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: 28th 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 27.05.2023.

महोदय/Dear Sir,

आई०ई०जी०सी०-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 27-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 27th 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: 28-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)	54919	59394	49193	24141	2726	190373
Peak Shortage (MW)	193	0	0	471	15	679
Energy Met (MU)	1139	1442	1175	490	50	4296
Hydro Gen (MU)	252	49	75	76	18	470
Wind Gen (MU)	42	230	99	-	-	371
Solar Gen (MU)*	117.73	65.94	129.55	3.53	0.94	318
Energy Shortage (MU)	2.07	0.00	0.00	3.19	1.24	6.50
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	55413	65047	55688	24273	2765	194797
Time Of Maximum Demand Met	00:00	00:13	14:51	22:42	18:57	22:51

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	0.101	0.31	4.41	15.61	20.33	59.67	20.00

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	7322	0	158.7	77.2	-1.3	198	0.00
	Haryana	7643	0	143.0	91.1	-2.7	310	1.34
	Rajasthan	11217	0	230.7	57.7	-4.8	460	0.00
	Delhi	5051	0	97.4	92.2	-1.1	138	0.00
	UP	20097	0	371.2	175.0	-5.6	624	0.00
	Uttarakhand	2068	0	44.3	24.9	-0.5	180	0.26
	HP	1540	0	30.3	5.5	0.4	137	0.00
	J&K(UT) & Ladakh(UT)	2748	150	55.2	29.3	0.1	342	0.47
	Chandigarh	232	0	4.8	4.8	0.0	29	0.00
	Railways_NR ISTS	173	0	3.8	3.2	0.6	38	0.00
WR	Chhattisgarh	4690	0	97.8	40.8	-2.8	460	0.00
	Gujarat	20212	0	432.4	184.3	0.0	694	0.00
	MP	11429	0	251.4	128.1	-5.4	427	0.00
	Maharashtra	26772	0	586.9	199.5	2.4	998	0.00
	Goa	734	0	15.3	14.8	0.2	79	0.00
	DNHDDPDCL	1227	0	28.6	28.8	-0.2	47	0.00
	AMNSIL	819	0	17.6	10.9	-0.1	277	0.00
	BALCO	522	0	12.4	12.5	-0.1	11	0.00
SR	Andhra Pradesh	12138	0	244.2	84.8	0.5	578	0.00
	Telangana	9555	0	198.2	64.1	1.3	577	0.00
	Karnataka	13117	0	259.8	88.7	1.8	916	0.00
	Kerala	4592	0	92.1	65.3	0.2	381	0.00
	Tamil Nadu	17059	0	369.8	209.4	2.2	1127	0.00
	Puducherry	490	0	10.8	10.2	-0.2	59	0.00
ER	Bihar	5793	199	101.9	97.9	-1.6	314	2.22
	DVC	3434	0	71.9	-38.3	0.2	312	0.00
	Jharkhand	1398	0	29.0	21.8	-2.0	161	0.97
	Odisha	5905	0	113.6	51.7	-4.7	304	0.00
	West Bengal	8941	0	171.6	59.6	-2.9	359	0.00
	Sikkim	87	0	1.8	1.4	0.3	42	0.00
	Railways_ER ISTS	8	0	0.2	0.3	-0.1	0	0.00
NER	Arunachal Pradesh	144	0	2.5	3.1	-0.7	9	0.00
	Assam	1780	0	31.3	25.2	-0.5	210	0.00
	Manipur	165	15	2.4	2.5	-0.1	32	0.00
	Meghalaya	322	0	5.3	4.0	-0.1	46	1.24
	Mizoram	105	0	1.8	1.9	-0.3	11	0.00
	Nagaland	142	0	2.4	2.4	-0.2	17	0.00
	Tripura	247	0	4.5	4.4	-0.2	64	0.00

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

	Bhutan	Nepal	Bangladesh	Godda -> Bangladesh
Actual (MU)	13.2	0.4	-25.3	-17.2
Day Peak (MW)	740.0	-162.0	-1102.0	-784.2

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	168.2	-245.8	161.9	-81.5	-2.8	0.0
Actual(MU)	133.1	-234.1	201.5	-101.9	-2.9	-4.2
O/D/U/D(MU)	-35.1	11.7	39.7	-20.4	-0.1	-4.2

