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: 21st 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 20.01.2023.

महोदय/Dear Sir,

आई०ई०जी०सी०-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 20- 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 20th 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: 21-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)	53726	59186	42927	21273	2713	179825
Peak Shortage (MW)	1263	0	0	507	86	1856
Energy Met (MU)	1178	1443	1080	435	49	4185
Hydro Gen (MU)	109	61	94	30	9	304
Wind Gen (MU)	32	83	61	-	-	176
Solar Gen (MU)*	98.80	53.44	121.49	2.01	0.77	277
Energy Shortage (MU)	20.56	0.00	0.00	4.42	0.33	25.31
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	59848	69866	56885	22119	2852	208067
Time Of Maximum Demand Met (From NLDC SCADA)	10:57	10:32	10:22	18:48	17:55	10:26

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	0.272	8.30	4.76	17.34	30.39	46.35	23.26

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	7973	0	151.2	39.4	-2.0	69	0.90
	Haryana	7320	0	139.5	68.9	-1.1	129	2.22
	Rajasthan	16664	61	302.6	99.4	0.5	233	15.53
	Delhi	4863	0	81.3	73.4	-1.6	214	0.20
	UP	19310	0	354.2	104.8	-3.0	359	0.00
	Uttarakhand	2280	0	42.4	32.8	-1.5	176	1.71
	HP	2006	0	36.8	29.6	0.6	201	0.00
	J&K(UT) & Ladakh(UT)	2969	0	65.4	62.8	-1.5	139	0.00
	Chandigarh	288	0	4.9	5.0	-0.1	39	0.00
WR	Chhattisgarh	4922	0	106.7	53.8	0.5	197	0.00
	Gujarat	18684	0	391.1	193.4	1.0	967	0.00
	MP	16662	0	326.2	190.0	2.5	850	0.00
	Maharashtra	26720	0	547.5	164.6	-1.9	519	0.00
	Goa	639	0	13.9	12.5	0.9	61	0.00
	DNHDDPDCL	1220	0	28.1	28.3	-0.2	81	0.00
	AMNSIL	812	0	17.4	10.9	-0.1	240	0.00
	BALCO	515	0	12.3	12.3	0.0	30	0.00
SR	Andhra Pradesh	11114	0	202.2	71.3	0.1	477	0.00
	Telangana	13662	0	236.6	109.9	0.0	543	0.00
	Karnataka	14178	0	249.7	76.8	-2.3	783	0.00
	Kerala	3790	0	74.3	54.9	-0.2	192	0.00
	Tamil Nadu	15415	0	309.0	166.9	2.5	1392	0.00
	Puducherry	386	0	8.3	8.2	-0.4	97	0.00
ER	Bihar	5460	71	96.4	87.2	-1.2	261	0.48
	DVC	3581	0	74.6	-41.3	0.7	276	0.00
	Jharkhand	1558	283	28.9	22.4	-1.9	156	3.94
	Odisha	5142	0	96.2	27.6	-1.3	370	0.00
	West Bengal	7213	0	136.9	5.4	-2.3	223	0.00
	Sikkim	130	0	2.1	2.0	0.1	29	0.00
NER	Arunachal Pradesh	164	0	2.5	2.5	-0.1	34	0.00
	Assam	1581	0	26.9	21.4	-0.3	116	0.22
	Manipur	237	0	3.6	3.5	0.1	35	0.11
	Meghalaya	408	0	7.4	6.4	-0.1	27	0.00
	Mizoram	153	0	2.3	1.8	-0.2	8	0.00
	Nagaland	138	0	2.1	2.1	-0.1	19	0.00
	Tripura	236	0	3.9	2.7	-0.4	16	0.00

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

	Bhutan	Nepal	Bangladesh
Actual (MU)	-3.6	-10.4	-21.2
Day Peak (MW)	-304.0	-297.8	-1045.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	163.9	-125.9	115.4	-157.5	4.0	0.0
Actual(MU)	148.6	-114.1	117.7	-160.2	2.8	-5.2
O/D/U/D(MU)	-15.3	11.7	2.3	-2.8	-1.2	-5.2

