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: 2nd 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 01.01.2023.

महोदय/Dear Sir,

आई०ई०जी०सी०-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 01- 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 1st 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: 02-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)	50315	52960	37965	18653	2426	162319
Peak Shortage (MW)	0	0	0	0	0	0
Energy Met (MU)	1119	1340	973	394	45	3872
Hydro Gen (MU)	107	26	73	25	10	242
Wind Gen (MU)	2	53	23	-	-	79
Solar Gen (MU)*	103.44	52.41	118.20	4.78	0.67	280
Energy Shortage (MU)	3.92	0.00	0.00	1.36	0.00	5.28
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	57123	66346	51806	19555	2473	195090
Time Of Maximum Demand Met (From NLDC SCADA)	10:59	10:30	09:25	08:47	17:40	10:13

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	0.077	0.21	1.32	7.65	9.18	56.75	34.07

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	7484	0	140.0	30.5	-1.3	94	0.00
	Haryana	6479	0	125.2	60.4	-1.7	159	0.00
	Rajasthan	16280	0	304.9	114.6	-0.8	205	0.49
	Delhi	4588	0	73.7	63.2	0.2	294	0.00
	UP	17968	0	332.7	83.0	0.1	528	2.92
	Uttarakhand	2135	150	41.3	30.0	0.0	162	0.45
	HP	1901	0	34.0	27.1	-0.6	99	0.00
	J&K(UT) & Ladakh(UT)	2833	0	63.0	60.0	-1.7	58	0.06
	Chandigarh	241	0	4.1	4.1	0.0	47	0.00
WR	Chhattisgarh	4631	0	99.8	46.8	-0.9	101	0.00
	Gujarat	18088	0	356.9	191.8	-3.3	856	0.00
	MP	16360	0	310.2	188.1	0.0	328	0.00
	Maharashtra	25161	0	506.8	180.6	-0.9	550	0.00
	Goa	591	0	12.1	11.6	-0.1	43	0.00
	DNHDDPDCL	1086	0	24.7	23.9	0.8	32	0.00
	AMNSIL	807	0	17.1	10.8	0.0	257	0.00
	BALCO	518	0	12.3	12.3	0.0	0	0.00
SR	Andhra Pradesh	10432	0	190.8	82.8	-1.5	510	0.00
	Telangana	13629	0	222.3	102.7	-1.5	578	0.00
	Karnataka	12522	0	214.6	91.7	-1.0	1011	0.00
	Kerala	3444	0	69.0	53.1	0.2	189	0.00
	Tamil Nadu	13131	0	269.0	137.5	-3.6	237	0.00
	Puducherry	337	0	7.8	7.3	-0.2	21	0.00
ER	Bihar	4980	0	91.3	81.9	-2.1	69	0.00
	DVC	3446	0	71.3	-41.8	0.5	264	0.00
	Jharkhand	1562	189	28.5	21.8	-1.7	132	1.36
	Odisha	4629	0	89.5	28.7	-4.3	274	0.00
	West Bengal	5797	0	111.9	-15.5	-2.2	382	0.00
	Sikkim	96	0	1.6	1.8	-0.2	18	0.00
NER	Arunachal Pradesh	146	0	2.6	2.5	-0.1	25	0.00
	Assam	1343	0	24.5	18.2	-0.2	76	0.00
	Manipur	215	0	3.4	3.6	-0.2	25	0.00
	Meghalaya	341	0	7.2	6.4	-0.2	21	0.00
	Mizoram	130	0	2.1	1.9	-0.1	7	0.00
	Nagaland	133	0	2.0	2.0	-0.1	24	0.00
	Tripura	213	0	3.7	1.6	0.0	22	0.00

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

	Bhutan	Nepal	Bangladesh
Actual (MU)	0.4	-7.8	-21.3
Day Peak (MW)	-54.0	-457.5	-1047.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	138.3	-88.0	131.4	-178.7	-3.1	0.0
Actual(MU)	136.8	-84.2	136.0	-192.3	-2.6	-6.4
O/D/U/D(MU)	-1.6	3.8	4.6	-13.7	0.5	-6.4

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL	% Share
Central Sector	5553	12541	7458	2110	459	28121	50
State Sector	5165	15033	6403	1448	98	28146	50
Total	10718	27574	13861	3558	557	56267	100

G. Sourcewise generation (MU)

	NR	WR	SR	ER	NER	All India	% Share
Coal	777	1328	546	631	13	3296	78
Lignite	24	13	35	0	0	72	2
Hydro	108	27	73	26	10	244	6
Nuclear	22	37	75	0	0	134	3
Gas, Naptha & Diesel	13	4	6	0	30	53	1
RES (Wind, Solar, Biomass & Others)	131	108	165	5	1	409	10
Total	1075	1515	900	662	54	4207	100

Share of RES in total generation (%)	12.14	7.11	18.29	0.82	1.28	9.72
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	24.22	11.30	34.78	4.69	19.77	18.69

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.011
Based on State Max Demands	1.044

