.6	0.0	28.6
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	125	2.3	0.0	2.3
					WR-SR	46.2	108.6	-62.5

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)	453	123	256	6.15
	ER	400kV TALA-BINAGURI 1,2,4 (& 400kV MALBASE - BINAGURI) i.e. BINAGURI RECEIPT (from TALA HEP 6*170MW)	241	154	193	4.63
	ER	220kV CHUKHA-BIRPARA 1&2 (& 220kV MALBASE - BIRPARA) i.e. BIRPARA RECEIPT (from CHUKHA HEP 4*84MW)	-91	76	-57	-1.37
	NER	132kV GELEPHU-SALAKATI	14	0	4	0.09
	NER	132kV MOTANGA-RANGIA	55	34	43	1.03
NEPAL	NR	132kV MAHENDRANAGAR-TANAKPUR(NHPC)	-76	0	-56	-1.34
	ER	NEPAL IMPORT (FROM BIHAR)	-74	-24	-43	-1.04
	ER	400kV DHALKEBAR-MUZAFFARPUR 1&2	-408	-8	-196	-4.71
BANGLADESH	ER	BHERAMARA B/B HVDC (B'DESH)	-925	-823	-897	-21.54
	ER (Isolated from Indian Grid)	400kV GODDA_TPS-RAHANPUR (B'DESH) D/C	-1129	-993	-1063	-25.50
	NER	132kV COMILLA-SURAJMANI NAGAR 1&2	-170	0	-152	-3.65