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: 13th 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 12.01.2023.

महोदय/Dear Sir,

आई०ई०जी०सी०-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 12- 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 12th 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:** **13-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)	53602	60193	43299	20966	2702	180762
Peak Shortage (MW)	1569	0	500	646	0	2715
Energy Met (MU)	1196	1443	1069	432	49	4189
Hydro Gen (MU)	110	39	104	33	10	296
Wind Gen (MU)	10	99	27	-	-	136
Solar Gen (MU)*	97.53	52.61	131.59	3.60	0.72	286
Energy Shortage (MU)	27.98	0.00	3.80	3.87	0.42	36.07
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	58915	70750	56381	21974	2803	205996
Time Of Maximum Demand Met (From NLDC SCADA)	12:27	10:27	10:30	17:44	17:33	10:27

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	0.071	0.03	1.19	7.41	8.63	60.04	31.33

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	8176	0	152.1	45.2	-1.5	78	0.00
	Haryana	7891	0	150.8	78.8	-0.6	260	0.00
	Rajasthan	16603	65	301.9	116.7	-0.6	248	16.86
	Delhi	5080	0	84.7	69.7	-2.6	286	0.00
	UP	19610	0	361.2	134.8	0.6	513	7.59
	Uttarakhand	2205	75	42.7	31.2	-0.4	247	2.84
	HP	1950	0	35.4	28.9	-0.1	103	0.00
	J&K(UT) & Ladakh(UT)	2889	0	62.6	61.1	-2.6	199	0.69
	Chandigarh	298	0	4.7	5.0	-0.2	30	0.00
WR	Chhattisgarh	4895	0	105.1	54.5	-0.1	202	0.00
	Gujarat	18872	0	396.0	179.9	-3.2	658	0.00
	MP	17226	0	325.4	192.9	-3.4	563	0.00
	Maharashtra	27451	0	549.3	168.7	4.2	680	0.00
	Goa	638	0	12.7	11.8	0.6	63	0.00
	DNHDDPDCL	1233	0	28.2	28.4	-0.2	39	0.00
	AMNSIL	656	0	14.3	6.4	-0.2	264	0.00
	BALCO	521	0	12.4	12.4	0.0	15	0.00
SR	Andhra Pradesh	11028	0	199.6	92.3	0.0	488	0.00
	Telangana	13247	0	232.6	92.6	-0.2	363	0.00
	Karnataka	13765	0	240.8	74.5	2.9	850	3.80
	Kerala	3839	0	75.0	56.8	0.1	324	0.00
	Tamil Nadu	15564	0	312.2	171.8	-0.9	763	0.00
	Puducherry	395	0	8.5	8.7	-0.7	20	0.00
ER	Bihar	5753	204	100.5	90.5	-2.4	267	0.49
	DVC	3641	0	75.1	-46.7	-0.4	274	0.00
	Jharkhand	1639	92	29.2	22.4	-2.3	90	3.38
	Odisha	4746	0	93.6	36.9	-5.0	246	0.00
	West Bengal	7108	0	132.0	1.3	-1.9	283	0.00
	Sikkim	131	0	2.0	2.0	0.0	20	0.00
NER	Arunachal Pradesh	162	0	2.8	2.8	-0.1	24	0.00
	Assam	1541	0	26.3	19.6	0.6	187	0.40
	Manipur	240	0	3.4	3.3	0.1	30	0.00
	Meghalaya	405	0	7.4	6.2	-0.1	38	0.02
	Mizoram	142	0	2.2	1.8	-0.1	22	0.00
	Nagaland	149	0	2.1	2.0	-0.1	31	0.00
	Tripura	228	0	4.4	2.2	-0.2	24	0.00

