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: 16th 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 15.05.2023.

महोदय/Dear Sir,

आई०ई०जी०सी०-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 15-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 15th 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: 16-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)	63282	62277	49972	21996	2890	200417
Peak Shortage (MW)	0	0	0	402	11	413
Energy Met (MU)	1381	1474	1154	537	49	4596
Hydro Gen (MU)	212	27	70	54	8	371
Wind Gen (MU)	68	206	144	-	-	419
Solar Gen (MU)*	119.85	66.85	137.58	5.78	1.04	331
Energy Shortage (MU)	1.17	0.00	0.00	1.39	1.18	3.74
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	63511	67695	54676	25590	2923	212421
Time Of Maximum Demand Met	20:29	15:20	15:57	12:59	18:57	15:23

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	0.079	0.75	0.82	4.17	5.74	64.26	30.00

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	9474	0	193.2	80.9	-0.4	183	0.00
	Haryana	8671	0	181.5	131.7	-2.1	254	0.00
	Rajasthan	13940	0	272.7	45.2	-10.0	764	0.91
	Delhi	5661	0	115.4	101.0	-1.0	247	0.00
	UP	24020	0	476.4	212.7	0.3	1135	0.26
	Uttarakhand	2172	0	46.9	30.4	-0.3	105	0.00
	HP	1532	0	29.5	9.3	0.2	70	0.00
	J&K(UT) & Ladakh(UT)	2893	0	55.7	36.4	-2.9	122	0.00
	Chandigarh	282	0	5.6	5.6	0.0	27	0.00
	Railways_NR ISTS	173	0	3.8	3.3	0.6	46	0.00
WR	Chhattisgarh	4842	0	107.5	43.7	-1.3	490	0.00
	Gujarat	21015	0	445.7	172.0	-4.7	520	0.00
	MP	11761	0	255.7	135.9	-4.2	373	0.00
	Maharashtra	27301	0	591.3	208.6	0.1	860	0.00
	Goa	738	0	15.8	15.6	-0.2	88	0.00
	DNHDDPDCL	1234	0	28.3	28.6	-0.3	20	0.00
	AMNSIL	791	0	17.6	10.6	0.1	236	0.00
	BALCO	520	0	12.4	12.5	-0.1	7	0.00
SR	Andhra Pradesh	11506	0	237.5	75.0	2.6	1172	0.00
	Telangana	9196	0	190.4	55.8	2.9	1176	0.00
	Karnataka	12681	0	245.9	64.4	2.1	825	0.00
	Kerala	4768	0	96.5	69.4	0.6	301	0.00
	Tamil Nadu	17382	0	372.9	193.8	-1.0	1903	0.00
	Puducherry	487	0	10.8	10.3	-0.2	72	0.00
ER	Bihar	6252	0	108.4	98.1	-2.1	321	1.09
	DVC	3750	0	75.1	-46.8	0.7	311	0.00
	Jharkhand	1723	0	34.4	29.2	-2.5	195	0.30
	Odisha	6895	0	136.0	63.9	-1.9	412	0.00
	West Bengal	9736	0	182.2	58.1	-6.3	397	0.00
	Sikkim	91	0	1.4	1.4	0.0	50	0.00
	Railways_ER ISTS	19	0	0.0	0.2	-0.2	0	0.00
NER	Arunachal Pradesh	155	0	2.5	2.1	0.3	37	0.00
	Assam	1779	0	31.3	26.2	-0.1	109	0.00
	Manipur	174	0	2.1	2.2	0.0	45	0.00
	Meghalaya	327	13	4.9	3.9	0.0	45	1.18
	Mizoram	106	0	1.6	1.7	-0.4	5	0.00
	Nagaland	148	0	2.3	2.2	-0.1	16	0.00
	Tripura	302	0	4.8	5.1	0.4	56	0.00

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

	Bhutan	Nepal	Bangladesh	Godda -> Bangladesh
Actual (MU)	1.0	-8.1	-25.2	-9.0
Day Peak (MW)	124.4	-583.9	-1170.0	-445.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	237.8	-260.8	99.5	-82.5	6.0	0.0
Actual(MU)	216.3	-256.8	125.0	-98.4	6.6	-7.2
O/D/U/D(MU)	-21.4	4.0	25.5	-15.9	0.6	-7.2