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: 02-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	346	0.0	8.7	-8.7
3	765 kV	GAYA-VARANASI	2	0	838	0.0	14.5	-14.5
4	765 kV	SASARAM-FATEHPUR	1	0	416	0.0	6.6	-6.6
5	765 kV	GAYA-BALIA	1	0	628	0.0	10.1	-10.1
6	400 kV	PUSAULI-VARANASI	1	0	209	0.0	4.4	-4.4
7	400 kV	PUSAULI -ALLAHABAD	1	0	214	0.0	4.1	-4.1
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	0	836	0.0	12.4	-12.4
9	400 kV	PATNA-BALIA	2	0	593	0.0	10.6	-10.6
10	400 kV	NAUBATPUR-BALIA	2	0	639	0.0	11.2	-11.2
11	400 kV	BIHARSHARIFF-BALIA	2	0	365	0.0	5.6	-5.6
12	400 kV	MOTIHARI-GORAKHPUR	2	0	564	0.0	9.8	-9.8
13	400 kV	BIHARSHARIFF-VARANASI	2	0	364	0.0	5.4	-5.4
14	220 kV	SAHUPURI-KARAMNASA	1	17	106	0.0	0.9	-0.9
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	104.3	-103.8
Import/Export of ER (With WR)								
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	669	475	1.7	0.0	1.7
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	212	826	0.0	6.8	-6.8
3	765 kV	JHARSUGUDA-DURG	2	0	496	0.0	9.2	-9.2
4	400 kV	JHARSUGUDA-RAIGARH	4	0	616	0.0	9.1	-9.1
5	400 kV	RANCHI-SIPAT	2	35	313	0.0	2.9	-2.9
6	220 kV	BUDHIPADAR-RAIGARH	1	0	149	0.0	2.2	-2.2
7	220 kV	BUDHIPADAR-KORBA	2	69	93	0.0	0.1	-0.1
					ER-WR	1.7	30.2	-28.6
Import/Export of ER (With SR)								
1	HVDC	JEYPORE-GAZUWAKA B/B	2	0	710	0.0	13.8	-13.8
2	HVDC	TALCHER-KOLAR BIPOLE	2	0	1997	0.0	43.0	-43.0
3	765 kV	ANGUL-SRIKAKULAM	2	0	3381	0.0	58.9	-58.9
4	400 kV	TALCHER-I/C	2	0	743	0.0	10.6	-10.6
5	220 kV	BALIMELA-UPPER-SILERRU	1	0	0	0.0	0.0	0.0
					ER-SR	0.0	115.7	-115.7
Import/Export of ER (With NER)								
1	400 kV	BINAGURI-BONGAIGAON	2	220	1	3.0	0.0	3.0
2	400 kV	ALIPURDUAR-BONGAIGAON	2	699	0	10.7	0.0	10.7
3	220 kV	ALIPURDUAR-SALAKATI	2	56	7	0.7	0.0	0.7
					ER-NER	14.4	0.0	14.4
Import/Export of NER (With NR)								
1	HVDC	BISWANATH CHARIALI-AGRA	2	471	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	1517	0.0	35.4	-35.4
2	HVDC	VINDHYACHAL B/B	-	226	0	6.1	0.0	6.1
3	HVDC	MUNDRA-MOHINDERGARH	2	977	0	0.0	23.3	-23.3
4	765 kV	GWALIOR-AGRA	2	292	1589	0.3	17.5	-17.2
5	765 kV	GWALIOR-PHAGI	2	0	2074	0.0	33.9	-33.9
6	765 kV	JABALPUR-ORAI	2	0	958	0.0	21.4	-21.4
7	765 kV	GWALIOR-ORAI	1	1004	0	18.6	0.0	18.6
8	765 kV	SATNA-ORAI	1	0	995	0.0	18.3	-18.3
9	765 kV	BANASKANTHA-CHITORGARH	2	2209	0	25.6	0.0	25.6
10	765 kV	VINDHYACHAL-VARANASI	2	0	1953	0.0	26.2	-26.2
11	400 kV	ZERDA-KANKROLI	1	291	37	2.4	0.0	2.4
12	400 kV	ZERDA -BHINMAL	1	391	228	0.8	0.0	0.8
13	400 kV	VINDHYACHAL -RIHAND	1	959	0	21.8	0.0	21.8
14	400 kV	RAPP-SHUJALPUR	2	273	606	1.1	4.0	-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	1.7	-1.7
17	220 kV	MEHGAON-AURAIYA	1	135	0	1.0	0.0	1.0
18	220 kV	MALANPUR-AURAIYA	1	99	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	79.3	181.7	-102.4
Import/Export of WR (With SR)								
1	HVDC	BHADRAWATI B/B	-	980	1009	11.9	4.2	7.7
2	HVDC	RAIGARH-PUGALUR	2	709	1999	0.0	10.4	-10.4
3	765 kV	SOLAPUR-RAICHUR	2	0	2361	0.0	20.8	-20.8
4	765 kV	WARDHA-NIZAMABAD	2	0	3581	0.0	53.9	-53.9
5	400 kV	KOLHAPUR-KUDGI	2	1246	0	17.8	0.0	17.8
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	122	2.3	0.0	2.3
					WR-SR	32.1	89.3	-57.2

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	-1.27
	ER	400kV TALA-BINAGURI 1,2,4 (& 400kV MALBASE - BINAGURI) i.e. BINAGURI RECEIPT (from TALA HEP (6*170MW)	192	28	113	2.72
	ER	220kV CHUKHA-BIRPARA 1&2 (& 220kV MALBASE - BIRPARA) i.e. BIRPARA RECEIPT (from CHUKHA HEP 4*84MW)	0	0	0	-1.37
	NER	132kV GELEPHU-SALAKATI	22	0	15	0.35
	NER	132kV MOTANGA-RANGIA	-7	0	-1	-0.01
NEPAL	NR	132kV MAHENDRANAGAR-TANAKPUR(NHPC)	-71	0	-62	-1.49
	ER	NEPAL IMPORT (FROM BIHAR)	-92	-21	-62	-1.48
	ER	400kV DHALKEBAR-MUZAFFARPUR 1&2	-295	-48	-200	-4.81
BANGLADESH	ER	BHERAMARA B/B HVDC (BANGLADESH)	-937	-609	-796	-19.10
	NER	132kV COMILLA-SURAJMANI NAGAR 1&2	-110	0	-90	-2.16