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: 26th 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 25.05.2023.

महोदय/Dear Sir,

आई०ई०जी०सी०-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 25-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 25th 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: 26-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)	52496	62485	47563	19348	3109	185001
Peak Shortage (MW)	65	0	0	0	18	83
Energy Met (MU)	1220	1484	1166	523	55	4448
Hydro Gen (MU)	271	32	54	63	12	432
Wind Gen (MU)	65	233	144	-	-	443
Solar Gen (MU)*	131.44	64.73	123.61	5.17	1.16	326
Energy Shortage (MU)	0.15	0.00	0.00	5.12	1.11	6.38
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	56201	67605	55704	25189	3168	204585
Time Of Maximum Demand Met	11:49	15:08	15:02	00:02	18:59	15:01

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	0.062	0.00	0.67	5.09	5.76	68.35	25.89

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	7658	0	153.8	86.5	-1.7	299	0.00
	Haryana	8197	0	161.6	119.4	-5.1	283	0.00
	Rajasthan	11928	0	225.0	25.5	-13.1	391	0.00
	Delhi	5569	0	111.5	100.8	-4.1	29	0.00
	UP	21602	0	441.6	200.7	-1.4	507	0.00
	Uttarakhand	1855	0	40.9	21.7	-2.8	120	0.00
	HP	1288	0	24.7	-4.6	0.0	79	0.00
	J&K(UT) & Ladakh(UT)	2604	0	52.0	27.7	-1.5	167	0.15
	Chandigarh	265	0	5.0	5.8	-0.7	9	0.00
	Railways_NR ISTS	171	0	3.7	3.2	0.5	33	0.00
WR	Chhattisgarh	4894	0	108.9	48.2	-1.4	206	0.00
	Gujarat	20666	0	445.9	166.4	-1.2	884	0.00
	MP	12179	0	262.1	145.8	-3.2	388	0.00
	Maharashtra	27073	0	592.7	218.4	0.4	700	0.00
	Goa	742	0	16.0	15.9	-0.3	44	0.00
	DNHDDPDCL	1223	0	27.5	27.8	-0.3	139	0.00
	AMNSIL	863	0	18.9	10.1	0.0	258	0.00
	BALCO	522	0	12.4	12.4	0.0	13	0.00
SR	Andhra Pradesh	11783	0	235.8	78.4	-1.0	541	0.00
	Telangana	8971	0	193.7	68.5	-0.5	482	0.00
	Karnataka	12346	0	245.8	75.5	-0.7	505	0.00
	Kerala	4657	0	94.0	71.1	-0.5	186	0.00
	Tamil Nadu	18141	0	385.4	199.7	-4.8	336	0.00
	Puducherry	487	0	11.0	10.8	-0.5	46	0.00
ER	Bihar	5894	245	109.8	102.0	-2.3	664	4.93
	DVC	3560	0	71.1	-32.8	-0.3	318	0.00
	Jharkhand	1665	0	30.7	30.8	-5.0	254	0.19
	Odisha	6092	0	120.0	53.9	-3.2	446	0.00
	West Bengal	9480	0	189.5	66.6	-4.7	374	0.00
	Sikkim	96	0	1.5	1.7	-0.3	21	0.00
	Railways_ER ISTS	9	0	0.1	0.4	-0.2	0	0.00
NER	Arunachal Pradesh	133	0	2.5	2.6	-0.3	20	0.00
	Assam	2019	0	36.3	29.6	0.3	207	0.00
	Manipur	173	0	2.4	2.5	-0.1	16	0.00
	Meghalaya	324	18	5.0	3.3	0.0	115	1.11
	Mizoram	113	0	1.8	1.8	-0.2	10	0.00
	Nagaland	164	0	2.6	2.5	-0.1	22	0.00
	Tripura	305	0	5.0	5.0	0.3	116	0.00

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

	Bhutan	Nepal	Bangladesh	Godda -> Bangladesh
Actual (MU)	6.2	-5.1	-25.5	-15.4
Day Peak (MW)	477.0	-363.0	-1098.0	-795.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	138.0	-215.7	135.7	-65.3	7.3	0.0
Actual(MU)	86.5	-203.8	162.8	-61.1	11.4	-4.2
O/D/U/D(MU)	-51.4	11.9	27.1	4.2	4.1	-4.2

