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: 25th January 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 24.01.2023.

महोदय/Dear Sir,

आई०ई०जी०सी०-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 24- जनवरी -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 24th January 2023, is available at the NLDC website.

धन्यवाद,

ग्रिड कंट्रोलर ऑफ इंडिया लिमिटेड
राष्ट्रीय भार प्रेषण केंद्र, नई दिल्ली

Report for previous day **Date of Reporting:** **25-Jan-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 19:00 hrs; from RLDCs)	51224	58508	43918	21634	2729	178013
Peak Shortage (MW)	263	0	0	346	0	609
Energy Met (MU)	1110	1416	1060	448	48	4082
Hydro Gen (MU)	106	35	93	31	7	271
Wind Gen (MU)	28	90	45	-	-	164
Solar Gen (MU)*	92.88	50.00	93.96	2.24	0.78	240
Energy Shortage (MU)	2.30	0.00	0.00	3.23	0.00	5.53
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	57155	68806	54210	22015	2814	201226
Time Of Maximum Demand Met (From NLDC SCADA)	10:23	10:52	10:46	18:19	17:54	10:46

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	0.088	0.75	3.36	13.15	17.25	60.86	21.88

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	7791	0	146.0	44.0	-2.4	83	0.50
	Haryana	7133	0	139.7	84.9	0.2	241	0.41
	Rajasthan	16931	0	306.2	101.9	-3.3	216	0.00
	Delhi	4380	0	74.8	67.6	-2.1	151	0.00
	UP	17073	0	296.9	66.3	-0.7	470	0.48
	Uttarakhand	2205	0	42.4	34.3	-0.6	103	0.72
	HP	1968	0	35.1	28.9	-0.3	124	0.00
	J&K(UT) & Ladakh(UT)	2959	0	64.9	62.3	-1.9	85	0.19
	Chandigarh	275	0	4.5	4.6	-0.1	30	0.00
WR	Chhattisgarh	5070	0	108.2	56.2	0.4	189	0.00
	Gujarat	18416	0	385.1	186.2	-0.5	766	0.00
	MP	15481	0	301.7	187.5	0.0	184	0.00
	Maharashtra	27631	0	551.4	170.6	-0.3	578	0.00
	Goa	633	0	12.7	12.2	0.3	39	0.00
	DNHDDPDCL	1213	0	27.9	28.1	-0.2	45	0.00
	AMNSIL	772	0	17.1	9.8	0.4	280	0.00
	BALCO	516	0	12.3	12.3	0.0	10	0.00
SR	Andhra Pradesh	11119	0	204.2	71.0	-1.0	437	0.00
	Telangana	12028	0	220.6	80.0	1.1	944	0.00
	Karnataka	13916	0	250.1	81.4	0.8	828	0.00
	Kerala	3646	0	76.3	61.4	-0.4	181	0.00
	Tamil Nadu	15242	0	300.9	186.6	-1.1	849	0.00
	Puducherry	386	0	8.2	7.9	-0.4	25	0.00
ER	Bihar	4981	0	90.8	80.2	-1.6	190	0.48
	DVC	3599	0	74.6	-45.4	0.4	411	0.00
	Jharkhand	1561	0	29.8	21.3	-0.8	159	2.74
	Odisha	5300	0	111.6	34.5	-2.4	164	0.00
	West Bengal	7231	0	139.0	11.8	-2.5	424	0.00
	Sikkim	130	0	2.0	2.0	0.0	16	0.00
NER	Arunachal Pradesh	153	0	2.3	2.5	-0.3	13	0.00
	Assam	1562	0	26.8	20.7	-0.4	113	0.00
	Manipur	240	0	3.4	3.5	-0.1	25	0.00
	Meghalaya	387	0	7.2	6.3	-0.1	30	0.00
	Mizoram	146	0	2.0	1.8	-0.4	8	0.00
	Nagaland	143	0	2.1	2.1	0.0	27	0.00
	Tripura	238	0	3.9	2.2	-0.1	29	0.00

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

	Bhutan	Nepal	Bangladesh
Actual (MU)	-2.6	-11.4	-22.0
Day Peak (MW)	-273.7	-505.8	-1051.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	146.1	-111.1	117.7	-152.7	0.0	0.0
Actual(MU)	138.9	-110.9	125.3	-159.0	0.3	-5.5
O/D/U/D(MU)	-7.3	0.2	7.6	-6.2	0.3	-5.5

