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: 22nd 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 21.01.2023.

महोदय/Dear Sir,

आई०ई०जी०सी०-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 21- 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 21st 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: 22-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)	52799	58294	42972	20802	2613	177480
Peak Shortage (MW)	619	0	0	362	7	988
Energy Met (MU)	1162	1430	1070	435	48	4145
Hydro Gen (MU)	104	60	90	32	9	295
Wind Gen (MU)	36	87	47	-	-	171
Solar Gen (MU)*	94.31	52.94	114.05	2.17	0.77	264
Energy Shortage (MU)	7.02	0.00	1.77	2.45	0.56	11.80
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	58842	69415	55387	21881	2783	204625
Time Of Maximum Demand Met (From NLDC SCADA)	10:15	10:33	09:24	18:42	17:40	10:10

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	0.061	0.00	0.24	4.96	5.21	68.79	26.00

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	7892	0	150.8	41.1	-0.4	190	0.40
	Haryana	7494	0	142.4	73.6	0.3	218	0.33
	Rajasthan	16872	0	307.4	107.5	-2.5	254	5.07
	Delhi	4482	0	75.9	68.0	-1.8	215	0.00
	UP	19311	0	338.9	86.0	-0.4	523	0.10
	Uttarakhand	2324	150	43.5	31.8	0.1	172	0.92
	HP	1961	0	35.4	28.6	0.2	136	0.00
	J&K(UT) & Ladakh(UT)	2953	0	63.1	62.1	-3.4	99	0.20
	Chandigarh	272	0	4.4	4.8	-0.5	39	0.00
WR	Chhattisgarh	4932	0	106.8	54.9	-0.4	219	0.00
	Gujarat	18606	0	386.6	195.9	0.0	726	0.00
	MP	16227	0	316.1	193.6	0.0	292	0.00
	Maharashtra	27180	0	548.9	170.5	-2.0	565	0.00
	Goa	631	0	13.6	12.3	0.9	28	0.00
	DNHDDPDCL	1219	0	27.8	28.2	-0.4	42	0.00
	AMNSIL	778	0	17.6	10.4	0.2	294	0.00
	BALCO	514	0	12.3	12.4	-0.1	3	0.00
SR	Andhra Pradesh	10925	0	202.0	75.6	0.4	437	0.00
	Telangana	13540	0	233.7	102.0	0.7	790	0.00
	Karnataka	13926	0	247.2	78.6	-0.1	957	1.77
	Kerala	3690	0	73.7	55.9	0.2	184	0.00
	Tamil Nadu	15384	0	305.2	165.8	0.2	728	0.00
	Puducherry	389	0	8.4	8.3	-0.4	33	0.00
ER	Bihar	5220	0	91.2	84.2	-4.5	117	0.07
	DVC	3573	0	75.0	-37.0	0.2	408	0.00
	Jharkhand	1633	216	29.8	22.5	-1.8	137	2.39
	Odisha	5113	0	100.7	33.9	-1.0	142	0.00
	West Bengal	7250	0	136.4	5.5	-2.5	184	0.00
	Sikkim	124	0	2.0	2.0	0.0	21	0.00
NER	Arunachal Pradesh	164	0	2.4	2.6	-0.2	30	0.00
	Assam	1561	0	26.9	19.9	0.5	135	0.56
	Manipur	245	0	3.5	3.6	0.0	30	0.00
	Meghalaya	396	0	7.3	6.3	-0.1	31	0.00
	Mizoram	145	0	2.2	1.8	-0.2	18	0.00
	Nagaland	130	0	2.1	2.0	0.0	26	0.00
	Tripura	235	0	3.9	2.6	-0.1	46	0.00

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

	Bhutan	Nepal	Bangladesh
Actual (MU)	-1.6	-9.3	-21.8
Day Peak (MW)	-267.5	-466.9	-1049.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	158.7	-126.5	116.1	-151.1	2.7	0.0
Actual(MU)	147.9	-122.0	127.0	-160.1	2.9	-4.4
O/D/U/D(MU)	-10.9	4.4	10.9	-9.1	0.2	-4.4

