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: 9th 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 08.01.2023.

महोदय/Dear Sir,

आई०ई०जी०सी०-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 08- 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 8th 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: 09-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)	55510	56341	38826	20163	2558	173398
Peak Shortage (MW)	405	0	0	552	0	957
Energy Met (MU)	1202	1397	983	415	46	4043
Hydro Gen (MU)	109	38	76	40	9	272
Wind Gen (MU)	12	43	53	-	-	108
Solar Gen (MU)*	102.61	52.52	109.50	2.56	0.85	268
Energy Shortage (MU)	5.92	0.00	0.00	4.30	0.00	10.22
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	60940	69628	51758	21392	2602	201494
Time Of Maximum Demand Met (From NLDC SCADA)	11:55	10:41	09:56	18:28	17:44	10:57

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	0.052	0.00	0.00	4.91	4.91	67.38	27.72

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	8071	0	152.7	42.7	-1.2	191	0.00
	Haryana	7179	0	137.2	73.7	-0.7	194	0.00
	Rajasthan	16480	207	315.5	118.1	-0.2	310	3.85
	Delhi	5137	0	81.5	75.2	-1.7	297	0.00
	UP	20477	0	371.4	119.0	0.4	460	1.14
	Uttarakhand	2193	150	43.7	31.7	1.2	308	0.75
	HP	1866	0	32.8	26.5	-0.3	135	0.00
	J&K(UT) & Ladakh(UT)	2872	0	62.1	61.6	-3.5	203	0.18
	Chandigarh	277	0	4.8	4.8	0.0	37	0.00
WR	Chhattisgarh	4715	0	98.8	48.7	-2.7	204	0.00
	Gujarat	19637	0	386.2	224.3	0.4	1016	0.00
	MP	16528	0	320.3	185.7	0.0	440	0.00
	Maharashtra	25834	0	522.2	182.2	-2.9	583	0.00
	Goa	577	0	12.1	11.3	0.4	112	0.00
	DNHDDPDCL	1166	0	27.2	27.3	-0.1	35	0.00
	AMNSIL	771	0	17.6	11.7	-0.3	270	0.00
	BALCO	518	0	12.3	12.3	0.0	0	0.00
SR	Andhra Pradesh	10254	0	185.4	85.5	-1.3	610	0.00
	Telangana	13109	0	221.2	95.8	-2.6	440	0.00
	Karnataka	11856	0	214.9	70.6	-2.6	595	0.00
	Kerala	3516	0	70.3	52.5	0.1	160	0.00
	Tamil Nadu	13851	0	283.7	133.2	-2.0	423	0.00
	Puducherry	351	0	7.8	8.0	-0.5	18	0.00
ER	Bihar	5668	0	101.3	91.0	-1.8	165	0.60
	DVC	3516	0	74.6	-42.8	0.3	271	0.00
	Jharkhand	1642	93	29.2	21.5	-1.4	146	3.70
	Odisha	4431	0	89.9	26.7	-4.7	240	0.00
	West Bengal	6370	0	118.7	-6.0	-2.6	262	0.00
	Sikkim	104	0	1.6	1.8	-0.2	5	0.00
NER	Arunachal Pradesh	160	0	2.5	2.6	-0.3	33	0.00
	Assam	1407	0	25.0	18.5	-0.3	90	0.00
	Manipur	228	0	3.3	3.5	-0.2	17	0.00
	Meghalaya	364	0	7.3	6.5	-0.1	22	0.00
	Mizoram	121	0	2.0	1.8	-0.2	11	0.00
	Nagaland	137	0	2.2	2.1	0.0	32	0.00
	Tripura	224	0	3.9	2.4	0.1	30	0.00