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL	% Share
Central Sector	6879	9546	7038	2890	455	26807	45
State Sector	10080	14300	6353	1920	241	32893	55
Total	16959	23845	13391	4810	696	59700	100

G. Sourcewise generation (Gross) (MU)

	NR	WR	SR	ER	NER	All India	% Share
Coal	584	1354	632	582	13	3166	69
Lignite	24	17	40	0	0	81	2
Hydro	252	49	75	76	18	470	10
Nuclear	30	38	46	0	0	113	2
Gas, Naptha & Diesel	10	15	6	0	28	59	1
RES (Wind, Solar, Biomass & Others)	167	297	250	4	1	718	16
Total	1067	1771	1049	661	60	4608	100

Share of RES in total generation (%)	15.63	16.79	23.83	0.53	1.56	15.58
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	42.03	21.70	35.39	11.93	31.59	28.24

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.043
Based on State Max Demands	1.077

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

	Max Demand Met(MW)	Time	Shortage(MW)
Solar hr	192092	15:27	60
Non-Solar hr	194797	22:51	1068

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: 28-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	2.3	-2.3
3	765 kV	GAYA-VARANASI	2	692	733	0.0	1.4	-1.4
4	765 kV	SASARAM-FATEHPUR	1	86	592	0.0	6.8	-6.8
5	765 kV	GAYA-BALIA	1	0	553	0.0	7.1	-7.1
6	400 kV	PUSAULI-VARANASI	1	27	99	0.0	0.5	-0.5
7	400 kV	PUSAULI -ALLAHABAD	1	0	138	0.0	1.8	-1.8
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	54	907	0.0	10.9	-10.9
9	400 kV	PATNA-BALIA	2	18	599	0.0	7.4	-7.4
10	400 kV	NAUBATPUR-BALIA	2	62	647	0.0	7.5	-7.5
11	400 kV	BIHARSHARIFF-BALIA	2	137	356	0.0	3.3	-3.3
12	400 kV	MOTIHARI-GORAKHPUR	2	52	532	0.0	6.5	-6.5
13	400 kV	BIHARSHARIFF-VARANASI	2	238	360	0.0	2.4	-2.4
14	220 kV	SAHUPURI-KARAMNASA	1	0	159	0.0	0.1	-0.1
15	132 kV	NAGAR UNTARI-RIHAND	1	0	0	0.0	0.0	0.0
16	132 kV	GARWAH-RIHAND	1	25	0	0.5	0.0	0.5
17	132 kV	KARMANASA-SAHUPURI	1	0	52	0.0	0.0	0.0
18	132 kV	KARMANASA-CHANDAULI	1	0	0	0.0	0.0	0.0
					ER-NR	0.5	57.9	-57.4
Import/Export of ER (With WR)								
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	1903	0	17.5	0.0	17.5
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	946	462	5.7	0.0	5.7
3	765 kV	JHARSUGUDA-DURG	2	0	421	0.0	5.9	-5.9
4	400 kV	JHARSUGUDA-RAIGARH	4	166	382	0.0	3.2	-3.2
5	400 kV	RANCHI-SIPAT	2	244	165	0.2	0.0	0.2
6	220 kV	BUDHIPADAR-RAIGARH	1	0	79	0.0	1.3	-1.3
7	220 kV	BUDHIPADAR-KORBA	2	172	0	4.0	0.0	4.0
					ER-WR	27.4	10.3	17.1
Import/Export of ER (With SR)								
1	HVDC	JEYPORE-GAZUWAKA B/B	2	0	550	0.0	12.6	-12.6
2	HVDC	TALCHER-KOLAR BIPOLE	2	0	1649	0.0	39.7	-39.7
3	765 kV	ANGUL-SRIKAKULAM	2	0	3175	0.0	57.7	-57.7
4	400 kV	TALCHER-I/C	2	274	655	0.0	0.6	-0.6
5	220 kV	BALIMELA-UPPER-SILERRU	1	0	0	0.0	0.0	0.0
					ER-SR	0.0	110.0	-110.0
Import/Export of ER (With NER)								
1	400 kV	BINAGURI-BONGAIGAON	2	191	0	1.9	0.1	1.8
2	400 kV	ALIPURDUAR-BONGAIGAON	2	580	0	3.6	0.0	3.6
3	220 kV	ALIPURDUAR-SALAKATI	2	101	0	0.8	0.0	0.8
					ER-NER	6.3	0.1	6.2
Import/Export of NER (With NR)								
1	HVDC	BISWANATH CHARIALI-AGRA	2	186	0	4.4	0.0	4.4
					NER-NR	4.4	0.0	4.4
Import/Export of WR (With NR)								
1	HVDC	CHAMPA-KURUKSHETRA	2	0	2001	0.0	28.6	-28.6
2	HVDC	VINDHYACHAL B/B	-	447	0	9.9	0.0	9.9
3	HVDC	MUNDRA-MOHINDERGARH	2	0	978	0.0	12.8	-12.8
4	765 kV	GWALIOR-AGRA	2	0	1891	0.0	25.6	-25.6
5	765 kV	GWALIOR-PHAGI	2	1063	1253	5.3	10.4	-5.1
6	765 kV	JABALPUR-ORAI	2	84	852	0.0	15.3	-15.3
7	765 kV	GWALIOR-ORAI	1	860	0	11.9	0.0	11.9
8	765 kV	SATNA-ORAI	1	0	980	0.0	17.8	-17.8
9	765 kV	BANASKANTHA-CHITORGARH	2	1222	477	10.8	1.0	9.8
10	765 kV	VINDHYACHAL-VARANASI	2	0	2267	0.0	41.6	-41.6
11	400 kV	ZERDA-KANKROLI	1	213	71	2.7	0.1	2.6
12	400 kV	ZERDA -BHINMAL	1	438	170	5.9	0.3	5.6
13	400 kV	VINDHYACHAL -RIHAND	1	960	0	20.4	0.0	20.4
14	400 kV	RAPP-SHUJALPUR	2	534	370	4.1	1.4	2.8
15	220 kV	BHANPURA-RANPUR	1	0	0	0.0	0.0	0.0
16	220 kV	BHANPURA-MORAK	1	0	30	0.0	0.7	-0.7
17	220 kV	MEHGAON-AURAIYA	1	74	39	0.5	0.1	0.5
18	220 kV	MALANPUR-AURAIYA	1	58	36	0.3	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	71.8	155.7	-83.9
Import/Export of WR (With SR)								
1	HVDC	BHADRAWATI B/B	-	0	1006	0.0	21.3	-21.3
2	HVDC	RAIGARH-PUGALUR	2	0	5008	0.0	87.4	-87.4
3	765 kV	SOLAPUR-RAICHUR	2	847	1840	2.4	13.5	-11.1
4	765 kV	WARDHA-NIZAMABAD	2	0	2452	0.0	36.2	-36.2
5	400 kV	KOLHAPUR-KUDGI	2	1248	0	21.4	0.0	21.4
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	135	1.5	0.0	1.5
					WR-SR	25.2	158.3	-133.1