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL	% Share
Central Sector	7128	14051	7508	2255	769	31710	50
State Sector	7290	15063	6708	2600	140	31801	50
Total	14418	29114	14216	4855	909	63511	100

G. Sourcewise generation (Gross) (MU)

	NR	WR	SR	ER	NER	All India	% Share
Coal	772	1397	615	645	10	3439	76
Lignite	30	13	45	0	0	87	2
Hydro	104	60	90	32	9	295	7
Nuclear	26	37	76	0	0	140	3
Gas, Naptha & Diesel	16	9	5	0	31	61	1
RES (Wind, Solar, Biomass & Others)	157	145	182	2	1	488	11
Total	1105	1660	1014	679	51	4509	100

Share of RES in total generation (%)	14.23	8.75	18.00	0.31	1.51	10.82
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	26.04	14.59	34.43	4.98	19.15	20.46

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.018
Based on State Max Demands	1.062

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: 22-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	7.0	-7.0
3	765 kV	GAYA-VARANASI	2	0	596	0.0	10.1	-10.1
4	765 kV	SASARAM-FATEHPUR	1	0	410	0.0	7.1	-7.1
5	765 kV	GAYA-BALIA	1	0	700	0.0	10.2	-10.2
6	400 kV	PUSAULI-VARANASI	1	0	300	0.0	4.1	-4.1
7	400 kV	PUSAULI -ALLAHABAD	1	0	163	0.0	2.8	-2.8
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	0	631	0.0	7.9	-7.9
9	400 kV	PATNA-BALIA	2	0	610	0.0	11.4	-11.4
10	400 kV	NAUBATPUR-BALIA	2	0	660	0.0	12.6	-12.6
11	400 kV	BIHARSHARIFF-BALIA	2	0	414	0.0	5.6	-5.6
12	400 kV	MOTIHARI-GORAKHPUR	2	0	470	0.0	7.5	-7.5
13	400 kV	BIHARSHARIFF-VARANASI	2	0	256	0.0	4.2	-4.2
14	220 kV	SAHUPURI-KARAMNASA	1	54	86	0.0	0.7	-0.7
15	132 kV	NAGAR UNTARI-RIHAND	1	0	0	0.0	0.0	0.0
16	132 kV	GARWAH-RIHAND	1	25	0	0.6	0.0	0.6
17	132 kV	KARMANASA-SAHUPURI	1	4	0	0.0	0.0	0.0
18	132 kV	KARMANASA-CHANDAULI	1	0	0	0.0	0.0	0.0
					ER-NR	0.6	91.2	-90.6
Import/Export of ER (With WR)								
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	559	281	1.8	0.0	1.8
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	560	732	0.0	3.4	-3.4
3	765 kV	JHARSUGUDA-DURG	2	0	502	0.0	9.1	-9.1
4	400 kV	JHARSUGUDA-RAIGARH	4	0	593	0.0	10.3	-10.3
5	400 kV	RANCHI-SIPAT	2	110	238	0.0	2.2	-2.2
6	220 kV	BUDHIPADAR-RAIGARH	1	0	189	0.0	3.2	-3.2
7	220 kV	BUDHIPADAR-KORBA	2	59	110	0.0	0.9	-0.9
					ER-WR	1.8	29.0	-27.1
Import/Export of ER (With SR)								
1	HVDC	JEYPORE-GAZUWAKA B/B	2	0	654	0.0	17.0	-17.0
2	HVDC	TALCHER-KOLAR BIPOLE	2	0	1935	0.0	32.9	-32.9
3	765 kV	ANGUL-SRIKAKULAM	2	0	2773	0.0	51.3	-51.3
