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: 4th 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 03.01.2023.

महोदय/Dear Sir,

आई०ई०जी०सी०-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 03- 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 3rd 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: 04-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)	56721	57372	43710	19898	2678	180379
Peak Shortage (MW)	1281	0	0	174	0	1455
Energy Met (MU)	1187	1415	1053	418	47	4121
Hydro Gen (MU)	115	40	92	26	10	283
Wind Gen (MU)	17	101	53	-	-	170
Solar Gen (MU)*	102.03	50.12	107.98	1.65	0.42	262
Energy Shortage (MU)	28.45	0.00	0.00	2.56	0.00	31.01
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	59179	73004	55266	21392	2749	205253
Time Of Maximum Demand Met (From NLDC SCADA)	12:17	15:51	10:18	19:06	17:33	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	0.104	1.74	4.79	9.92	16.44	61.57	21.99

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	7917	0	150.5	36.4	-1.1	78	0.00
	Haryana	7831	0	147.6	72.7	0.0	152	0.23
	Rajasthan	15855	694	305.2	108.0	-0.4	114	18.86
	Delhi	4826	0	81.4	72.1	0.5	338	0.00
	UP	19556	0	354.9	106.9	2.0	479	8.09
	Uttarakhand	2263	0	44.1	32.4	0.6	181	0.79
	HP	1848	0	34.7	27.6	-0.1	167	0.17
	J&K(UT) & Ladakh(UT)	3145	0	63.7	60.4	-1.0	189	0.31
	Chandigarh	283	0	4.8	4.9	-0.1	21	0.00
WR	Chhattisgarh	4837	0	103.2	53.7	0.1	346	0.00
	Gujarat	19317	0	380.4	199.2	-6.8	668	0.00
	MP	16639	0	319.3	186.5	0.0	390	0.00
	Maharashtra	26831	0	541.4	193.5	0.6	882	0.00
	Goa	666	0	14.7	13.2	0.9	88	0.00
	DNHDDPDCL	1200	0	27.3	27.6	-0.3	32	0.00
	AMNSIL	756	0	16.8	10.7	-0.4	267	0.00
	BALCO	514	0	12.3	12.4	-0.1	0	0.00
SR	Andhra Pradesh	10475	0	198.4	90.0	-0.4	549	0.00
	Telangana	13770	0	233.1	106.1	-0.7	700	0.00
	Karnataka	13107	0	229.2	84.2	0.4	822	0.00
	Kerala	3882	0	75.8	54.2	0.0	210	0.00
	Tamil Nadu	15328	0	308.5	161.4	0.1	1062	0.00
	Puducherry	391	0	8.5	8.2	-0.2	43	0.00
ER	Bihar	5251	0	95.5	84.0	-0.6	199	0.40
	DVC	3530	0	72.9	-44.9	0.5	291	0.00
	Jharkhand	1557	0	30.0	22.0	-1.2	94	2.16
	Odisha	5031	0	98.0	33.3	-4.0	245	0.00
	West Bengal	6624	0	119.8	-7.7	-3.4	240	0.00
	Sikkim	125	0	2.0	2.0	0.1	26	0.00
NER	Arunachal Pradesh	153	0	2.6	2.4	0.0	40	0.00
	Assam	1495	0	25.8	19.4	0.0	105	0.00
	Manipur	246	0	3.6	3.5	0.1	28	0.00
	Meghalaya	393	0	7.4	6.3	-0.2	30	0.00
	Mizoram	141	0	2.1	2.0	-0.2	9	0.00
	Nagaland	140	0	2.0	2.0	-0.1	26	0.00
	Tripura	230	0	3.8	1.7	0.0	34	0.00

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

	Bhutan	Nepal	Bangladesh
Actual (MU)	-0.5	-7.5	-21.3
Day Peak (MW)	-98.9	-445.3	-1054.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	153.8	-126.9	134.4	-158.7	-2.7	0.0
Actual(MU)	151.2	-129.5	142.0	-167.5	-2.6	-6.4
O/D/U/D(MU)	-2.6	-2.7	7.5	-8.8	0.1	-6.4

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL	% Share
Central Sector	5420	12541	7308	2635	744	28647	47
State Sector	7830	16006	6465	2048	119	32467	53
Total	13250	28546	13773	4683	863	61114	100

G. Sourcewise generation (MU)

	NR	WR	SR	ER	NER	All India	% Share
Coal	805	1392	584	631	15	3426	77
Lignite	28	14	36	0	0	78	2
Hydro	116	43	92	26	10	287	6
Nuclear	22	37	76	0	0	135	3
Gas, Naptha & Diesel	13	9	5	0	30	57	1
RES (Wind, Solar, Biomass & Others)	143	153	185	2	0	483	11
Total	1127	1648	978	658	56	4467	100

Share of RES in total generation (%)	12.68	9.29	18.88	0.25	0.75	10.81
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	24.92	14.16	36.08	4.19	18.70	20.26

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.031
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.

