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: 5th 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 04.01.2023.

महोदय/Dear Sir,

आई०ई०जी०सी०-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 04- 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 4th 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:** **05-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)	57478	57671	43363	21091	2710	182313
Peak Shortage (MW)	2100	0	0	306	0	2406
Energy Met (MU)	1218	1381	1062	421	48	4130
Hydro Gen (MU)	111	43	85	27	10	276
Wind Gen (MU)	28	159	72	-	-	260
Solar Gen (MU)*	105.34	48.66	111.87	1.50	0.38	268
Energy Shortage (MU)	29.01	0.15	1.20	1.81	0.00	32.17
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	60692	66980	55860	21857	2809	203708
Time Of Maximum Demand Met (From NLDC SCADA)	12:54	10:44	09:40	18:02	17:36	10:42

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	0.091	0.42	2.20	8.03	10.65	51.60	37.75

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	8806	0	158.0	46.1	-0.8	95	0.00
	Haryana	8159	0	153.2	79.4	-1.3	104	0.00
	Rajasthan	15745	645	299.6	96.6	0.4	219	27.17
	Delhi	5040	0	85.6	75.1	1.1	288	0.00
	UP	20478	0	373.1	130.6	0.7	604	0.05
	Uttarakhand	2335	0	45.1	32.4	1.4	227	1.01
	HP	1951	50	35.9	28.9	0.2	143	0.62
	J&K(UT) & Ladakh(UT)	2833	0	62.5	60.1	-1.8	77	0.16
	Chandigarh	299	0	5.0	4.9	0.2	40	0.00
WR	Chhattisgarh	4678	0	99.3	50.9	-1.7	212	0.00
	Gujarat	18682	0	374.9	158.8	-4.9	544	0.00
	MP	16765	0	313.4	181.9	-5.4	304	0.00
	Maharashtra	24584	0	522.2	196.0	-0.1	766	0.15
	Goa	672	0	14.4	13.2	0.8	35	0.00
	DNHDDPDCL	1210	0	27.8	27.9	-0.1	74	0.00
	AMNSIL	734	0	16.8	8.9	-0.3	235	0.00
	BALCO	517	0	12.3	12.4	-0.1	9	0.00
SR	Andhra Pradesh	10629	0	197.9	82.3	-0.3	635	0.00
	Telangana	13888	0	234.5	106.3	0.2	632	0.00
	Karnataka	13231	0	231.6	84.1	-0.2	767	1.20
	Kerala	3876	0	75.7	55.0	0.2	199	0.00
	Tamil Nadu	15436	0	314.2	158.6	-2.3	517	0.00
	Puducherry	400	0	8.6	8.2	0.0	87	0.00
ER	Bihar	5508	0	97.6	87.3	-1.9	181	0.09
	DVC	3608	0	75.3	-44.6	0.5	319	0.00
	Jharkhand	1677	0	29.3	23.4	-2.4	110	1.71
	Odisha	4823	0	92.6	29.3	-3.3	268	0.00
	West Bengal	6806	0	124.3	-3.0	-1.8	362	0.00
	Sikkim	132	0	2.0	2.0	0.0	20	0.00
NER	Arunachal Pradesh	158	0	2.6	2.5	-0.1	46	0.00
	Assam	1536	0	25.9	19.6	0.0	67	0.00
	Manipur	242	0	3.6	3.6	0.0	22	0.00
	Meghalaya	410	0	7.5	6.4	-0.2	23	0.00
	Mizoram	143	0	2.1	1.9	-0.2	17	0.00
	Nagaland	136	0	2.1	2.0	-0.1	23	0.00
	Tripura	230	0	3.8	1.8	0.0	37	0.00

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

	Bhutan	Nepal	Bangladesh
Actual (MU)	-0.3	-8.5	-21.2
Day Peak (MW)	-111.3	-319.9	-1100.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	192.7	-164.1	132.0	-158.9	-1.8	0.0
Actual(MU)	188.9	-169.8	142.1	-167.9	-1.5	-8.2
O/D/U/D(MU)	-3.8	-5.7	10.1	-9.0	0.3	-8.2

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL	% Share
Central Sector	5420	12541	8358	2135	744	29197	47
State Sector	7200	16481	7003	1658	98	32439	53
Total	12620	29021	15361	3793	842	61636	100

G. Sourcewise generation (MU)

	NR	WR	SR	ER	NER	All India	% Share
Coal	781	1325	577	633	15	3330	75
Lignite	31	13	35	0	0	79	2
Hydro	112	44	86	27	10	278	6
Nuclear	22	37	76	0	0	135	3
Gas, Naptha & Diesel	15	10	6	0	30	61	1
RES (Wind, Solar, Biomass & Others)	161	210	208	2	0	582	13
Total	1121	1640	988	661	55	4466	100

Share of RES in total generation (%)	14.34	12.82	21.09	0.32	0.69	13.03
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	26.28	17.75	37.48	4.33	18.85	22.28

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.022
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.**

Executive Director-NLDC

INTER-REGIONAL EXCHANGES

Import=(+ve) /Export =(-ve) for NET (MU)