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)	265	154	206	4.95
	ER	400kV TALA-BINAGURI 1,2,4 (& 400kV MALBASE - BINAGURI) i.e. BINAGURI RECEIPT (from TALA HEP 6*170MW)	438	296	366	8.79
	ER	220kV CHUKHA-BIRPARA 1&2 (& 220kV MALBASE - BIRPARA) i.e. BIRPARA RECEIPT (from CHUKHA HEP 4*84MW)	-92	38	-59	-1.42
	NER	132kV GELEPHU-SALAKATI	12	-8	3	0.07
	NER	132kV MOTANGA-RANGIA	51	16	34	0.81
NEPAL	NR	132kV MAHENDRANAGAR-TANAKPUR(NHPC)	-52	0	-2	-0.05
	ER	NEPAL IMPORT (FROM BIHAR)	0	0	0	0.00
	ER	400kV DHALKEBAR-MUZAFFARPUR 1&2	-110	161	17	0.40
BANGLADESH	ER	BHERAMARA B/B HVDC (B'DESH)	-924	-848	-912	-21.89
	ER (Isolated from Indian Grid)	400kV GODDA_TPS-RAHANPUR (B'DESH) D/C	-784	-611	-719	-17.24
	NER	132kV COMILLA-SURAJMANI NAGAR 1&2	-178	0	-141	-3.38