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL	% Share
Central Sector	7388	13551	7758	2095	654	31445	50
State Sector	8185	14216	5696	2830	98	31025	50
Total	15573	27767	13454	4925	752	62470	100

G. Sourcewise generation (Gross) (MU)

	NR	WR	SR	ER	NER	All India	% Share
Coal	749	1394	621	662	15	3441	77
Lignite	30	22	48	0	0	100	2
Hydro	106	35	93	31	7	271	6
Nuclear	26	37	76	0	0	140	3
Gas, Naptha & Diesel	13	3	5	0	31	52	1
RES (Wind, Solar, Biomass & Others)	148	142	161	2	1	454	10
Total	1071	1633	1005	695	54	4458	100

Share of RES in total generation (%)	13.81	8.69	16.00	0.32	1.43	10.17
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	26.13	13.11	32.81	4.71	14.10	19.38

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.019
Based on State Max Demands	1.056

Diversity factor = Sum of regional or state maximum demands / All India maximum demand

***Source: RLDCs for solar connected to ISTS; SLDCs for embedded solar. Limited visibility of embedded solar data.**

****Note: All generation MU figures are gross**

Executive Director-NLDC

INTER-REGIONAL EXCHANGES

Import=(+ve) /Export =(-ve) for NET (MU)

Date of Reporting: 25-Jan-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	296	0.0	6.6	-6.6
3	765 kV	GAYA-VARANASI	2	120	798	0.0	11.0	-11.0
4	765 kV	SASARAM-FATEHPUR	1	0	451	0.0	7.5	-7.5
5	765 kV	GAYA-BALIA	1	0	694	0.0	9.7	-9.7
6	400 kV	PUSAULI-VARANASI	1	0	210	0.0	3.8	-3.8
7	400 kV	PUSAULI - ALLAHABAD	1	0	153	0.0	2.8	-2.8
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	0	627	0.0	7.8	-7.8
9	400 kV	PATNA-BALIA	2	0	647	0.0	11.1	-11.1
10	400 kV	NAUBATPUR-BALIA	2	0	701	0.0	12.1	-12.1
11	400 kV	BIHARSHARIFF-BALIA	2	0	350	0.0	5.1	-5.1
12	400 kV	MOTIHARI-GORAKHPUR	2	0	502	0.0	7.3	-7.3
13	400 kV	BIHARSHARIFF-VARANASI	2	35	325	0.0	4.2	-4.2
14	220 kV	SAHUPURI-KARAMNASA	1	30	113	0.0	1.1	-1.1
15	132 kV	NAGAR UNTARI-RIHAND	1	0	0	0.0	0.0	0.0
16	132 kV	GARWAH-RIHAND	1	25	0	0.4	0.0	0.4
17	132 kV	KARMANASA-SAHUPURI	1	3	49	0.0	0.0	0.0
18	132 kV	KARMANASA-CHANDAULI	1	0	0	0.0	0.0	0.0
					ER-NR	0.4	90.0	-89.6
Import/Export of ER (With WR)								
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	372	567	0.0	0.1	-0.1
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	319	863	0.0	3.8	-3.8
3	765 kV	JHARSUGUDA-DURG	2	0	549	0.0	9.5	-9.5
4	400 kV	JHARSUGUDA-RAIGARH	4	0	712	0.0	9.8	-9.8
5	400 kV	RANCHI-SIPAT	2	67	342	0.0	2.3	-2.3
6	220 kV	BUDHIPADAR-RAIGARH	1	0	227	0.0	3.6	-3.6
7	220 kV	BUDHIPADAR-KORBA	2	81	135	0.0	1.0	-1.0
					ER-WR	0.0	30.1	-30.1
Import/Export of ER (With SR)								
1	HVDC	JEYPORE-GAZUWAKA B/B	2	0	274	0.0	6.0	-6.0
