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: 30th May 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 29.05.2023.

महोदय/Dear Sir,

आई०ई०जी०सी०-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 29-मई-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 29th May 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: 30-May-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)	53624	58745	48842	25098	3020	189329
Peak Shortage (MW)	820	141	40	1042	298	2341
Energy Met (MU)	1187	1367	1181	564	58	4357
Hydro Gen (MU)	234	53	85	63	10	446
Wind Gen (MU)	19	82	34	-	-	135
Solar Gen (MU)*	125.31	59.55	113.82	3.02	1.47	303
Energy Shortage (MU)	7.51	1.61	0.16	11.13	2.48	22.89
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	54461	64556	57580	26511	3282	201431
Time Of Maximum Demand Met	12:52	15:09	14:52	23:20	18:57	14:30

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	0.094	0.84	3.80	19.35	23.99	61.74	14.27

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	7600	0	158.4	65.9	-2.6	105	0.00
	Haryana	7092	0	154.4	104.7	-5.9	0	0.00
	Rajasthan	9707	0	204.7	28.3	-8.7	284	0.00
	Delhi	4782	0	99.0	97.6	-3.8	175	0.27
	UP	21252	580	434.2	179.2	-0.3	420	5.99
	Uttarakhand	2114	0	45.8	25.6	0.5	145	0.18
	HP	1484	0	28.0	4.3	-0.5	85	0.62
	J&K(UT) & Ladakh(UT)	2624	0	53.6	30.0	0.1	451	0.45
	Chandigarh	279	0	5.2	5.1	0.1	23	0.00
	Railways_NR ISTS	180	0	3.8	3.1	0.7	57	0.00
WR	Chhattisgarh	4750	0	106.0	43.7	-0.6	263	0.00
	Gujarat	19253	0	388.0	199.2	6.1	2063	0.00
	MP	11032	0	213.3	109.0	-4.0	550	0.00
	Maharashtra	27273	0	583.7	202.8	-0.8	1001	1.61
	Goa	755	0	16.1	15.8	0.0	65	0.00
	DNHDDPDCL	1261	0	28.7	29.0	-0.3	101	0.00
	AMNSIL	863	0	19.1	9.9	-0.1	268	0.00
	BALCO	520	0	12.4	12.4	0.0	176	0.00
SR	Andhra Pradesh	11997	0	233.9	93.8	2.4	872	0.00
	Telangana	9867	0	201.6	70.0	0.4	1133	0.00
	Karnataka	14085	0	265.6	87.1	3.7	841	0.00
	Kerala	4472	0	94.4	65.6	0.2	232	0.00
	Tamil Nadu	17865	0	374.3	228.9	9.0	1401	0.00
	Puducherry	485	40	11.1	9.6	0.8	93	0.16
ER	Bihar	5922	797	127.4	117.8	-0.1	338	8.29
	DVC	3434	0	74.3	-45.1	-0.1	180	0.00
	Jharkhand	1611	0	33.7	26.3	-1.3	208	2.84
	Odisha	5761	0	121.6	48.8	-1.3	394	0.00
	West Bengal	10377	0	204.9	87.6	-2.4	408	0.00
	Sikkim	94	0	1.9	1.5	0.5	55	0.00
	Railways_ER ISTS	7	0	0.1	0.3	-0.2	3	0.00
NER	Arunachal Pradesh	166	0	2.6	2.5	0.0	66	0.00
	Assam	2112	270	37.7	30.6	0.8	155	1.15
	Manipur	170	0	2.4	2.3	0.0	17	0.00
	Meghalaya	335	60	5.2	2.5	1.7	57	1.33
	Mizoram	119	0	1.8	1.8	-0.4	8	0.00
	Nagaland	150	0	2.6	2.5	-0.1	13	0.00
	Tripura	336	0	5.7	5.7	0.6	65	0.00

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

	Bhutan	Nepal	Bangladesh	Godda -> Bangladesh
Actual (MU)	4.6	-6.9	-25.6	-19.1
Day Peak (MW)	318.7	-426.8	-1103.0	-1002.8

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	150.8	-270.8	187.1	-73.3	6.2	0.0
Actual(MU)	119.1	-281.9	221.9	-75.4	7.2	-9.1
O/D/U/D(MU)	-31.7	-11.1	34.8	-2.1	1.0	-9.1

