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: 3rd 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 02.01.2023.

महोदय/Dear Sir,

आई०ई०जी०सी०-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 02- 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 2nd 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: 03-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)	54048	57741	43130	19673	2623	177215
Peak Shortage (MW)	1830	9	150	441	0	2430
Energy Met (MU)	1142	1389	1032	403	45	4010
Hydro Gen (MU)	110	37	82	27	10	266
Wind Gen (MU)	5	32	51	-	-	89
Solar Gen (MU)*	108.75	51.56	114.02	4.37	0.75	279
Energy Shortage (MU)	21.82	0.20	0.30	2.43	0.00	24.75
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	58066	69182	54691	20273	2673	201159
Time Of Maximum Demand Met (From NLDC SCADA)	11:56	10:30	10:25	17:40	17:33	10:43

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	0.082	0.00	2.68	13.96	16.64	56.67	26.69

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	7809	0	141.2	32.6	-1.8	75	0.00
	Haryana	7510	0	139.2	66.6	-1.3	167	0.00
	Rajasthan	16107	219	299.4	107.4	-1.2	86	15.10
	Delhi	4580	0	78.2	70.1	-0.7	272	0.00
	UP	19407	158	340.9	82.2	-0.5	453	5.61
	Uttarakhand	2221	150	42.5	31.3	0.0	96	0.52
	HP	1929	0	34.2	27.2	-0.3	109	0.25
	J&K(UT) & Ladakh(UT)	2866	0	61.7	59.3	-2.2	68	0.34
	Chandigarh	281	0	4.8	4.6	0.2	52	0.00
WR	Chhattisgarh	4660	0	100.9	57.4	-0.1	561	0.00
	Gujarat	19210	0	376.7	219.6	3.5	712	0.00
	MP	16379	0	312.4	191.4	0.0	453	0.00
	Maharashtra	26488	0	532.5	183.0	0.4	554	0.00
	Goa	634	9	12.5	12.3	-0.4	33	0.20
	DNHDDPDCL	1165	0	25.2	25.8	-0.6	79	0.00
	AMNSIL	768	0	16.3	10.4	-0.4	293	0.00
	BALCO	515	0	12.3	12.4	-0.1	67	0.00
SR	Andhra Pradesh	10244	0	195.6	82.2	-1.7	391	0.00
	Telangana	13779	0	229.2	103.5	-2.0	489	0.00
	Karnataka	12943	0	225.3	85.8	-0.8	781	0.30
	Kerala	3859	0	75.2	56.2	0.1	190	0.00
	Tamil Nadu	14888	0	298.4	148.6	2.1	1090	0.00
	Puducherry	405	0	8.2	8.1	-0.3	41	0.00
ER	Bihar	5020	87	89.0	80.7	-2.2	173	0.24
	DVC	3297	0	70.3	-38.8	0.6	310	0.00
	Jharkhand	1493	195	27.2	20.5	-2.2	101	2.19
	Odisha	4741	0	93.7	29.7	-3.9	331	0.00
	West Bengal	6426	0	120.6	-11.0	-2.7	211	0.00
	Sikkim	127	0	2.0	1.9	0.1	20	0.00
NER	Arunachal Pradesh	153	0	2.5	2.4	-0.1	44	0.00
	Assam	1459	0	24.5	19.0	-1.0	104	0.00
	Manipur	239	0	3.1	3.4	-0.3	34	0.00
	Meghalaya	383	0	7.1	6.4	-0.4	37	0.00
	Mizoram	125	0	2.0	2.0	-0.4	23	0.00
	Nagaland	133	0	1.9	1.9	-0.2	26	0.00
	Tripura	226	0	3.6	1.6	-0.1	29	0.00

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

	Bhutan	Nepal	Bangladesh
Actual (MU)	-0.5	-8.8	-21.2
Day Peak (MW)	-225.0	-505.4	-1038.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	135.8	-91.2	130.9	-172.7	-2.7	0.0
Actual(MU)	125.3	-78.6	128.3	-175.3	-3.8	-4.1
O/D/U/D(MU)	-10.5	12.6	-2.6	-2.6	-1.0	-4.1