4	400 kV	TALCHER-I/C	2	1036	189	10.7	0.0	10.7
5	220 kV	BALIMELA-UPPER-SILERRU	1	0	0	0.0	0.0	0.0
					ER-SR	0.0	101.2	-101.2
Import/Export of ER (With NER)								
1	400 kV	BINAGURI-BONGAIGAON	2	134	91	1.3	0.1	1.2
2	400 kV	ALIPURDUAR-BONGAIGAON	2	495	173	6.1	0.0	6.1
3	220 kV	ALIPURDUAR-SALAKATI	2	46	20	0.6	0.0	0.6
					ER-NER	8.0	0.1	7.9
Import/Export of NER (With NR)								
1	HVDC	BISWANATH CHARIALI-AGRA	2	466	0	11.1	0.0	11.1
					NER-NR	11.1	0.0	11.1
Import/Export of WR (With NR)								
1	HVDC	CHAMPA-KURUKSHETRA	2	0	2022	0.0	38.9	-38.9
2	HVDC	VINDHYACHAL B/B	-	445	0	11.8	0.0	11.8
3	HVDC	MUNDRA-MOHINDERGARH	2	0	0	0.0	0.0	0.0
4	765 kV	GWALIOR-AGRA	2	109	1704	0.0	18.2	-18.2
5	765 kV	GWALIOR-PHAGI	2	0	1849	0.0	30.4	-30.4
6	765 kV	JABALPUR-ORAI	2	0	999	0.0	24.0	-24.0
7	765 kV	GWALIOR-ORAI	1	927	0	15.6	0.0	15.6
8	765 kV	SATNA-ORAI	1	0	1048	0.0	19.2	-19.2
9	765 kV	BANASKANTHA-CHITORGARH	2	2040	0	23.5	0.0	23.5
10	765 kV	VINDHYACHAL-VARANASI	2	0	2513	0.0	31.8	-31.8
11	400 kV	ZERDA-KANKROLI	1	354	0	3.5	0.0	3.5
12	400 kV	ZERDA -BHINMAL	1	497	35	4.9	0.0	4.9
13	400 kV	VINDHYACHAL -RIHAND	1	961	0	21.7	0.0	21.7
14	400 kV	RAPP-SHUJALPUR	2	415	359	2.1	1.2	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	145	0	1.2	0.0	1.2
18	220 kV	MALANPUR-AURAIYA	1	113	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	86.1	165.4	-79.3
Import/Export of WR (With SR)								
1	HVDC	BHADRAWATI B/B	-	0	1012	0.0	10.4	-10.4
2	HVDC	RAIGARH-PUGALUR	2	0	4004	0.0	31.9	-31.9
3	765 kV	SOLAPUR-RAICHUR	2	1016	1605	2.2	13.6	-11.4
4	765 kV	WARDHA-NIZAMABAD	2	0	2701	0.0	38.8	-38.8
5	400 kV	KOLHAPUR-KUDGI	2	1342	0	21.1	0.0	21.1
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	1.5	0.0	1.5
					WR-SR	24.8	94.7	-69.9

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	-1.90
	ER	400kV TALA-BINAGURI 1,2,4 (& 400kV MALBASE - BINAGURI) i.e. BINAGURI RECEIPT (from TALA HEP (6*170MW)	184	51	63	1.62
	ER	220kV CHUKHA-BIRPARA 1&2 (& 220kV MALBASE - BIRPARA) i.e. BIRPARA RECEIPT (from CHUKHA HEP 4*84MW)	0	0	0	-1.76
	NER	132kV GELEPHU-SALAKATI	19	5	15	0.35
	NER	132kV MOTANGA-RANGIA	9	-10	2	0.04
NEPAL	NR	132kV MAHENDRANAGAR-TANAKPUR(NHPC)	-74	0	-61	-1.46
	ER	NEPAL IMPORT (FROM BIHAR)	-105	-62	-76	-1.82
	ER	400kV DHALKEBAR-MUZAFFARPUR 1&2	-288	-76	-249	-5.98
BANGLADESH	ER	BHERAMARA B/B HVDC (BANGLADESH)	-930	-649	-810	-19.44
	NER	132kV COMILLA-SURAJMANI NAGAR 1&2	-119	0	-98	-2.36