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL	% Share
Central Sector	6869	13551	7258	2255	769	30702	49
State Sector	8085	14498	6141	3410	140	32274	51
Total	14954	28049	13399	5665	909	62975	100

G. Sourcewise generation (Gross) (MU)

	NR	WR	SR	ER	NER	All India	% Share
Coal	778	1414	606	657	11	3466	76
Lignite	32	12	46	0	0	90	2
Hydro	109	61	94	30	9	304	7
Nuclear	26	37	76	0	0	140	3
Gas, Naptha & Diesel	15	8	5	0	31	59	1
RES (Wind, Solar, Biomass & Others)	158	139	202	3	1	502	11
Total	1117	1672	1030	690	52	4560	100

Share of RES in total generation (%)	14.14	8.30	19.62	0.38	1.49	11.01
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	26.23	14.18	36.16	4.76	19.58	20.73

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.017
Based on State Max Demands	1.050

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: 21-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	-	1	294	0.0	6.1	-6.1
3	765 kV	GAYA-VARANASI	2	0	712	0.0	11.2	-11.2
4	765 kV	SASARAM-FATEHPUR	1	0	484	0.0	7.9	-7.9
5	765 kV	GAYA-BALIA	1	0	652	0.0	10.3	-10.3
6	400 kV	PUSAULI-VARANASI	1	10	184	0.0	3.4	-3.4
7	400 kV	PUSAULI - ALLAHABAD	1	0	168	0.0	2.6	-2.6
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	0	614	0.0	7.8	-7.8
9	400 kV	PATNA-BALIA	2	0	587	0.0	11.3	-11.3
10	400 kV	NAUBATPUR-BALIA	2	0	636	0.0	11.9	-11.9
11	400 kV	BIHARSHARIFF-BALIA	2	0	358	0.0	5.8	-5.8
12	400 kV	MOTIHARI-GORAKHPUR	2	0	434	0.0	7.4	-7.4
13	400 kV	BIHARSHARIFF-VARANASI	2	0	306	0.0	4.9	-4.9
14	220 kV	SAHUPURI-KARAMNASA	1	0	120	0.0	1.7	-1.7
15	132 kV	NAGAR UNTARI-RIHAND	1	0	0	0.0	0.0	0.0
16	132 kV	GARWAH-RIHAND	1	25	0	0.5	0.0	0.5
17	132 kV	KARMANASA-SAHUPURI	1	3	0	0.0	0.0	0.0
18	132 kV	KARMANASA-CHANDAULI	1	0	0	0.0	0.0	0.0
					ER-NR	0.5	92.2	-91.7
Import/Export of ER (With WR)								
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	1108	345	5.7	0.0	5.7
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	743	676	0.0	0.7	-0.7
3	765 kV	JHARSUGUDA-DURG	2	0	451	0.0	8.5	-8.5
4	400 kV	JHARSUGUDA-RAIGARH	4	0	687	0.0	11.6	-11.6
5	400 kV	RANCHI-SIPAT	2	159	274	0.0	2.3	-2.3
6	220 kV	BUDHIPADAR-RAIGARH	1	0	200	0.0	3.4	-3.4
7	220 kV	BUDHIPADAR-KORBA	2	40	112	0.0	0.9	-0.9
					ER-WR	5.7	27.3	-21.5
Import/Export of ER (With SR)								
1	HVDC	JEYPORE-GAZUWAKA B/B	2	0	650	0.0	8.3	-8.3
2	HVDC	TALCHER-KOLAR BIPOLE	2	0	2460	0.0	35.3	-35.3
3	765 kV	ANGUL-SRIKAKULAM	2	0	3707	0.0	61.2	-61.2
4	400 kV	TALCHER-I/C	2	1122	645	8.7	0.0	8.7