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL	% Share
Central Sector	5064	11281	7958	2610	609	27522	48
State Sector	4950	15423	6925	2048	98	29443	52
Total	10014	26704	14883	4658	707	56965	100

G. Sourcewise generation (MU)

	NR	WR	SR	ER	NER	All India	% Share
Coal	805	1369	578	621	16	3388	78
Lignite	28	15	36	0	0	78	2
Hydro	111	37	83	28	10	268	6
Nuclear	22	37	76	0	0	134	3
Gas, Naptha & Diesel	13	6	6	0	30	55	1
RES (Wind, Solar, Biomass & Others)	136	85	189	5	1	417	10
Total	1114	1549	967	654	56	4341	100

Share of RES in total generation (%)	12.24	5.52	19.59	0.77	1.34	9.61
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	24.14	10.30	35.96	4.99	18.95	18.88

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.019
Based on State Max Demands	1.056

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.

Executive Director-NLDC

INTER-REGIONAL EXCHANGES

Import=(+ve) /Export =(-ve) for NET (MU)
Date of Reporting: 03-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	-	2	346	0.0	6.9	-6.9
3	765 kV	GAYA-VARANASI	2	0	962	0.0	13.4	-13.4
4	765 kV	SASARAM-FATEHPUR	1	0	442	0.0	7.5	-7.5
5	765 kV	GAYA-BALIA	1	0	620	0.0	10.2	-10.2
6	400 kV	PUSAULI-VARANASI	1	14	302	0.0	4.7	-4.7
7	400 kV	PUSAULI -ALLAHABAD	1	0	192	0.0	2.1	-2.1
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	0	712	0.0	9.5	-9.5
9	400 kV	PATNA-BALIA	2	0	640	0.0	10.6	-10.6
10	400 kV	NAUBATPUR-BALIA	2	0	707	0.0	11.3	-11.3
11	400 kV	BIHARSHARIFF-BALIA	2	0	317	0.0	4.1	-4.1
12	400 kV	MOTIHARI-GORAKHPUR	2	0	679	0.0	10.1	-10.1
13	400 kV	BIHARSHARIFF-VARANASI	2	3	290	0.0	2.3	-2.3
14	220 kV	SAHUPURI-KARAMNASA	1	0	110	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	29	0.0	0.0	0.0
18	132 kV	KARMANASA-CHANDAULI	1	0	0	0.0	0.0	0.0
					ER-NR	0.4	94.1	-93.7
Import/Export of ER (With WR)								
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	859	353	4.0	0.0	4.0
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	278	1076	0.0	4.3	-4.3
3	765 kV	JHARSUGUDA-DURG	2	0	602	0.0	10.2	-10.2
4	400 kV	JHARSUGUDA-RAIGARH	4	0	689	0.0	10.4	-10.4
5	400 kV	RANCHI-SIPAT	2	17	394	0.0	2.8	-2.8
6	220 kV	BUDHIPADAR-RAIGARH	1	0	160	0.0	2.4	-2.4
7	220 kV	BUDHIPADAR-KORBA	2	56	121	0.0	0.6	-0.6
					ER-WR	4.0	30.7	-26.7
Import/Export of ER (With SR)								
1	HVDC	JEYPORE-GAZUWAKA B/B	2	0	710	0.0	11.5	-11.5
2	HVDC	TALCHER-KOLAR BIPOLE	2	0	1989	0.0	38.7	-38.7
3	765 kV	ANGUL-SRIKAKULAM	2	0	3498	0.0	58.7	-58.7
