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: 6th 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 05.01.2023.

महोदय/Dear Sir,

आई०ई०जी०सी०-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 05- 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 5th 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:** **06-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)	56470	58807	43643	20970	2650	182540
Peak Shortage (MW)	3847	0	900	510	0	5257
Energy Met (MU)	1209	1420	1057	425	48	4158
Hydro Gen (MU)	114	39	98	31	9	293
Wind Gen (MU)	37	158	79	-	-	273
Solar Gen (MU)*	103.99	45.56	101.80	1.97	0.82	254
Energy Shortage (MU)	39.84	0.00	2.30	2.72	0.01	44.87
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	60545	70642	55448	21368	2764	205676
Time Of Maximum Demand Met (From NLDC SCADA)	11:54	10:41	10:31	17:47	17:16	10:41

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	0.081	0.44	2.48	10.38	13.30	62.96	23.75

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	8412	0	154.6	46.4	-0.6	127	0.00
	Haryana	7785	338	150.5	82.5	-0.9	238	3.02
	Rajasthan	14915	1033	295.1	92.0	0.1	197	31.22
	Delhi	5225	0	85.6	78.3	-0.5	261	0.00
	UP	20726	143	374.8	131.8	0.5	589	2.61
	Uttarakhand	2273	0	45.0	32.3	1.4	204	2.17
	HP	1942	39	36.2	28.9	0.4	183	0.17
	J&K(UT) & Ladakh(UT)	2951	0	62.1	59.7	-1.3	115	0.65
	Chandigarh	305	0	5.2	5.1	0.0	37	0.00
WR	Chhattisgarh	4604	0	100.2	49.8	0.1	251	0.00
	Gujarat	19149	0	382.3	178.4	0.1	658	0.00
	MP	16728	0	317.1	178.3	0.1	457	0.00
	Maharashtra	27209	0	548.7	194.3	3.0	643	0.00
	Goa	676	0	14.4	13.1	0.8	32	0.00
	DNHDDPDCL	1227	0	28.2	28.1	0.1	69	0.00
	AMNSIL	742	0	16.3	10.1	-0.3	301	0.00
	BALCO	518	0	12.3	12.3	0.0	0	0.00
SR	Andhra Pradesh	10593	0	197.1	82.0	0.6	1239	0.00
	Telangana	13906	0	232.4	114.1	0.9	748	0.00
	Karnataka	12914	0	229.7	73.6	-0.6	895	2.30
	Kerala	3826	0	75.7	54.2	0.0	175	0.00
	Tamil Nadu	15281	0	314.0	158.6	-1.1	530	0.00
	Puducherry	390	0	8.5	8.3	-0.2	67	0.00
ER	Bihar	5520	172	99.1	88.5	-1.8	158	0.26
	DVC	3579	0	74.7	-42.0	-0.4	343	0.00
	Jharkhand	1632	0	30.3	22.9	-1.4	144	2.46
	Odisha	4693	0	91.7	26.1	-2.9	227	0.00
	West Bengal	7021	0	126.8	-4.1	-2.5	292	0.00
	Sikkim	129	0	2.1	2.1	0.0	31	0.00
NER	Arunachal Pradesh	150	0	2.6	2.5	-0.1	45	0.00
	Assam	1503	0	26.3	20.7	-0.4	79	0.00
	Manipur	247	0	3.5	3.5	0.0	33	0.01
	Meghalaya	383	0	7.3	6.3	-0.2	23	0.00
	Mizoram	143	0	2.0	2.0	-0.3	15	0.00
	Nagaland	136	0	2.1	2.0	0.0	32	0.00
	Tripura	227	0	4.0	2.0	0.0	47	0.00

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

	Bhutan	Nepal	Bangladesh
Actual (MU)	0.4	-9.2	-21.1
Day Peak (MW)	-72.4	-336.5	-1100.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	198.5	-169.9	133.8	-162.1	-0.3	0.0
Actual(MU)	190.8	-167.5	144.3	-172.6	-0.3	-5.3
O/D/U/D(MU)	-7.7	2.4	10.5	-10.5	0.0	-5.3

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL	% Share
Central Sector	5420	11531	7898	2210	744	27802	45
State Sector	9470	15418	7043	2458	98	34486	55
Total	14890	26949	14941	4668	842	62288	100

G. Sourcewise generation (MU)

	NR	WR	SR	ER	NER	All India	% Share
Coal	764	1380	563	625	15	3347	75
Lignite	31	13	37	0	0	80	2
Hydro	114	41	98	31	9	293	7
Nuclear	22	37	69	0	0	128	3
Gas, Naptha & Diesel	13	5	5	0	30	54	1
RES (Wind, Solar, Biomass & Others)	167	205	206	2	1	581	13
Total	1111	1682	978	657	55	4482	100

Share of RES in total generation (%)	15.03	12.21	21.02	0.31	1.51	12.95
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	27.27	16.83	38.13	4.97	18.14	22.34

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.025
Based on State Max Demands	1.058