5	220 kV	BALIMELA-UPPER-SILERRU	1	0	0	0.0	0.0	0.0
					ER-SR	0.0	104.8	-104.8
Import/Export of ER (With NER)								
1	400 kV	BINAGURI-BONGAIGAON	2	132	71	0.9	0.2	0.7
2	400 kV	ALIPURDUAR-BONGAIGAON	2	485	69	6.0	0.0	6.0
3	220 kV	ALIPURDUAR-SALAKATI	2	46	5	0.6	0.0	0.6
					ER-NER	7.5	0.2	7.3
Import/Export of NER (With NR)								
1	HVDC	BISWANATH CHARIALI-AGRA	2	467	0	11.2	0.0	11.2
					NER-NR	11.2	0.0	11.2
Import/Export of WR (With NR)								
1	HVDC	CHAMPA-KURUKSHETRA	2	0	2020	0.0	46.1	-46.1
2	HVDC	VINDHYACHAL B/B	-	439	0	12.2	0.0	12.2
3	HVDC	MUNDRA-MOHINDERGARH	2	0	0	0.0	0.0	0.0
4	765 kV	GWALIOR-AGRA	2	23	1818	0.0	18.3	-18.3
5	765 kV	GWALIOR-PHAGI	2	0	1667	0.0	27.6	-27.6
6	765 kV	JABALPUR-ORAI	2	0	1056	0.0	24.5	-24.5
7	765 kV	GWALIOR-ORAI	1	947	0	15.5	0.0	15.5
8	765 kV	SATNA-ORAI	1	0	1002	0.0	17.7	-17.7
9	765 kV	BANASKANTHA-CHITORGARH	2	2048	47	24.9	0.0	24.9
10	765 kV	VINDHYACHAL-VARANASI	2	0	2447	0.0	30.0	-30.0
11	400 kV	ZERDA-KANKROLI	1	335	11	3.8	0.0	3.8
12	400 kV	ZERDA -BHINMAL	1	485	35	6.3	0.0	6.3
13	400 kV	VINDHYACHAL -RIHAND	1	955	0	22.0	0.0	22.0
14	400 kV	RAPP-SHUJALPUR	2	334	462	2.3	1.4	0.9
15	220 kV	BHANPURA-RANPUR	1	0	0	0.0	0.0	0.0
16	220 kV	BHANPURA-MORAK	1	0	30	0.0	1.6	-1.6
17	220 kV	MEHGAON-AURAIYA	1	126	0	1.3	0.0	1.3
18	220 kV	MALANPUR-AURAIYA	1	100	0	1.9	0.0	1.9
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	90.2	167.2	-77.0
Import/Export of WR (With SR)								
1	HVDC	BHADRAWATI B/B	-	689	1016	0.0	11.0	-11.0
2	HVDC	RAIGARH-PUGALUR	2	2400	3001	0.0	2.6	-2.6
3	765 kV	SOLAPUR-RAICHUR	2	560	3026	0.9	20.8	-19.9
4	765 kV	WARDHA-NIZAMABAD	2	0	3775	0.0	49.4	-49.4
5	400 kV	KOLHAPUR-KUDGI	2	1538	0	24.2	0.0	24.2
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	87	0.0	0.0	0.0
					WR-SR	25.1	83.8	-58.6

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	-2.11
	ER	400kV TALA-BINAGURI 1,2,4 (& 400kV MALBASE - BINAGURI) i.e. BINAGURI RECEIPT (from TALA HEP (6*170MW)	156	0	17	0.40
	ER	220kV CHUKHA-BIRPARA 1&2 (& 220kV MALBASE - BIRPARA) i.e. BIRPARA RECEIPT (from CHUKHA HEP 4*84MW)	0	0	0	-2.20
	NER	132kV GELEPHU-SALAKATI	21	-8	15	0.35
	NER	132kV MOTANGA-RANGIA	8	-8	0	0.00
NEPAL	NR	132kV MAHENDRANAGAR-TANAKPUR(NHPC)	-75	0	-62	-1.50
	ER	NEPAL IMPORT (FROM BIHAR)	109	71	-85	-2.05
	ER	400kV DHALKEBAR-MUZAFFARPUR 1&2	-332	-56	-286	-6.87
BANGLADESH	ER	BHERAMARA B/B HVDC (BANGLADESH)	-931	-648	-791	-18.99
	NER	132kV COMILLA-SURAJMANI NAGAR 1&2	-114	0	-93	-2.22