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: 10th 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 09.01.2023.

महोदय/Dear Sir,

आई०ई०जी०सी०-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 09- 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 9th 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:** **10-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)	55373	59765	42848	19722	2694	180402
Peak Shortage (MW)	2440	0	120	1526	0	4086
Energy Met (MU)	1211	1420	1029	413	48	4120
Hydro Gen (MU)	109	52	97	34	10	302
Wind Gen (MU)	7	33	48	-	-	88
Solar Gen (MU)*	81.94	54.07	119.51	5.91	0.86	262
Energy Shortage (MU)	34.41	0.00	0.50	12.69	0.00	47.60
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	60523	69037	55121	20896	2753	205154
Time Of Maximum Demand Met (From NLDC SCADA)	12:22	10:22	09:59	17:48	17:36	10:39

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	0.278	10.43	6.93	12.56	29.92	48.00	22.08

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	8340	0	154.5	42.3	-1.3	246	0.00
	Haryana	8014	268	147.4	69.6	1.4	249	4.40
	Rajasthan	15638	312	299.9	111.8	0.3	374	20.83
	Delhi	5466	0	88.7	79.5	-0.8	342	0.08
	UP	19895	525	374.3	120.0	-0.6	394	5.46
	Uttarakhand	2282	75	42.6	31.1	-0.4	302	2.65
	HP	1985	0	35.1	28.3	0.1	167	0.00
	J&K(UT) & Ladakh(UT)	2897	0	63.0	60.5	-1.6	236	0.99
	Chandigarh	318	0	5.3	5.0	0.3	61	0.00
WR	Chhattisgarh	4810	0	103.6	49.5	-0.5	260	0.00
	Gujarat	18724	0	391.0	212.0	0.5	724	0.00
	MP	16911	0	322.1	184.2	0.0	551	0.00
	Maharashtra	26129	0	532.0	173.2	-0.2	479	0.00
	Goa	634	0	13.0	11.9	0.7	84	0.00
	DNHDDPDCL	1236	0	27.8	28.0	-0.1	38	0.00
	AMNSIL	797	0	17.6	11.1	0.0	255	0.00
	BALCO	519	0	12.3	12.4	0.0	2	0.00
SR	Andhra Pradesh	10369	0	190.0	78.8	-1.1	474	0.00
	Telangana	13540	0	226.9	90.9	-0.7	619	0.00
	Karnataka	13102	0	230.1	67.8	-1.4	549	0.50
	Kerala	3966	0	77.5	53.3	0.7	277	0.00
	Tamil Nadu	15180	0	296.4	152.7	0.1	1045	0.00
	Puducherry	398	0	8.2	8.3	-0.4	41	0.00
ER	Bihar	5088	0	94.2	83.1	-1.2	522	8.62
	DVC	3665	0	73.5	-47.4	0.0	243	0.00
	Jharkhand	1642	221	27.9	21.1	-1.2	125	4.43
	Odisha	4618	0	86.1	29.5	-4.9	248	0.00
	West Bengal	6879	0	129.7	-2.2	-2.1	162	0.00
	Sikkim	124	0	1.7	1.9	-0.2	21	0.00
NER	Arunachal Pradesh	155	0	2.5	2.6	-0.3	47	0.00
	Assam	1525	0	26.2	19.1	0.3	90	0.00
	Manipur	231	0	3.3	3.4	0.0	41	0.00
	Meghalaya	387	0	7.2	6.5	-0.3	11	0.00
	Mizoram	137	0	2.1	1.9	-0.2	14	0.00
	Nagaland	143	0	2.1	2.0	-0.1	23	0.00
	Tripura	231	0	4.4	2.5	0.0	14	0.00

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

	Bhutan	Nepal	Bangladesh
Actual (MU)	-1.3	-9.3	-14.2
Day Peak (MW)	-188.5	-509.5	-623.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	189.4	-118.4	104.5	-174.0	-1.5	0.0
Actual(MU)	206.4	-121.2	98.0	-184.8	-2.1	-3.7
O/D/U/D(MU)	17.0	-2.8	-6.5	-10.8	-0.6	-3.7