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

	Bhutan	Nepal	Bangladesh
Actual (MU)	-1.2	-10.7	-14.3
Day Peak (MW)	-167.0	-499.4	-618.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	186.6	-98.9	109.5	-194.6	-2.6	0.0
Actual(MU)	186.3	-89.1	105.6	-201.8	-3.7	-2.7
O/D/U/D(MU)	-0.3	9.7	-3.8	-7.1	-1.2	-2.7

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL	% Share
Central Sector	5283	13141	8438	1810	774	29445	49
State Sector	7155	15339	5423	2618	119	30653	51
Total	12438	28479	13861	4428	893	60098	100

G. Sourcewise generation (MU)

	NR	WR	SR	ER	NER	All India	% Share
Coal	793	1385	575	638	16	3407	78
Lignite	32	15	46	0	0	93	2
Hydro	109	38	76	40	9	272	6
Nuclear	27	37	52	0	0	116	3
Gas, Naptha & Diesel	13	10	5	0	31	58	1
RES (Wind, Solar, Biomass & Others)	141	98	188	3	1	430	10
Total	1113	1583	943	681	56	4375	100

Share of RES in total generation (%)	12.65	6.19	19.96	0.37	1.51	9.83
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	24.81	10.94	33.44	6.21	18.02	18.67

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.024
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: 09-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	989	0.0	16.7	-16.7
4	765 kV	SASARAM-FATEHPUR	1	0	412	0.0	7.2	-7.2
5	765 kV	GAYA-BALIA	1	0	796	0.0	12.1	-12.1
6	400 kV	PUSAULI-VARANASI	1	0	170	0.0	3.2	-3.2
7	400 kV	PUSAULI - ALLAHABAD	1	0	205	0.0	3.8	-3.8
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	0	720	0.0	10.2	-10.2
9	400 kV	PATNA-BALIA	2	0	701	0.0	13.2	-13.2
10	400 kV	NAUBATPUR-BALIA	2	0	751	0.0	14.0	-14.0
11	400 kV	BIHARSHARIFF-BALIA	2	0	420	0.0	6.3	-6.3
12	400 kV	MOTIHARI-GORAKHPUR	2	0	524	0.0	8.8	-8.8
13	400 kV	BIHARSHARIFF-VARANASI	2	0	395	0.0	7.2	-7.2
14	220 kV	SAHUPURI-KARAMNASA	1	0	111	0.0	1.3	-1.3
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	4	25	0.0	0.0	0.0
18	132 kV	KARMANASA-CHANDAULI	1	0	0	0.0	0.0	0.0
					ER-NR	0.4	110.9	-110.5
Import/Export of ER (With WR)								
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	251	607	0.0	3.4	-3.4
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	251	1245	0.0	11.2	-11.2
3	765 kV	JHARSUGUDA-DURG	2	0	664	0.0	11.9	-11.9
4	400 kV	JHARSUGUDA-RAIGARH	4	0	669	0.0	10.7	-10.7
5	400 kV	RANCHI-SIPAT	2	0	353	0.0	4.8	-4.8
6	220 kV	BUDHIPADAR-RAIGARH	1	0	191	0.0	2.8	-2.8
7	220 kV	BUDHIPADAR-KORBA	2	75	118	0.0	0.9	-0.9
					ER-WR	0.0	45.7	-45.7
Import/Export of ER (With SR)								
1	HVDC	JEYPORE-GAZUWAKA B/B	2	0	324	0.0	7.3	-7.3
2	HVDC	TALCHER-KOLAR BIPOLE	2	0	1984	0.0	37.5	-37.5
