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: 19th 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 18.01.2023.

महोदय/Dear Sir,

आई०ई०जी०सी०-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 18- 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 18th 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:** **19-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)	55314	59355	42776	21014	2788	181247
Peak Shortage (MW)	1240	0	0	349	0	1589
Energy Met (MU)	1228	1428	1042	430	48	4176
Hydro Gen (MU)	106	52	83	29	9	280
Wind Gen (MU)	19	76	65	-	-	161
Solar Gen (MU)*	117.30	57.58	127.88	4.49	0.54	308
Energy Shortage (MU)	8.84	0.00	0.00	3.10	0.04	11.98
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	63682	69724	55578	21576	2837	210618
Time Of Maximum Demand Met (From NLDC SCADA)	09:59	10:00	09:51	18:28	17:51	10:00

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	0.070	0.00	0.36	14.49	14.85	63.22	21.93

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	9051	0	162.2	46.3	-0.5	161	1.30
	Haryana	7961	0	152.2	76.5	0.2	181	0.40
	Rajasthan	17020	193	306.4	105.4	-3.2	161	6.28
	Delhi	5079	0	85.5	75.4	-2.4	278	0.00
	UP	20440	0	370.0	110.6	-0.4	314	0.00
	Uttarakhand	2428	0	45.4	34.1	0.5	180	0.48
	HP	2042	0	36.9	29.8	0.6	212	0.01
	J&K(UT) & Ladakh(UT)	3019	0	64.8	62.2	-1.7	47	0.37
	Chandigarh	295	0	4.9	4.7	0.2	41	0.00
WR	Chhattisgarh	5023	0	105.4	58.5	0.1	312	0.00
	Gujarat	17875	0	376.7	185.6	-2.0	684	0.00
	MP	17019	0	326.3	191.2	0.0	537	0.00
	Maharashtra	27470	0	548.4	173.7	-0.3	537	0.00
	Goa	651	0	14.2	12.3	1.4	34	0.00
	DNHDDPDCL	1197	0	27.7	28.0	-0.3	37	0.00
	AMNSIL	768	0	16.7	10.9	-0.1	242	0.00
	BALCO	514	0	12.3	12.2	0.1	90	0.00
SR	Andhra Pradesh	10940	0	195.2	64.9	-0.6	446	0.00
	Telangana	13434	0	235.1	98.4	-0.4	852	0.00
	Karnataka	13675	0	242.6	86.0	-0.2	924	0.00
	Kerala	3880	0	76.5	56.4	0.2	187	0.00
	Tamil Nadu	14703	0	285.5	146.5	-0.1	723	0.00
	Puducherry	365	0	7.0	7.7	-0.7	70	0.00
ER	Bihar	5539	0	96.7	86.9	-2.1	225	0.28
	DVC	3531	0	73.8	-45.3	1.4	401	0.00
	Jharkhand	1621	77	29.6	21.9	-1.5	100	2.82
	Odisha	4436	0	91.2	22.8	-0.8	288	0.00
	West Bengal	6978	0	136.8	6.5	-1.5	197	0.00
	Sikkim	128	0	2.0	2.1	-0.1	30	0.00
NER	Arunachal Pradesh	166	0	2.8	2.8	-0.1	21	0.00
	Assam	1532	0	26.3	21.4	-0.4	140	0.04
	Manipur	249	0	3.6	3.5	0.1	38	0.00
	Meghalaya	402	0	7.5	6.2	-0.1	25	0.00
	Mizoram	153	0	2.3	1.8	-0.1	17	0.00
	Nagaland	149	0	2.1	2.0	0.0	30	0.00
	Tripura	235	0	3.9	2.2	0.1	46	0.00

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

	Bhutan	Nepal	Bangladesh
Actual (MU)	-3.0	-10.7	-23.8
Day Peak (MW)	-315.0	-507.9	-1054.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	193.6	-107.7	88.6	-175.2	0.8	0.0
Actual(MU)	182.9	-99.2	84.2	-176.8	1.5	-7.4
O/D/U/D(MU)	-10.7	8.6	-4.4	-1.6	0.8	-7.4