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL	% Share
Central Sector	4420	9551	6258	520	425	21174	49
State Sector	5330	10332	4543	1170	277	21652	51
Total	9750	19883	10801	1690	702	42825	100

G. Sourcewise generation (Gross) (MU)

	NR	WR	SR	ER	NER	All India	% Share
Coal	763	1466	616	666	13	3524	71
Lignite	20	17	50	0	0	87	2
Hydro	212	27	70	54	8	371	7
Nuclear	29	44	52	0	0	126	3
Gas, Naptha & Diesel	22	19	6	0	28	76	2
RES (Wind, Solar, Biomass & Others)	200	274	308	6	1	789	16
Total	1246	1848	1102	726	50	4972	100

Share of RES in total generation (%)	16.04	14.83	27.97	0.79	2.06	15.86
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	35.42	18.69	38.99	8.28	17.51	25.84

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.009
Based on State Max Demands	1.056

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

	Max Demand Met(MW)	Time	Shortage(MW)
Solar hr	212421	15:23	285
Non-Solar hr	204332	22:29	21

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: 16-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	601	717	0.0	3.8	-3.8
4	765 kV	SASARAM-FATEHPUR	1	180	393	0.0	3.2	-3.2
5	765 kV	GAYA-BALIA	1	0	741	0.0	13.6	-13.6
6	400 kV	PUSAULI-VARANASI	1	0	101	0.0	1.4	-1.4
7	400 kV	PUSAULI -ALLAHABAD	1	0	111	0.0	1.0	-1.0
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	168	1022	0.0	10.2	-10.2
9	400 kV	PATNA-BALIA	2	0	743	0.0	11.3	-11.3
10	400 kV	NAUBATPUR-BALIA	2	0	786	0.0	11.7	-11.7
11	400 kV	BIHARSHARIFF-BALIA	2	111	532	0.0	6.3	-6.3
12	400 kV	MOTIHARI-GORAKHPUR	2	0	657	0.0	8.5	-8.5
13	400 kV	BIHARSHARIFF-VARANASI	2	269	286	0.0	2.3	-2.3
14	220 kV	SAHUPURI-KARAMNASA	1	0	185	0.0	3.2	-3.2
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	50	0.0	0.0	0.0
18	132 kV	KARMANASA-CHANDAULI	1	0	0	0.0	0.0	0.0
					ER-NR	0.5	79.0	-78.5
Import/Export of ER (With WR)								
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	1553	210	23.6	0.0	23.6
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	1272	448	15.0	0.0	15.0
3	765 kV	JHARSUGUDA-DURG	2	14	374	0.0	3.9	-3.9
4	400 kV	JHARSUGUDA-RAIGARH	4	363	314	0.1	0.0	0.1
5	400 kV	RANCHI-SIPAT	2	362	174	3.5	0.0	3.5
6	220 kV	BUDHIPADAR-RAIGARH	1	0	49	0.0	1.1	-1.1
7	220 kV	BUDHIPADAR-KORBA	2	241	0	3.2	0.0	3.2
					ER-WR	45.4	5.0	40.4
Import/Export of ER (With SR)								
1	HVDC	JEYPORE-GAZUWAKA B/B	2	0	579	0.0	12.5	-12.5
2	HVDC	TALCHER-KOLAR BIPOLE	2	0	1985	0.0	42.7	-42.7
3	765 kV	ANGUL-SRIKAKULAM	2	0	3414	0.0	53.3	-53.3
4	400 kV	TALCHER-I/C	2	623	414	0.0	1.7	-1.7
5	220 kV	BALIMELA-UPPER-SILERRU	1	0	0	0.0	0.0	0.0
					ER-SR	0.0	108.4	-108.4
Import/Export of ER (With NER)								
1	400 kV	BINAGURI-BONGAIGAON	2	119	65	0.9	0.1	0.7
2	400 kV	ALIPURDUAR-BONGAIGAON	2	399	95	3.4	0.0	3.4
3	220 kV	ALIPURDUAR-SALAKATI	2	87	0	1.1	0.0	1.1
					ER-NER	5.3	0.1	5.2
Import/Export of NER (With NR)								
1	HVDC	BISWANATH CHARIALI-AGRA	2	482	0	11.3	0.0	11.3
					NER-NR	11.3	0.0	11.3
Import/Export of WR (With NR)								
1	HVDC	CHAMPA-KURUKSHETRA	2	7	3572	0.0	37.2	-37.2
2	HVDC	VINDHYACHAL B/B	-	448	0	6.5	0.0	6.5
3	HVDC	MUNDRA-MOHINDERGARH	2	0	979	0.0	18.1	-18.1
4	765 kV	GWALIOR-AGRA	2	0	2327	0.0	34.9	-34.9
5	765 kV	GWALIOR-PHAGI	2	732	1099	0.0	11.5	-11.5
6	765 kV	JABALPUR-ORAI	2	0	1398	0.0	29.4	-29.4
7	765 kV	GWALIOR-ORAI	1	717	0	8.8	0.0	8.8
8	765 kV	SATNA-ORAI	1	0	1042	0.0	20.6	-20.6
9	765 kV	BANASKANTHA-CHITORGARH	2	842	566	3.7	0.0	3.7
10	765 kV	VINDHYACHAL-VARANASI	2	0	2975	0.0	55.2	-55.2
11	400 kV	ZERDA-KANKROLI	1	218	68	2.7	0.0	2.7
12	400 kV	ZERDA -BHINMAL	1	687	484	8.6	0.0	8.6
13	400 kV	VINDHYACHAL -RIHAND	1	953	0	20.9	0.0	20.9
14	400 kV	RAPP-SHUJALPUR	2	506	248	1.5	0.0	1.5
15	220 kV	BHANPURA-RANPUR	1	0	0	0.0	0.0	0.0
16	220 kV	BHANPURA-MORAK	1	0	30	0.0	2.6	-2.6
17	220 kV	MEHGAON-AURAIYA	1	48	18	0.3	0.0	0.3
18	220 kV	MALANPUR-AURAIYA	1	34	28	0.1	0.1	0.0
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	53.2	209.6	-156.4
Import/Export of WR (With SR)								
1	HVDC	BHADRAWATI B/B	-	499	0	11.5	0.0	11.5
2	HVDC	RAIGARH-PUGALUR	2	0	4013	0.0	56.5	-56.5
3	765 kV	SOLAPUR-RAICHUR	2	1467	2308	0.0	2.0	-2.0
4	765 kV	WARDHA-NIZAMABAD	2	0	2906	0.0	38.2	-38.2
5	400 kV	KOLHAPUR-KUDGI	2	1448	0	23.2	0.0	23.2
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	1	126	2.4	0.0	2.4
					WR-SR	37.1	96.8	-59.7