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: 06-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	7.0	-7.0
3	765 kV	GAYA-VARANASI	2	0	855	0.0	12.5	-12.5
4	765 kV	SASARAM-FATEHPUR	1	0	427	0.0	6.2	-6.2
5	765 kV	GAYA-BALIA	1	0	743	0.0	11.7	-11.7
6	400 kV	PUSAULI-VARANASI	1	51	173	0.0	3.1	-3.1
7	400 kV	PUSAULI - ALLAHABAD	1	0	209	0.0	3.7	-3.7
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	0	761	0.0	11.8	-11.8
9	400 kV	PATNA-BALIA	2	0	618	0.0	11.5	-11.5
10	400 kV	NAUBATPUR-BALIA	2	0	657	0.0	12.0	-12.0
11	400 kV	BIHARSHARIFF-BALIA	2	0	373	0.0	5.3	-5.3
12	400 kV	MOTIHARI-GORAKHPUR	2	0	532	0.0	8.6	-8.6
13	400 kV	BIHARSHARIFF-VARANASI	2	0	368	0.0	5.5	-5.5
14	220 kV	SAHUPURI-KARAMNASA	1	25	134	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	45	0.0	0.0	0.0
18	132 kV	KARMANASA-CHANDAULI	1	0	0	0.0	0.0	0.0
					ER-NR	0.4	100.1	-99.7
Import/Export of ER (With WR)								
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	1018	218	6.2	0.0	6.2
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	421	919	0.0	4.4	-4.4
3	765 kV	JHARSUGUDA-DURG	2	0	486	0.0	8.1	-8.1
4	400 kV	JHARSUGUDA-RAIGARH	4	0	657	0.0	8.3	-8.3
5	400 kV	RANCHI-SIPAT	2	82	303	0.0	1.9	-1.9
6	220 kV	BUDHIPADAR-RAIGARH	1	0	164	0.0	2.3	-2.3
7	220 kV	BUDHIPADAR-KORBA	2	121	105	0.0	0.0	0.0
					ER-WR	6.2	25.0	-18.8
Import/Export of ER (With SR)								
1	HVDC	JEYPORE-GAZUWAKA B/B	2	0	658	0.0	10.9	-10.9
2	HVDC	TALCHER-KOLAR BIPOLE	2	0	1985	0.0	38.7	-38.7
3	765 kV	ANGUL-SRIKAKULAM	2	0	3232	0.0	55.7	-55.7
4	400 kV	TALCHER-I/C	2	158	887	0.0	6.6	-6.6
5	220 kV	BALIMELA-UPPER-SILERRU	1	0	0	0.0	0.0	0.0
					ER-SR	0.0	105.3	-105.3
Import/Export of ER (With NER)								
1	400 kV	BINAGURI-BONGAIGAON	2	175	7	2.2	0.0	2.2
2	400 kV	ALIPURDUAR-BONGAIGAON	2	612	0	8.7	0.0	8.7
3	220 kV	ALIPURDUAR-SALAKATI	2	53	0	0.8	0.0	0.8
					ER-NER	11.7	0.0	11.7
Import/Export of NER (With NR)								
1	HVDC	BISWANATH CHARIALI-AGRA	2	472	469	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	1522	0.0	36.1	-36.1
2	HVDC	VINDHYACHAL B/B	-	136	101	2.9	0.5	2.4
3	HVDC	MUNDRA-MOHINDERGARH	2	977	0	22.8	0.0	22.8
4	765 kV	GWALIOR-AGRA	2	0	2194	0.0	27.7	-27.7
5	765 kV	GWALIOR-PHAGI	2	0	1849	0.0	28.1	-28.1
6	765 kV	JABALPUR-ORAI	2	0	1197	0.0	28.4	-28.4
7	765 kV	GWALIOR-ORAI	1	840	0	15.7	0.0	15.7
8	765 kV	SATNA-ORAI	1	0	1224	0.0	21.1	-21.1
9	765 kV	BANASKANTHA-CHITORGARH	2	1253	1086	9.5	7.1	2.4
10	765 kV	VINDHYACHAL-VARANASI	2	0	2863	0.0	38.8	-38.8
11	400 kV	ZERDA-KANKROLI	1	227	172	0.9	0.0	0.9
12	400 kV	ZERDA -BHINMAL	1	548	293	1.6	0.0	1.6
13	400 kV	VINDHYACHAL -RIHAND	1	967	0	22.0	0.0	22.0
14	400 kV	RAPP-SHUJALPUR	2	390	678	1.8	3.5	-1.8
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	110	0	0.8	0.0	0.8
18	220 kV	MALANPUR-AURAIYA	1	72	12	1.4	0.0	1.4
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	79.2	192.8	-113.6
Import/Export of WR (With SR)								
1	HVDC	BHADRAWATI B/B	-	980	809	5.4	6.5	-1.2
2	HVDC	RAIGARH-PUGALUR	2	0	4000	0.0	25.4	-25.4
3	765 kV	SOLAPUR-RAICHUR	2	531	2290	0.6	16.8	-16.2
4	765 kV	WARDHA-NIZAMABAD	2	0	3853	0.0	53.2	-53.2
5	400 kV	KOLHAPUR-KUDGI	2	1368	0	21.6	0.0	21.6
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	73	1.6	0.0	1.6
					WR-SR	29.2	101.9	-72.7

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	-1.49
	ER	400kV TALA-BINAGURI 1,2,4 (& 400kV MALBASE - BINAGURI) i.e. BINAGURI RECEIPT (from TALA HEP (6*170MW)	241	20	113	2.72
	ER	220kV CHUKHA-BIRPARA 1&2 (& 220kV MALBASE - BIRPARA) i.e. BIRPARA RECEIPT (from CHUKHA HEP 4*84MW)	0	0	0	-1.23
	NER	132kV GELEPHU-SALAKATI	22	-17	17	0.40
	NER	132kV MOTANGA-RANGIA	13	-17	0	0.01
NEPAL	NR	132kV MAHENDRANAGAR-TANAKPUR(NHPC)	-76	0	-62	-1.49
	ER	NEPAL IMPORT (FROM BIHAR)	104	59	-80	-1.93
	ER	400kV DHALKEBAR-MUZAFFARPUR 1&2	-364	0	-243	-5.83
BANGLADESH	ER	BHERAMARA B/B HVDC (BANGLADESH)	-932	-601	-786	-18.86
	NER	132kV COMILLA-SURAJMANI NAGAR 1&2	-168	0	-95	-2.29