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL	% Share
Central Sector	6789	14211	7548	2255	734	31537	53
State Sector	5855	14123	6218	2000	118	28314	47
Total	12644	28334	13766	4255	852	59850	100

G. Sourcewise generation (Gross) (MU)

	NR	WR	SR	ER	NER	All India	% Share
Coal	793	1388	600	664	15	3461	76
Lignite	32	9	49	0	0	90	2
Hydro	106	52	83	29	9	280	6
Nuclear	26	37	76	0	0	139	3
Gas, Naptha & Diesel	15	6	5	0	29	54	1
RES (Wind, Solar, Biomass & Others)	164	136	213	5	1	519	11
Total	1136	1628	1026	698	54	4542	100

Share of RES in total generation (%)	14.48	8.36	20.78	0.65	1.00	11.42
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	26.08	13.85	36.26	4.85	18.05	20.64

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.013
Based on State Max Demands	1.044

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: 19-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	297	0.0	6.7	-6.7
3	765 kV	GAYA-VARANASI	2	0	840	0.0	13.6	-13.6
4	765 kV	SASARAM-FATEHPUR	1	0	468	0.0	8.3	-8.3
5	765 kV	GAYA-BALIA	1	0	717	0.0	12.1	-12.1
6	400 kV	PUSAULI-VARANASI	1	0	167	0.0	3.1	-3.1
7	400 kV	PUSAULI -ALLAHABAD	1	0	186	0.0	3.5	-3.5
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	0	622	0.0	9.3	-9.3
9	400 kV	PATNA-BALIA	2	0	608	0.0	12.6	-12.6
10	400 kV	NAUBATPUR-BALIA	2	0	666	0.0	13.0	-13.0
11	400 kV	BIHARSHARIFF-BALIA	2	0	373	0.0	6.3	-6.3
12	400 kV	MOTIHARI-GORAKHPUR	2	0	475	0.0	8.5	-8.5
13	400 kV	BIHARSHARIFF-VARANASI	2	0	385	0.0	5.9	-5.9
14	220 kV	SAHUPURI-KARAMNASA	1	0	117	0.0	1.5	-1.5
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	0	0.0	0.0	0.0
18	132 kV	KARMANASA-CHANDAULI	1	0	0	0.0	0.0	0.0
					ER-NR	0.4	104.4	-104.0
Import/Export of ER (With WR)								
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	598	762	0.0	4.7	-4.7
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	716	406	0.9	0.0	0.9
3	765 kV	JHARSUGUDA-DURG	2	0	544	0.0	10.1	-10.1
4	400 kV	JHARSUGUDA-RAIGARH	4	0	752	0.0	11.6	-11.6
5	400 kV	RANCHI-SIPAT	2	159	203	0.0	1.5	-1.5
6	220 kV	BUDHIPADAR-RAIGARH	1	0	188	0.0	3.1	-3.1
7	220 kV	BUDHIPADAR-KORBA	2	25	177	0.0	1.9	-1.9
					ER-WR	0.9	32.9	-31.9
Import/Export of ER (With SR)								
1	HVDC	JEYPORE-GAZUWAKA B/B	2	0	335	0.0	7.6	-7.6
2	HVDC	TALCHER-KOLAR BIPOLE	2	0	1986	0.0	35.6	-35.6
3	765 kV	ANGUL-SRIKAKULAM	2	0	3195	0.0	57.6	-57.6
4	400 kV	TALCHER-I/C	2	636	245	8.0	0.0	8.0
5	220 kV	BALIMELA-UPPER-SILERRU	1	0	0	0.0	0.0	0.0
					ER-SR	0.0	100.9	-100.9
Import/Export of ER (With NER)								
1	400 kV	BINAGURI-BONGAIGAON	2	172	27	1.5	0.0	1.5
2	400 kV	ALIPURDUAR-BONGAIGAON	2	623	0	6.9	0.0	6.9
3	220 kV	ALIPURDUAR-SALAKATI	2	63	2	0.7	0.0	0.7
					ER-NER	9.1	0.0	9.1
Import/Export of NER (With NR)								
1	HVDC	BISWANATH CHARIALI-AGRA	2	476	0	11.5	0.0	11.5
					NER-NR	11.5	0.0	11.5
Import/Export of WR (With NR)								
1	HVDC	CHAMPA-KURUKSHETRA	2	0	2010	0.0	35.1	-35.1
2	HVDC	VINDHYACHAL B/B	-	439	0	12.2	0.0	12.2
3	HVDC	MUNDRA-MOHINDERGARH	2	0	262	0.0	6.2	-6.2
4	765 kV	GWALIOR-AGRA	2	0	1928	0.0	24.7	-24.7
5	765 kV	GWALIOR-PHAGI	2	0	1860	0.0	33.7	-33.7
6	765 kV	JABALPUR-ORAI	2	0	1126	0.0	29.8	-29.8
7	765 kV	GWALIOR-ORAI	1	962	0	16.2	0.0	16.2
8	765 kV	SATNA-ORAI	1	0	1058	0.0	19.5	-19.5
9	765 kV	BANASKANTHA-CHITORGARH	2	2359	0	26.4	0.0	26.4
10	765 kV	VINDHYACHAL-VARANASI	2	0	2660	0.0	38.3	-38.3
11	400 kV	ZERDA-KANKROLI	1	411	0	3.6	0.0	3.6
12	400 kV	ZERDA -BHINMAL	1	567	64	4.4	0.0	4.4
13	400 kV	VINDHYACHAL -RIHAND	1	952	0	22.0	0.0	22.0
14	400 kV	RAPP-SHUJALPUR	2	497	506	2.3	2.8	-0.5
15	220 kV	BHANPURA-RANPUR	1	0	0	0.0	0.0	0.0
16	220 kV	BHANPURA-MORAK	1	0	30	0.0	1.6	-1.6
17	220 kV	MEHGAON-AURAIYA	1	118	0	0.8	0.0	0.8
18	220 kV	MALANPUR-AURAIYA	1	86	5	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	89.5	191.6	-102.1
Import/Export of WR (With SR)								
1	HVDC	BHADRAWATI B/B	-	984	1006	16.8	1.2	15.6
2	HVDC	RAIGARH-PUGALUR	2	1447	2500	0.0	10.7	-10.7
3	765 kV	SOLAPUR-RAICHUR	2	625	2079	0.6	12.8	-12.1
4	765 kV	WARDHA-NIZAMABAD	2	0	3585	0.0	48.9	-48.9
5	400 kV	KOLHAPUR-KUDGI	2	1568	0	25.7	0.0	25.7
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	84	1.4	0.0	1.4
					WR-SR	44.5	73.6	-29.0