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)	120	-73	39	0.93
	ER	400kV TALA-BINAGURI 1,2,4 (& 400kV MALBASE - BINAGURI) i.e. BINAGURI RECEIPT (from TALA HEP 6*170MW)	250	104	142	3.41
	ER	220kV CHUKHA-BIRPARA 1&2 (& 220kV MALBASE - BIRPARA) i.e. BIRPARA RECEIPT (from CHUKHA HEP 4*84MW)	-153	-77	-115	-2.77
	NER	132kV GELEPHU-SALAKATI	14	3	8	0.20
	NER	132kV MOTANGA-RANGIA	-39	-20	-31	-0.73
NEPAL	NR	132kV MAHENDRANAGAR-TANAKPUR(NHPC)	-71	0	-60	-1.43
	ER	NEPAL IMPORT (FROM BIHAR)	-61	-13	-33	-0.78
	ER	400kV DHALKEBAR-MUZAFFARPUR 1&2	-452	-37	-245	-5.87
BANGLADESH	ER	BHERAMARA B/B HVDC (B'DESH)	-937	-837	-908	-21.80
	ER (Isolated from Indian Grid)	400kV GODDA_TPS-RAHANPUR (B'DESH) D/C	-445	-287	-374	-8.97
	NER	132kV COMILLA-SURAJMANI NAGAR 1&2	-233	0	-142	-3.41