3	765 kV	ANGUL-SRIKAKULAM	2	0	3021	0.0	55.7	-55.7
4	400 kV	TALCHER-I/C	2	153	673	0.0	4.7	-4.7
5	220 kV	BALIMELA-UPPER-SILERRU	1	0	0	0.0	0.0	0.0
					ER-SR	0.0	100.4	-100.4
Import/Export of ER (With NER)								
1	400 kV	BINAGURI-BONGAIGAON	2	233	0	3.1	0.0	3.1
2	400 kV	ALIPURDUAR-BONGAIGAON	2	730	0	10.4	0.0	10.4
3	220 kV	ALIPURDUAR-SALAKATI	2	69	0	1.0	0.0	1.0
					ER-NER	14.4	0.0	14.4
Import/Export of NER (With NR)								
1	HVDC	BISWANATH CHARIALI-AGRA	2	473	0	11.7	0.0	11.7
					NER-NR	11.7	0.0	11.7
Import/Export of WR (With NR)								
1	HVDC	CHAMPA-KURUKSHETRA	2	0	997	0.0	46.5	-46.5
2	HVDC	VINDHYACHAL B/B	-	0	101	0.0	2.4	-2.4
3	HVDC	MUNDRA-MOHINDERGARH	2	251	0	5.9	0.0	5.9
4	765 kV	GWALIOR-AGRA	2	274	1806	0.1	19.6	-19.5
5	765 kV	GWALIOR-PHAGI	2	0	2130	0.0	37.3	-37.3
6	765 kV	JABALPUR-ORAI	2	0	1141	0.0	28.8	-28.8
7	765 kV	GWALIOR-ORAI	1	989	0	17.7	0.0	17.7
8	765 kV	SATNA-ORAI	1	0	1047	0.0	18.8	-18.8
9	765 kV	BANASKANTHA-CHITORGARH	2	2455	0	33.6	0.0	33.6
10	765 kV	VINDHYACHAL-VARANASI	2	0	2177	0.0	29.1	-29.1
11	400 kV	ZERDA-KANKROLI	1	354	0	4.5	0.0	4.5
12	400 kV	ZERDA -BHINMAL	1	518	135	4.1	0.0	4.1
13	400 kV	VINDHYACHAL -RIHAND	1	951	0	22.0	0.0	22.0
14	400 kV	RAPP-SHUJALPUR	2	271	578	1.0	3.1	-2.1
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	115	0	1.1	0.0	1.1
18	220 kV	MALANPUR-AURAIYA	1	88	0	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	91.6	187.2	-95.6
Import/Export of WR (With SR)								
1	HVDC	BHADRAWATI B/B	-	293	958	4.1	5.5	-1.4
2	HVDC	RAIGARH-PUGALUR	2	581	5004	0.0	12.4	-12.4
3	765 kV	SOLAPUR-RAICHUR	2	840	1082	1.5	8.2	-6.7
4	765 kV	WARDHA-NIZAMABAD	2	0	2690	0.0	40.7	-40.7
5	400 kV	KOLHAPUR-KUDGI	2	1373	0	22.0	0.0	22.0
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	82	0.0	0.0	0.0
					WR-SR	27.6	66.7	-39.2

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	-1.34
	ER	400kV TALA-BINAGURI 1,2,4 (& 400kV MALBASE - BINAGURI) i.e. BINAGURI RECEIPT (from TALA HEP (6*170MW)	172	0	95	2.27
	ER	220kV CHUKHA-BIRPARA 1&2 (& 220kV MALBASE - BIRPARA) i.e. BIRPARA RECEIPT (from CHUKHA HEP 4*84MW)	0	0	0	-1.48
	NER	132kV GELEPHU-SALAKATI	24	13	-19	-0.45
	NER	132kV MOTANGA-RANGIA	16	2	-6	-0.14
NEPAL	NR	132kV MAHENDRANAGAR-TANAKPUR(NHPC)	-76	0	-63	-1.51
	ER	NEPAL IMPORT (FROM BIHAR)	-98	-67	-80	-1.92
	ER	400kV DHALKEBAR-MUZAFFARPUR 1&2	-325	-185	-301	-7.23
BANGLADESH	ER	BHERAMARA B/B HVDC (BANGLADESH)	-505	-500	-501	-12.04
	NER	132kV COMILLA-SURAJMANI NAGAR 1&2	-113	0	-96	-2.30