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

	Bhutan	Nepal	Bangladesh
Actual (MU)	-1.2	-8.4	-22.2
Day Peak (MW)	-239.3	-330.0	-1043.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	211.2	-202.1	152.7	-160.1	-1.7	0.0
Actual(MU)	206.8	-196.1	158.8	-174.6	-1.0	-6.1
O/D/U/D(MU)	-4.4	6.0	6.0	-14.5	0.7	-6.1

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL	% Share
Central Sector	6000	12087	8548	2460	484	29578	49
State Sector	9315	11531	6848	3088	119	30900	51
Total	15315	23617	15396	5548	603	60478	100

G. Sourcewise generation (Gross) (MU)

	NR	WR	SR	ER	NER	All India	% Share
Coal	758	1495	570	641	16	3481	77
Lignite	34	11	51	0	0	96	2
Hydro	110	39	104	33	10	296	6
Nuclear	26	36	67	0	0	129	3
Gas, Naptha & Diesel	25	14	5	0	29	74	2
RES (Wind, Solar, Biomass & Others)	134	154	182	3	1	474	10
Total	1087	1749	980	677	56	4549	100

Share of RES in total generation (%)	12.36	8.80	18.58	0.43	1.29	10.42
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	24.89	13.09	35.99	5.34	18.94	19.76

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.023
Based on State Max Demands	1.068

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: 13-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	-	2	296	0.0	7.1	-7.1
3	765 kV	GAYA-VARANASI	2	0	937	0.0	14.9	-14.9
4	765 kV	SASARAM-FATEHPUR	1	0	490	0.0	7.6	-7.6
5	765 kV	GAYA-BALIA	1	0	714	0.0	12.3	-12.3
6	400 kV	PUSAULI-VARANASI	1	41	167	0.0	3.0	-3.0
7	400 kV	PUSAULI - ALLAHABAD	1	0	233	0.0	4.1	-4.1
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	0	709	0.0	8.8	-8.8
9	400 kV	PATNA-BALIA	2	0	590	0.0	11.0	-11.0
10	400 kV	NAUBATPUR-BALIA	2	0	637	0.0	11.9	-11.9
11	400 kV	BIHARSHARIFF-BALIA	2	0	404	0.0	5.5	-5.5
12	400 kV	MOTIHARI-GORAKHPUR	2	0	543	0.0	9.1	-9.1
13	400 kV	BIHARSHARIFF-VARANASI	2	0	436	0.0	6.5	-6.5
14	220 kV	SAHUPURI-KARAMNASA	1	8	122	0.0	1.2	-1.2
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	3	27	0.0	0.0	0.0
18	132 kV	KARMANASA-CHANDAULI	1	0	29	0.0	0.2	-0.2
					ER-NR	0.5	103.0	-102.5
Import/Export of ER (With WR)								
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	184	857	0.0	7.2	-7.2
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	536	1176	0.0	8.6	-8.6
3	765 kV	JHARSUGUDA-DURG	2	0	614	0.0	10.9	-10.9
4	400 kV	JHARSUGUDA-RAIGARH	4	0	827	0.0	13.5	-13.5
5	400 kV	RANCHI-SIPAT	2	106	403	0.0	4.3	-4.3
6	220 kV	BUDHIPADAR-RAIGARH	1	1	154	0.0	3.2	-3.2
7	220 kV	BUDHIPADAR-KORBA	2	13	75	0.0	0.1	-0.1
					ER-WR	0.0	47.7	-47.7
Import/Export of ER (With SR)								