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL	% Share
Central Sector	5343	13381	8948	3655	799	32125	52
State Sector	7435	13279	6725	2408	119	29965	48
Total	12778	26659	15673	6063	918	62090	100

G. Sourcewise generation (Gross) (MU)

	NR	WR	SR	ER	NER	All India	% Share
Coal	814	1431	602	628	15	3490	78
Lignite	32	15	50	0	0	96	2
Hydro	109	52	97	34	10	302	7
Nuclear	26	37	52	0	0	115	3
Gas, Naptha & Diesel	17	11	5	0	31	64	1
RES (Wind, Solar, Biomass & Others)	114	90	193	6	1	403	9
Total	1111	1636	998	669	56	4470	100

Share of RES in total generation (%)	10.22	5.48	19.30	0.92	1.53	9.01
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	22.37	10.92	34.21	6.00	18.76	18.33

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.015
Based on State Max Demands	1.053

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: 10-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	7.2	-7.2
3	765 kV	GAYA-VARANASI	2	0	947	0.0	16.8	-16.8
4	765 kV	SASARAM-FATEHPUR	1	0	425	0.0	7.7	-7.7
5	765 kV	GAYA-BALIA	1	0	780	0.0	14.3	-14.3
6	400 kV	PUSAULI-VARANASI	1	0	184	0.0	3.3	-3.3
7	400 kV	PUSAULI - ALLAHABAD	1	0	191	0.0	3.8	-3.8
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	0	681	0.0	11.2	-11.2
9	400 kV	PATNA-BALIA	2	0	651	0.0	11.8	-11.8
10	400 kV	NAUBATPUR-BALIA	2	0	709	0.0	12.4	-12.4
11	400 kV	BIHARSHARIFF-BALIA	2	0	430	0.0	7.6	-7.6
12	400 kV	MOTIHARI-GORAKHPUR	2	0	459	0.0	7.8	-7.8
13	400 kV	BIHARSHARIFF-VARANASI	2	0	376	0.0	6.5	-6.5
14	220 kV	SAHUPURI-KARAMNASA	1	0	116	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	51	0.0	0.0	0.0
18	132 kV	KARMANASA-CHANDAULI	1	0	0	0.0	0.0	0.0
					ER-NR	0.4	111.6	-111.3
Import/Export of ER (With WR)								
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	831	496	3.3	0.0	3.3
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	716	696	0.3	0.0	0.3
3	765 kV	JHARSUGUDA-DURG	2	0	473	0.0	7.5	-7.5
4	400 kV	JHARSUGUDA-RAIGARH	4	0	622	0.0	9.6	-9.6
5	400 kV	RANCHI-SIPAT	2	126	289	0.0	2.0	-2.0
6	220 kV	BUDHIPADAR-RAIGARH	1	0	168	0.0	2.6	-2.6
7	220 kV	BUDHIPADAR-KORBA	2	42	94	0.0	0.5	-0.5
					ER-WR	3.6	22.2	-18.6
Import/Export of ER (With SR)								
1	HVDC	JEYPORE-GAZUWAKA B/B	2	0	653	0.0	9.4	-9.4
2	HVDC	TALCHER-KOLAR BIPOLE	2	0	2470	0.0	46.4	-46.4
3	765 kV	ANGUL-SRIKAKULAM	2	0	3213	0.0	52.2	-52.2
4	400 kV	TALCHER-I/C	2	13	1173	0.0	13.8	-13.8