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL	% Share
Central Sector	4427	9546	6078	1800	480	22331	46
State Sector	7470	13358	3108	2140	241	26317	54
Total	11897	22904	9186	3940	721	48647	100

G. Sourcewise generation (Gross) (MU)

	NR	WR	SR	ER	NER	All India	% Share
Coal	704	1498	697	650	17	3566	76
Lignite	22	16	42	0	0	79	2
Hydro	234	53	85	63	10	446	9
Nuclear	30	38	46	0	0	113	2
Gas, Naptha & Diesel	11	6	6	0	28	51	1
RES (Wind, Solar, Biomass & Others)	152	142	167	3	1	466	10
Total	1153	1752	1042	717	57	4722	100

Share of RES in total generation (%)	13.20	8.09	16.04	0.42	2.58	9.86
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	36.10	13.29	28.59	9.27	20.32	21.71

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.024
Based on State Max Demands	1.053

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

	Max Demand Met(MW)	Time	Shortage(MW)
Solar hr	201431	14:30	1082
Non-Solar hr	193034	22:42	2614

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: 30-May-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	649	54	7.4	0.0	7.4
4	765 kV	SASARAM-FATEHPUR	1	18	283	0.0	3.5	-3.5
5	765 kV	GAYA-BALIA	1	0	560	0.0	9.7	-9.7
6	400 kV	PUSAULI-VARANASI	1	0	102	0.0	1.3	-1.3
7	400 kV	PUSAULI -ALLAHABAD	1	0	93	0.0	1.0	-1.0
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	258	503	0.0	5.1	-5.1
9	400 kV	PATNA-BALIA	2	0	376	0.0	7.2	-7.2
10	400 kV	NAUBATPUR-BALIA	2	0	396	0.0	5.9	-5.9
11	400 kV	BIHARSHARIFF-BALIA	2	125	234	0.0	2.1	-2.1
12	400 kV	MOTIHARI-GORAKHPUR	2	81	318	0.0	4.0	-4.0
13	400 kV	BIHARSHARIFF-VARANASI	2	163	126	0.2	0.0	0.2
14	220 kV	SAHUPURI-KARAMNASA	1	0	164	0.0	2.5	-2.5
15	132 kV	NAGAR UNTARI-RIHAND	1	0	0	0.0	0.0	0.0
16	132 kV	GARWAH-RIHAND	1	25	0	0.8	0.0	0.8
17	132 kV	KARMANASA-SAHUPURI	1	0	61	0.0	0.0	0.0
18	132 kV	KARMANASA-CHANDAULI	1	0	0	0.0	0.0	0.0
					ER-NR	8.3	44.6	-36.3
Import/Export of ER (With WR)								
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	998	517	5.6	0.0	5.6
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	1116	121	12.8	0.0	12.8
3	765 kV	JHARSUGUDA-DURG	2	0	523	0.0	8.1	-8.1
4	400 kV	JHARSUGUDA-RAIGARH	4	233	344	0.0	2.6	-2.6
5	400 kV	RANCHI-SIPAT	2	278	79	2.7	0.0	2.7
6	220 kV	BUDHIPADAR-RAIGARH	1	0	44	0.0	1.6	-1.6
7	220 kV	BUDHIPADAR-KORBA	2	158	0	3.4	0.0	3.4
					ER-WR	24.4	12.3	12.1
Import/Export of ER (With SR)								
1	HVDC	JEYPORE-GAZUWAKA B/B	2	0	766	0.0	16.5	-16.5
2	HVDC	TALCHER-KOLAR BIPOLE	2	0	1994	0.0	26.4	-26.4
3	765 kV	ANGUL-SRIKAKULAM	2	0	3210	0.0	53.8	-53.8
4	400 kV	TALCHER-I/C	2	1665	240	16.0	0.0	16.0
5	220 kV	BALIMELA-UPPER-SILERRU	1	0	0	0.0	0.0	0.0
					ER-SR	0.0	96.7	-96.7
Import/Export of ER (With NER)								
1	400 kV	BINAGURI-BONGAIGAON	2	77	82	0.4	0.4	-0.1
2	400 kV	ALIPURDUAR-BONGAIGAON	2	265	179	0.8	0.0	0.8
3	220 kV	ALIPURDUAR-SALAKATI	2	56	19	0.6	0.0	0.6
					ER-NER	1.7	0.4	1.3
Import/Export of NER (With NR)								
1	HVDC	BISWANATH CHARIALI-AGRA	2	382	0	7.8	0.0	7.8
					NER-NR	7.8	0.0	7.8
Import/Export of WR (With NR)								
1	HVDC	CHAMPA-KURUKSHETRA	2	0	3534	0.0	44.8	-44.8
2	HVDC	VINDHYACHAL B/B	-	449	0	12.2	0.0	12.2
3	HVDC	MUNDRA-MOHINDERGARH	2	0	496	0.0	6.7	-6.7
4	765 kV	GWALIOR-AGRA	2	0	1835	0.0	32.9	-32.9
5	765 kV	GWALIOR-PHAGI	2	498	830	0.4	15.4	-15.0
6	765 kV	JABALPUR-ORAI	2	0	712	0.0	20.2	-20.2
7	765 kV	GWALIOR-ORAI	1	732	0	14.7	0.0	14.7
8	765 kV	SATNA-ORAI	1	0	971	0.0	19.7	-19.7
9	765 kV	BANASKANTHA-CHITORGARH	2	1541	0	25.9	0.0	25.9
10	765 kV	VINDHYACHAL-VARANASI	2	0	2637	0.0	50.0	-50.0
11	400 kV	ZERDA-KANKROLI	1	344	0	5.5	0.0	5.5
12	400 kV	ZERDA -BHINMAL	1	745	0	11.6	0.0	11.6
13	400 kV	VINDHYACHAL -RIHAND	1	957	0	21.7	0.0	21.7
14	400 kV	RAPP-SHUJALPUR	2	536	194	4.4	0.4	4.0
15	220 kV	BHANPURA-RANPUR	1	0	0	0.0	0.0	0.0
16	220 kV	BHANPURA-MORAK	1	0	30	0.0	1.8	-1.8
17	220 kV	MEHGAON-AURAIYA	1	53	4	0.5	0.0	0.5
18	220 kV	MALANPUR-AURAIYA	1	32	21	0.2	0.1	0.1
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	97.0	191.8	-94.7
Import/Export of WR (With SR)								
1	HVDC	BHADRAWATI B/B	-	0	1005	0.0	24.0	-24.0
2	HVDC	RAIGARH-PUGALUR	2	0	6622	0.0	122.4	-122.4
3	765 kV	SOLAPUR-RAICHUR	2	401	1394	0.5	10.5	-10.0
4	765 kV	WARDHA-NIZAMABAD	2	0	2497	0.0	35.9	-35.9
5	400 kV	KOLHAPUR-KUDGI	2	1101	0	19.6	0.0	19.6
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	135	2.6	0.0	2.6
					WR-SR	22.8	192.8	-170.0