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL	% Share
Central Sector	4649	8726	5538	1430	459	20801	44
State Sector	6840	12998	4228	1590	277	25932	56
Total	11489	21723	9766	3020	735	46733	100

G. Sourcewise generation (Gross) (MU)

	NR	WR	SR	ER	NER	All India	% Share
Coal	670	1396	644	600	11	3321	69
Lignite	17	19	43	0	0	79	2
Hydro	271	32	54	63	12	432	9
Nuclear	30	38	46	0	0	114	2
Gas, Naptha & Diesel	19	17	6	0	27	69	1
RES (Wind, Solar, Biomass & Others)	206	299	288	5	1	799	17
Total	1213	1802	1081	668	51	4814	100

Share of RES in total generation (%)	16.97	16.61	26.61	0.77	2.30	16.60
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	41.78	20.51	35.88	10.18	25.23	27.94

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.016
Based on State Max Demands	1.054

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

	Max Demand Met(MW)	Time	Shortage(MW)
Solar hr	204585	15:01	67
Non-Solar hr	191758	0:00	518

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: 26-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	2.4	-2.4
3	765 kV	GAYA-VARANASI	2	913	484	5.0	0.0	5.0
4	765 kV	SASARAM-FATEHPUR	1	1	200	0.0	1.9	-1.9
5	765 kV	GAYA-BALIA	1	0	554	0.0	6.5	-6.5
6	400 kV	PUSAULI-VARANASI	1	0	126	0.0	1.9	-1.9
7	400 kV	PUSAULI -ALLAHABAD	1	17	94	0.0	0.4	-0.4
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	281	673	0.0	5.0	-5.0
9	400 kV	PATNA-BALIA	2	128	451	0.0	4.9	-4.9
10	400 kV	NAUBATPUR-BALIA	2	195	467	0.0	4.6	-4.6
11	400 kV	BIHARSHARIFF-BALIA	2	344	285	0.0	0.2	-0.2
12	400 kV	MOTIHARI-GORAKHPUR	2	98	452	0.0	4.5	-4.5
13	400 kV	BIHARSHARIFF-VARANASI	2	422	313	1.4	0.0	1.4
14	220 kV	SAHUPURI-KARAMNASA	1	7	191	0.0	2.7	-2.7
15	132 kV	NAGAR UNTARI-RIHAND	1	0	0	0.0	0.0	0.0
16	132 kV	GARWAH-RIHAND	1	25	0	0.4	0.0	0.4
17	132 kV	KARMANASA-SAHUPURI	1	0	60	0.0	0.0	0.0
18	132 kV	KARMANASA-CHANDAULI	1	0	0	0.0	0.0	0.0
					ER-NR	6.7	34.9	-28.3
Import/Export of ER (With WR)								
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	1909	108	19.5	0.0	19.5
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	1465	0	17.6	0.0	17.6
3	765 kV	JHARSUGUDA-DURG	2	8	504	0.0	6.4	-6.4
4	400 kV	JHARSUGUDA-RAIGARH	4	180	579	0.0	5.0	-5.0
5	400 kV	RANCHI-SIPAT	2	367	94	3.1	0.0	3.1
6	220 kV	BUDHIPADAR-RAIGARH	1	0	44	0.0	1.1	-1.1
7	220 kV	BUDHIPADAR-KORBA	2	164	0	3.0	0.0	3.0
					ER-WR	43.1	12.4	30.7
Import/Export of ER (With SR)								
1	HVDC	JEYPORE-GAZUWAKA B/B	2	0	552	0.0	12.3	-12.3
2	HVDC	TALCHER-KOLAR BIPOLE	2	0	1641	0.0	39.6	-39.6
3	765 kV	ANGUL-SRIKAKULAM	2	0	2943	0.0	51.7	-51.7
4	400 kV	TALCHER-I/C	2	247	647	0.0	0.1	-0.1
5	220 kV	BALIMELA-UPPER-SILERRU	1	0	0	0.0	0.0	0.0
					ER-SR	0.0	103.7	-103.7
Import/Export of ER (With NER)								
1	400 kV	BINAGURI-BONGAIGAON	2	82	193	0.0	0.6	-0.6
2	400 kV	ALIPURDUAR-BONGAIGAON	2	282	525	0.0	0.8	-0.8
3	220 kV	ALIPURDUAR-SALAKATI	2	65	95	0.3	0.0	0.3
					ER-NER	0.3	1.3	-1.0
Import/Export of NER (With NR)								
1	HVDC	BISWANATH CHARIALI-AGRA	2	668	0	9.6	0.0	9.6
					NER-NR	9.6	0.0	9.6
Import/Export of WR (With NR)								
1	HVDC	CHAMPA-KURUKSHETRA	2	0	1502	0.0	21.5	-21.5
2	HVDC	VINDHYACHAL B/B	-	364	0	11.6	0.0	11.6
3	HVDC	MUNDRA-MOHINDERGARH	2	0	593	0.0	10.3	-10.3
4	765 kV	GWALIOR-AGRA	2	0	1472	0.0	23.3	-23.3
5	765 kV	GWALIOR-PHAGI	2	834	690	5.4	3.8	1.5
6	765 kV	JABALPUR-ORAI	2	0	666	0.0	17.1	-17.1
7	765 kV	GWALIOR-ORAI	1	691	0	9.3	0.0	9.3
8	765 kV	SATNA-ORAI	1	0	892	0.0	16.9	-16.9
9	765 kV	BANASKANTHA-CHITORGARH	2	1023	47	11.4	0.0	11.4
10	765 kV	VINDHYACHAL-VARANASI	2	0	3128	0.0	57.5	-57.5
11	400 kV	ZERDA-KANKROLI	1	249	0	3.8	0.0	3.8
12	400 kV	ZERDA -BHINMAL	1	683	0	9.9	0.0	9.9
13	400 kV	VINDHYACHAL -RIHAND	1	959	0	21.7	0.0	21.7
14	400 kV	RAPP-SHUJALPUR	2	579	46	7.0	0.0	7.0
15	220 kV	BHANPURA-RANPUR	1	0	0	0.0	0.0	0.0
16	220 kV	BHANPURA-MORAK	1	0	30	0.0	2.0	-2.0
17	220 kV	MEHGAON-AURAIYA	1	61	20	0.6	0.0	0.6
18	220 kV	MALANPUR-AURAIYA	1	44	22	0.4	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	80.9	152.6	-71.7
Import/Export of WR (With SR)								
1	HVDC	BHADRAWATI B/B	-	0	1005	0.0	16.2	-16.2
2	HVDC	RAIGARH-PUGALUR	2	0	4018	0.0	77.0	-77.0
3	765 kV	SOLAPUR-RAICHUR	2	990	1285	5.2	6.9	-1.6
4	765 kV	WARDHA-NIZAMABAD	2	0	2181	0.0	34.2	-34.2
5	400 kV	KOLHAPUR-KUDGI	2	1396	0	25.3	0.0	25.3
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	130	2.5	0.0	2.5
					WR-SR	33.1	134.2	-101.1