2	HVDC	TALCHER-KOLAR BIPOLE	2	0	1983	0.0	40.1	-40.1
3	765 kV	ANGUL-SRIKAKULAM	2	0	3021	0.0	53.9	-53.9
4	400 kV	TALCHER-I/C	2	303	233	3.6	0.0	3.6
5	220 kV	BALIMELA-UPPER-SILERRU	1	0	0	0.0	0.0	0.0
					ER-SR	0.0	100.1	-100.1
Import/Export of ER (With NER)								
1	400 kV	BINAGURI-BONGAIGAON	2	166	6	1.8	0.0	1.8
2	400 kV	ALIPURDUAR-BONGAIGAON	2	604	0	7.4	0.0	7.4
3	220 kV	ALIPURDUAR-SALAKATI	2	58	0	0.8	0.0	0.8
					ER-NER	10.0	0.0	10.0
Import/Export of NER (With NR)								
1	HVDC	BISWANATH CHARIALI-AGRA	2	465	0	11.0	0.0	11.0
					NER-NR	11.0	0.0	11.0
Import/Export of WR (With NR)								
1	HVDC	CHAMPA-KURUKSHETRA	2	0	1757	0.0	33.2	-33.2
2	HVDC	VINDHYACHAL B/B	-	203	0	6.1	0.0	6.1
3	HVDC	MUNDRA-MOHINDERGARH	2	0	0	0.0	0.0	0.0
4	765 kV	GWALIOR-AGRA	2	201	1472	0.0	15.3	-15.3
5	765 kV	GWALIOR-PHAGI	2	0	2045	0.0	31.5	-31.5
6	765 kV	JABALPUR-ORAI	2	0	923	0.0	20.9	-20.9
7	765 kV	GWALIOR-ORAI	1	797	0	14.9	0.0	14.9
8	765 kV	SATNA-ORAI	1	0	1044	0.0	18.5	-18.5
9	765 kV	BANASKANTHA-CHITORGARH	2	2285	0	27.6	0.0	27.6
10	765 kV	VINDHYACHAL-VARANASI	2	0	2166	0.0	30.4	-30.4
11	400 kV	ZERDA-KANKROLI	1	355	0	3.7	0.0	3.7
12	400 kV	ZERDA -BHINMAL	1	467	10	4.7	0.0	4.7
13	400 kV	VINDHYACHAL -RIHAND	1	960	0	21.6	0.0	21.6
14	400 kV	RAPP-SHUJALPUR	2	400	456	1.2	0.0	1.2
15	220 kV	BHANPURA-RANPUR	1	0	0	0.0	0.0	0.0
16	220 kV	BHANPURA-MORAK	1	0	30	0.0	0.9	-0.9
17	220 kV	MEHGAON-AURAIYA	1	116	0	1.0	0.0	1.0
18	220 kV	MALANPUR-AURAIYA	1	94	0	1.4	0.0	1.4
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	82.2	150.8	-68.7
Import/Export of WR (With SR)								
1	HVDC	BHADRAWATI B/B	-	0	1009	0.0	11.4	-11.4
2	HVDC	RAIGARH-PUGALUR	2	0	3507	0.0	30.2	-30.2
3	765 kV	SOLAPUR-RAICHUR	2	930	1973	0.0	18.0	-18.0
4	765 kV	WARDHA-NIZAMABAD	2	0	2112	0.0	32.5	-32.5
5	400 kV	KOLHAPUR-KUDGI	2	1332	0	20.2	0.0	20.2
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	0	88	0.0	0.0	0.0
					WR-SR	20.2	92.2	-72.1

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)	0	0	0	-1.67
	ER	400kV TALA-BINAGURI 1,2,4 (& 400kV MALBASE - BINAGURI) i.e. BINAGURI RECEIPT (from TALA HEP (6*170MW)	200	0	51	1.42
	ER	220kV CHUKHA-BIRPARA 1&2 (& 220kV MALBASE - BIRPARA) i.e. BIRPARA RECEIPT (from CHUKHA HEP 4*84MW)	0	0	0	-1.86
	NER	132kV GELEPHU-SALAKATI	18	9	-15	-0.35
	NER	132kV MOTANGA-RANGIA	15	0	-4	-0.10
NEPAL	NR	132kV MAHENDRANAGAR-TANAKPUR(NHPC)	-74	0	-60	-1.43
	ER	NEPAL IMPORT (FROM BIHAR)	-110	-65	-86	-2.06
	ER	400kV DHALKEBAR-MUZAFFARPUR 1&2	-322	-156	-322	-7.88
BANGLADESH	ER	BHERAMARA B/B HVDC (BANGLADESH)	-929	-652	-809	-19.42
	NER	132kV COMILLA-SURAJMANI NAGAR 1&2	-122	0	-106	-2.54