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 MANGDECHU HEP 4*180MW)	154	-30	116	2.79
	ER	400kV TALA-BINAGURI 1,2,4 (& 400kV MALBASE - BINAGURI) i.e. BINAGURI RECEIPT (from TALA HEP 6*170MW)	249	161	199	4.78
	ER	220kV CHUKHA-BIRPARA 1&2 (& 220kV MALBASE - BIRPARA) i.e. BIRPARA RECEIPT (from CHUKHA HEP 4*84MW)	-122	-2	-94	-2.26
	NER	132kV GELEPHU-SALAKATI	12	0	4	0.10
	NER	132kV MOTANGA-RANGIA	-46	-25	-35	-0.85
NEPAL	NR	132kV MAHENDRANAGAR-TANAKPUR(NHPC)	-74	0	-59	-1.41
	ER	NEPAL IMPORT (FROM BIHAR)	-98	-26	-45	-1.08
	ER	400kV DHALKEBAR-MUZAFFARPUR 1&2	-255	-8	-182	-4.37
BANGLADESH	ER	BHERAMARA B/B HVDC (B'DESH)	-932	-829	-913	-21.90
	ER (Isolated from Indian Grid)	400kV GODDA_TPS-RAHANPUR (B'DESH) D/C	-1003	0	-795	-19.07
	NER	132kV COMILLA-SURAJMANI NAGAR 1&2	-171	0	-156	-3.74