4	400 kV	TALCHER-I/C	2	167	743	0.0	6.3	-6.3
5	220 kV	BALIMELA-UPPER-SILERRU	1	0	0	0.0	0.0	0.0
					ER-SR	0.0	108.8	-108.8
Import/Export of ER (With NER)								
1	400 kV	BINAGURI-BONGAIGAON	2	234	0	3.1	0.0	3.1
2	400 kV	ALIPURDUAR-BONGAIGAON	2	716	0	10.4	0.0	10.4
3	220 kV	ALIPURDUAR-SALAKATI	2	62	0	0.7	0.0	0.7
					ER-NER	14.2	0.0	14.2
Import/Export of NER (With NR)								
1	HVDC	BISWANATH CHARIALI-AGRA	2	470	0	11.6	0.0	11.6
					NER-NR	11.6	0.0	11.6
Import/Export of WR (With NR)								
1	HVDC	CHAMPA-KURUKSHETRA	2	0	1517	0.0	24.6	-24.6
2	HVDC	VINDHYACHAL B/B	-	226	101	3.2	1.1	2.1
3	HVDC	MUNDRA-MOHINDERGARH	2	977	0	0.0	23.3	-23.3
4	765 kV	GWALIOR-AGRA	2	195	1577	0.1	18.4	-18.3
5	765 kV	GWALIOR-PHAGI	2	0	2254	0.0	37.8	-37.8
6	765 kV	JABALPUR-ORAI	2	0	1026	0.0	26.5	-26.5
7	765 kV	GWALIOR-ORAI	1	1093	0	18.4	0.0	18.4
8	765 kV	SATNA-ORAI	1	0	1036	0.0	18.4	-18.4
9	765 kV	BANASKANTHA-CHITORGARH	2	2263	0	32.8	0.0	32.8
10	765 kV	VINDHYACHAL-VARANASI	2	0	2318	0.0	30.5	-30.5
11	400 kV	ZERDA-KANKROLI	1	320	0	4.1	0.0	4.1
12	400 kV	ZERDA -BHINMAL	1	587	130	3.7	0.0	3.7
13	400 kV	VINDHYACHAL -RIHAND	1	956	0	21.8	0.0	21.8
14	400 kV	RAPP-SHUJALPUR	2	370	643	1.4	4.4	-3.0
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	125	0	1.0	0.0	1.0
18	220 kV	MALANPUR-AURAIYA	1	87	0	1.7	0.0	1.7
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	88.1	186.6	-98.4
Import/Export of WR (With SR)								
1	HVDC	BHADRAWATI B/B	-	980	1009	16.6	2.6	14.1
2	HVDC	RAIGARH-PUGALUR	2	0	2000	0.0	21.7	-21.7
3	765 kV	SOLAPUR-RAICHUR	2	442	2401	0.2	15.9	-15.7
4	765 kV	WARDHA-NIZAMABAD	2	0	3971	0.0	53.4	-53.4
5	400 kV	KOLHAPUR-KUDGI	2	1406	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	1	99	1.1	0.0	1.1
					WR-SR	40.0	93.6	-53.6

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	-1.23
	ER	400kV TALA-BINAGURI 1,2,4 (& 400kV MALBASE - BINAGURI) i.e. BINAGURI RECEIPT (from TALA HEP (6*170MW)	184	19	112	2.68
	ER	220kV CHUKHA-BIRPARA 1&2 (& 220kV MALBASE - BIRPARA) i.e. BIRPARA RECEIPT (from CHUKHA HEP 4*84MW)	0	0	0	-1.52
	NER	132kV GELEPHU-SALAKATI	-24	0	-16	-0.39
	NER	132kV MOTANGA-RANGIA	-19	0	-2	-0.05
NEPAL	NR	132kV MAHENDRANAGAR-TANAKPUR(NHPC)	-75	0	-60	-1.45
	ER	NEPAL IMPORT (FROM BIHAR)	-98	-21	-79	-1.90
	ER	400kV DHALKEBAR-MUZAFFARPUR 1&2	-332	-1	-226	-5.42
BANGLADESH	ER	BHERAMARA B/B HVDC (BANGLADESH)	-926	-606	-791	-18.98
	NER	132kV COMILLA-SURAJMANI NAGAR 1&2	-112	0	-93	-2.22