INTERNATIONAL EXCHANGES

Import(+ve)/Export(-ve)

State	Region	Line Name	Max (MW)	Min (MW)	Avg (MW)	Energy Exchange (MU)
BHUTAN	ER	400kV MANGDECHHU-ALIPURDUAR I,2&3 i.e. ALIPURDUAR RECEIPT (from MANGDECHU HEP 4*180MW)	0	0	0	-2.00
	ER	400kV TALA-BINAGURI I,2,4 (& 400kV MALBASE - BINAGURI) i.e. BINAGURI RECEIPT (from TALA HEP (6*170MW)	238	0	76	2.01
	ER	220kV CHUKHA-BIRPARA 1&2 (& 220kV MALBASE - BIRPARA) i.e. BIRPARA RECEIPT (from CHUKHA HEP 4*84MW)	0	0	0	-2.57
	NER	132kV GELEPHU-SALAKATI	-22	-6	-16	-0.39
	NER	132kV MOTANGA-RANGIA	-15	0	-4	-0.09
NEPAL	NR	132kV MAHENDRANAGAR-TANAKPUR(NHPC)	-77	0	-67	-1.61
	ER	NEPAL IMPORT (FROM BIHAR)	-105	-59	-82	-1.97
	ER	400kV DHALKEBAR-MUZAFFARPUR 1&2	-326	-224	-297	-7.13
BANGLADESH	ER	BHERAMARA B/B HVDC (BANGLADESH)	-928	-786	-889	-21.35
	NER	132kV COMILLA-SURAJMANI NAGAR 1&2	-126	0	-102	-2.44