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)	223	25	108	2.60
	ER	400kV TALA-BINAGURI 1,2,4 (& 400kV MALBASE - BINAGURI) i.e. BINAGURI RECEIPT (from TALA HEP 6*170MW)	330	160	242	5.81
	ER	220kV CHUKHA-BIRPARA 1&2 (& 220kV MALBASE - BIRPARA) i.e. BIRPARA RECEIPT (from CHUKHA HEP 4*84MW)	-161	-69	-128	-3.07
	NER	132kV GELEPHU-SALAKATI	11	0	0	0.01
	NER	132kV MOTANGA-RANGIA	42	25	34	0.82
NEPAL	NR	132kV MAHENDRANAGAR-TANAKPUR(NHPC)	-69	0	-36	-0.87
	ER	NEPAL IMPORT (FROM BIHAR)	0	0	0	0.00
	ER	400kV DHALKEBAR-MUZAFFARPUR 1&2	-294	0	-177	-4.25
BANGLADESH	ER	BHERAMARA B/B HVDC (B'DESH)	-946	-858	-929	-22.30
	ER (Isolated from Indian Grid)	400kV GODDA_TPS-RAHANPUR (B'DESH) D/C	-795	-358	-642	-15.40
	NER	132kV COMILLA-SURAJMANI NAGAR 1&2	-152	0	-132	-3.17