5	220 kV	BALIMELA-UPPER-SILERRU	1	0	0	0.0	0.0	0.0
					ER-SR	0.0	108.0	-108.0
Import/Export of ER (With NER)								
1	400 kV	BINAGURI-BONGAIGAON	2	170	0	2.7	0.0	2.7
2	400 kV	ALIPURDUAR-BONGAIGAON	2	558	0	9.2	0.0	9.2
3	220 kV	ALIPURDUAR-SALAKATI	2	52	0	0.8	0.0	0.8
					ER-NER	12.7	0.0	12.7
Import/Export of NER (With NR)								
1	HVDC	BISWANATH CHARIALI-AGRA	2	472	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	5	2020	0.0	37.0	-37.0
2	HVDC	VINDHYACHAL B/B	-	0	101	0.0	2.4	-2.4
3	HVDC	MUNDRA-MOHINDERGARH	2	493	0	0.0	6.6	-6.6
4	765 kV	GWALIOR-AGRA	2	315	1870	0.1	24.4	-24.3
5	765 kV	GWALIOR-PHAGI	2	0	2130	0.0	39.6	-39.6
6	765 kV	JABALPUR-ORAI	2	0	1117	0.0	34.4	-34.4
7	765 kV	GWALIOR-ORAI	1	975	0	17.4	0.0	17.4
8	765 kV	SATNA-ORAI	1	0	1010	0.0	19.3	-19.3
9	765 kV	BANASKANTHA-CHITORGARH	2	2053	0	28.2	0.0	28.2
10	765 kV	VINDHYACHAL-VARANASI	2	0	2568	0.0	34.6	-34.6
11	400 kV	ZERDA-KANKROLI	1	266	0	3.0	0.0	3.0
12	400 kV	ZERDA -BHINMAL	1	421	81	2.8	0.0	2.8
13	400 kV	VINDHYACHAL -RIHAND	1	965	0	21.7	0.0	21.7
14	400 kV	RAPP-SHUJALPUR	2	181	549	0.2	3.6	-3.5
15	220 kV	BHANPURA-RANPUR	1	0	0	0.0	0.0	0.0
16	220 kV	BHANPURA-MORAK	1	0	30	0.0	1.8	-1.8
17	220 kV	MEHGAON-AURAIYA	1	134	0	1.0	0.0	1.0
18	220 kV	MALANPUR-AURAIYA	1	103	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	12.1	0.0	12.1
					WR-NR	88.1	203.7	-115.6
Import/Export of WR (With SR)								
1	HVDC	BHADRAWATI B/B	-	293	1009	1.6	11.1	-9.5
2	HVDC	RAIGARH-PUGALUR	2	965	2498	4.0	0.0	4.0
3	765 kV	SOLAPUR-RAICHUR	2	1530	1763	5.4	9.7	-4.2
4	765 kV	WARDHA-NIZAMABAD	2	0	3282	0.0	37.8	-37.8
5	400 kV	KOLHAPUR-KUDGI	2	1470	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	76	1.3	0.0	1.3
					WR-SR	34.2	58.5	-24.3

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	-1.49
	ER	400kV TALA-BINAGURI I,2,4 (& 400kV MALBASE - BINAGURI) i.e. BINAGURI RECEIPT (from TALA HEP (6*170MW)	181	0	91	2.18
	ER	220kV CHUKHA-BIRPARA 1&2 (& 220kV MALBASE - BIRPARA) i.e. BIRPARA RECEIPT (from CHUKHA HEP 4*84MW)	0	0	0	-1.46
	NER	132kV GELEPHU-SALAKATI	-23	0	-18	-0.43
	NER	132kV MOTANGA-RANGIA	-16	0	-5	-0.12
NEPAL	NR	132kV MAHENDRANAGAR-TANAKPUR(NHPC)	-74	0	-60	-1.45
	ER	NEPAL IMPORT (FROM BIHAR)	-103	-73	-83	-1.99
	ER	400kV DHALKEBAR-MUZAFFARPUR 1&2	-333	-80	-245	-5.87
BANGLADESH	ER	BHERAMARA B/B HVDC (BANGLADESH)	-509	-489	-496	-11.91
	NER	132kV COMILLA-SURAJMANI NAGAR 1&2	-114	0	-96	-2.30