1	HVDC	JEYPORE-GAZUWAKA B/B	2	0	643	0.0	14.8	-14.8
2	HVDC	TALCHER-KOLAR BIPOLE	2	15	1240	0.0	3.1	-3.1
3	765 kV	ANGUL-SRIKAKULAM	2	0	3490	0.0	57.1	-57.1
4	400 kV	TALCHER-I/C	2	1422	0	29.3	0.0	29.3
5	220 kV	BALIMELA-UPPER-SILERRU	1	0	0	0.0	0.0	0.0
					ER-SR	0.0	75.0	-75.0
Import/Export of ER (With NER)								
1	400 kV	BINAGURI-BONGAIGAON	2	157	0	2.3	0.0	2.3
2	400 kV	ALIPURDUAR-BONGAIGAON	2	548	0	8.5	0.0	8.5
3	220 kV	ALIPURDUAR-SALAKATI	2	55	0	0.8	0.0	0.8
					ER-NER	11.7	0.0	11.7
Import/Export of NER (With NR)								
1	HVDC	BISWANATH CHARIALI-AGRA	2	473	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	0	2022	0.0	25.0	-25.0
2	HVDC	VINDHYACHAL B/B	-	46	0	1.2	0.0	1.2
3	HVDC	MUNDRA-MOHINDERGARH	2	0	311	0.0	7.3	-7.3
4	765 kV	GWALIOR-AGRA	2	0	2306	0.0	28.4	-28.4
5	765 kV	GWALIOR-PHAGI	2	0	2013	0.0	33.2	-33.2
6	765 kV	JABALPUR-ORAI	2	0	1192	0.0	32.4	-32.4
7	765 kV	GWALIOR-ORAI	1	990	0	16.9	0.0	16.9
8	765 kV	SATNA-ORAI	1	0	1116	0.0	20.8	-20.8
9	765 kV	BANASKANTHA-CHITORGARH	2	1447	528	15.9	1.0	14.9
10	765 kV	VINDHYACHAL-VARANASI	2	0	2861	0.0	35.2	-35.2
11	400 kV	ZERDA-KANKROLI	1	217	126	1.7	0.0	1.7
12	400 kV	ZERDA -BHINMAL	1	448	282	1.6	0.0	1.6
13	400 kV	VINDHYACHAL -RIHAND	1	956	0	21.6	0.0	21.6
14	400 kV	RAPP-SHUJALPUR	2	264	645	1.0	3.4	-2.4
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	136	0	1.0	0.0	1.0
18	220 kV	MALANPUR-AURAIYA	1	101	17	1.6	0.0	1.6
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	62.5	188.5	-126.0
Import/Export of WR (With SR)								
1	HVDC	BHADRAWATI B/B	-	0	1009	0.0	14.6	-14.6
2	HVDC	RAIGARH-PUGALUR	2	0	4513	0.0	72.0	-72.0
3	765 kV	SOLAPUR-RAICHUR	2	630	2101	1.4	12.8	-11.4
4	765 kV	WARDHA-NIZAMABAD	2	0	3189	0.0	40.8	-40.8
5	400 kV	KOLHAPUR-KUDGI	2	1266	0	20.3	0.0	20.3
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	76	0.7	0.0	0.7
					WR-SR	22.3	140.1	-117.8

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	-1.60
	ER	400kV TALA-BINAGURI 1,2,4 (& 400kV MALBASE - BINAGURI) i.e. BINAGURI RECEIPT (from TALA HEP (6*170MW)	200	0	100	2.41
	ER	220kV CHUKHA-BIRPARA 1&2 (& 220kV MALBASE - BIRPARA) i.e. BIRPARA RECEIPT (from CHUKHA HEP 4*84MW)	0	0	0	-1.61
	NER	132kV GELEPHU-SALAKATI	-24	-1	-17	-0.40
	NER	132kV MOTANGA-RANGIA	12	-9	0	-0.01
NEPAL	NR	132kV MAHENDRANAGAR-TANAKPUR(NHPC)	-76	0	-64	-1.53
	ER	NEPAL IMPORT (FROM BIHAR)	94	9	-21	-0.50
	ER	400kV DHALKEBAR-MUZAFFARPUR 1&2	-348	-44	-263	-6.32
BANGLADESH	ER	BHERAMARA B/B HVDC (BANGLADESH)	-927	-649	-827	-19.86
	NER	132kV COMILLA-SURAJMANI NAGAR 1&2	-116	0	-98	-2.35