Date of Reporting: 05-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	761	0.0	12.2	-12.2
4	765 kV	SASARAM-FATEHPUR	1	0	353	0.0	6.3	-6.3
5	765 kV	GAYA-BALIA	1	0	627	0.0	10.1	-10.1
6	400 kV	PUSAULI-VARANASI	1	0	191	0.0	3.7	-3.7
7	400 kV	PUSAULI -ALLAHABAD	1	0	196	0.0	3.3	-3.3
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	0	739	0.0	11.2	-11.2
9	400 kV	PATNA-BALIA	2	0	558	0.0	10.3	-10.3
10	400 kV	NAUBATPUR-BALIA	2	0	592	0.0	10.8	-10.8
11	400 kV	BIHARSHARIFF-BALIA	2	0	322	0.0	4.6	-4.6
12	400 kV	MOTIHARI-GORAKHPUR	2	0	510	0.0	8.6	-8.6
13	400 kV	BIHARSHARIFF-VARANASI	2	0	332	0.0	5.7	-5.7
14	220 kV	SAHUPURI-KARAMNASA	1	18	122	0.0	1.4	-1.4
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	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	95.2	-94.7
Import/Export of ER (With WR)								
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	1049	345	6.5	0.0	6.5
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	434	712	0.0	0.5	-0.5
3	765 kV	JHARSUGUDA-DURG	2	0	831	0.0	10.3	-10.3
4	400 kV	JHARSUGUDA-RAIGARH	4	0	608	0.0	8.5	-8.5
5	400 kV	RANCHI-SIPAT	2	102	279	0.0	1.5	-1.5
6	220 kV	BUDHIPADAR-RAIGARH	1	0	154	0.0	2.1	-2.1
7	220 kV	BUDHIPADAR-KORBA	2	99	78	0.1	0.0	0.1
					ER-WR	6.7	22.8	-16.2
Import/Export of ER (With SR)								
1	HVDC	JEYPORE-GAZUWAKA B/B	2	0	658	0.0	15.1	-15.1
2	HVDC	TALCHER-KOLAR BIPOLE	2	0	1980	0.0	36.2	-36.2
3	765 kV	ANGUL-SRIKAKULAM	2	0	3450	0.0	56.6	-56.6
4	400 kV	TALCHER-I/C	2	159	710	0.0	4.3	-4.3
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	298	11	2.6	0.0	2.6
2	400 kV	ALIPURDUAR-BONGAIGAON	2	656	0	9.2	0.0	9.2
3	220 kV	ALIPURDUAR-SALAKATI	2	54	8	0.6	0.0	0.6
					ER-NER	12.4	0.0	12.4
Import/Export of NER (With NR)								
1	HVDC	BISWANATH CHARIALI-AGRA	2	472	0	11.3	0.0	11.3
					NER-NR	11.3	0.0	11.3
Import/Export of WR (With NR)								
1	HVDC	CHAMPA-KURUKSHETRA	2	0	1516	0.0	29.5	-29.5
2	HVDC	VINDHYACHAL B/B	-	0	101	0.0	2.4	-2.4
3	HVDC	MUNDRA-MOHINDERGARH	2	977	0	23.3	0.0	23.3
4	765 kV	GWALIOR-AGRA	2	0	1955	0.0	28.8	-28.8
5	765 kV	GWALIOR-PHAGI	2	0	1993	0.0	27.8	-27.8
6	765 kV	JABALPUR-ORAI	2	0	1117	0.0	29.0	-29.0
7	765 kV	GWALIOR-ORAI	1	849	0	14.3	0.0	14.3
8	765 kV	SATNA-ORAI	1	0	1101	0.0	18.6	-18.6
9	765 kV	BANASKANTHA-CHITORGARH	2	716	922	3.0	7.2	-4.2
10	765 kV	VINDHYACHAL-VARANASI	2	0	2485	0.0	34.8	-34.8
11	400 kV	ZERDA-KANKROLI	1	149	211	0.0	0.5	-0.5
12	400 kV	ZERDA -BHINMAL	1	337	396	0.6	0.0	0.6
13	400 kV	VINDHYACHAL -RIHAND	1	967	0	21.6	0.0	21.6
14	400 kV	RAPP-SHUJALPUR	2	359	701	1.8	4.0	-2.2
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	112	0	0.7	0.0	0.7
18	220 kV	MALANPUR-AURAIYA	1	85	6	1.3	0.0	1.3
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	66.5	184.2	-117.7
Import/Export of WR (With SR)								
1	HVDC	BHADRAWATI B/B	-	980	1009	16.0	1.5	14.5
2	HVDC	RAIGARH-PUGALUR	2	0	2499	0.0	23.9	-23.9
3	765 kV	SOLAPUR-RAICHUR	2	16	2676	0.0	23.0	-23.0
4	765 kV	WARDHA-NIZAMABAD	2	0	3850	0.0	56.2	-56.2
5	400 kV	KOLHAPUR-KUDGI	2	1311	0	18.8	0.0	18.8
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	90	1.7	0.0	1.7
					WR-SR	36.5	104.5	-68.0

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	-1.32
	ER	400kV TALA-BINAGURI I,2,4 (& 400kV MALBASE - BINAGURI) i.e. BINAGURI RECEIPT (from TALA HEP (6*170MW)	206	11	105	2.52
	ER	220kV CHUKHA-BIRPARA 1&2 (& 220kV MALBASE - BIRPARA) i.e. BIRPARA RECEIPT (from CHUKHA HEP 4*84MW)	0	0	0	-1.17
	NER	132kV GELEPHU-SALAKATI	-21	-2	-15	-0.35
	NER	132kV MOTANGA-RANGIA	22	-13	-1	-0.02
NEPAL	NR	132kV MAHENDRANAGAR-TANAKPUR(NHPC)	-76	0	-64	-1.53
	ER	NEPAL IMPORT (FROM BIHAR)	101	66	-86	-2.07
	ER	400kV DHALKEBAR-MUZAFFARPUR 1&2	-345	0	-203	-4.88
BANGLADESH	ER	BHERAMARA B/B HVDC (BANGLADESH)	-938	-607	-794	-19.05
	NER	132kV COMILLA-SURAJMANI NAGAR 1&2	-162	0	-91	-2.18