Executive Director-NLDC

INTER-REGIONAL EXCHANGES

Import=(+ve) /Export =(-ve) for NET (MU)
Date of Reporting: 04-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	6.9	-6.9
3	765 kV	GAYA-VARANASI	2	0	833	0.0	13.7	-13.7
4	765 kV	SASARAM-FATEHPUR	1	0	398	0.0	7.5	-7.5
5	765 kV	GAYA-BALIA	1	0	622	0.0	9.5	-9.5
6	400 kV	PUSAULI-VARANASI	1	0	207	0.0	3.8	-3.8
7	400 kV	PUSAULI -ALLAHABAD	1	0	194	0.0	2.1	-2.1
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	0	739	0.0	9.3	-9.3
9	400 kV	PATNA-BALIA	2	0	555	0.0	10.5	-10.5
10	400 kV	NAUBATPUR-BALIA	2	0	594	0.0	10.8	-10.8
11	400 kV	BIHARSHARIFF-BALIA	2	0	328	0.0	5.2	-5.2
12	400 kV	MOTIHARI-GORAKHPUR	2	0	497	0.0	8.3	-8.3
13	400 kV	BIHARSHARIFF-VARANASI	2	0	338	0.0	2.9	-2.9
14	220 kV	SAHUPURI-KARAMNASA	1	9	121	0.0	1.1	-1.1
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	31	0.0	0.0	0.0
18	132 kV	KARMANASA-CHANDAULI	1	0	0	0.0	0.0	0.0
					ER-NR	0.4	91.6	-91.1
Import/Export of ER (With WR)								
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	1084	250	5.8	0.0	5.8
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	461	859	0.0	3.7	-3.7
3	765 kV	JHARSUGUDA-DURG	2	0	544	0.0	8.9	-8.9
4	400 kV	JHARSUGUDA-RAIGARH	4	0	639	0.0	8.7	-8.7
5	400 kV	RANCHI-SIPAT	2	109	298	0.0	2.4	-2.4
6	220 kV	BUDHIPADAR-RAIGARH	1	0	153	0.0	2.3	-2.3
7	220 kV	BUDHIPADAR-KORBA	2	64	85	0.0	0.1	-0.1
					ER-WR	5.8	26.1	-20.3
Import/Export of ER (With SR)								
1	HVDC	JEYPORE-GAZUWAKA B/B	2	0	657	0.0	10.5	-10.5
2	HVDC	TALCHER-KOLAR BIPOLE	2	0	2472	0.0	38.2	-38.2
3	765 kV	ANGUL-SRIKAKULAM	2	0	3797	0.0	60.9	-60.9
4	400 kV	TALCHER-I/C	2	161	1156	0.0	5.5	-5.5
5	220 kV	BALIMELA-UPPER-SILERRU	1	0	0	0.0	0.0	0.0
					ER-SR	0.0	109.6	-109.6
Import/Export of ER (With NER)								
1	400 kV	BINAGURI-BONGAIGAON	2	220	0	3.1	0.0	3.1
2	400 kV	ALIPURDUAR-BONGAIGAON	2	674	0	10.4	0.0	10.4
3	220 kV	ALIPURDUAR-SALAKATI	2	60	5	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	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	1003	0.0	24.1	-24.1
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	265	1896	0.0	23.1	-23.1
5	765 kV	GWALIOR-PHAGI	2	0	1940	0.0	33.2	-33.2
6	765 kV	JABALPUR-ORAI	2	0	1083	0.0	28.3	-28.3
7	765 kV	GWALIOR-ORAI	1	1028	0	17.2	0.0	17.2
8	765 kV	SATNA-ORAI	1	0	1043	0.0	18.7	-18.7
9	765 kV	BANASKANTHA-CHITORGARH	2	1800	981	13.4	0.0	13.4
10	765 kV	VINDHYACHAL-VARANASI	2	0	2351	0.0	30.7	-30.7
11	400 kV	ZERDA-KANKROLI	1	284	170	1.8	0.0	1.8
12	400 kV	ZERDA -BHINMAL	1	436	288	1.3	0.0	1.3
13	400 kV	VINDHYACHAL -RIHAND	1	970	0	22.0	0.0	22.0
14	400 kV	RAPP-SHUJALPUR	2	372	603	0.0	2.6	-2.6
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	109	0	1.0	0.0	1.0
18	220 kV	MALANPUR-AURAIYA	1	80	4	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	81.6	164.8	-83.2
Import/Export of WR (With SR)								
1	HVDC	BHADRAWATI B/B	-	984	610	15.1	1.6	13.5
2	HVDC	RAIGARH-PUGALUR	2	0	3499	0.0	26.6	-26.6
3	765 kV	SOLAPUR-RAICHUR	2	224	2868	0.0	20.7	-20.7
4	765 kV	WARDHA-NIZAMABAD	2	0	4562	0.0	56.5	-56.5
5	400 kV	KOLHAPUR-KUDGI	2	1353	0	22.2	0.0	22.2
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	92	1.6	0.0	1.6
					WR-SR	38.8	105.4	-66.6

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	-1.48
	ER	400kV TALA-BINAGURI 1,2,4 (& 400kV MALBASE - BINAGURI) i.e. BINAGURI RECEIPT (from TALA HEP (6*170MW)	238	30	113	2.72
	ER	220kV CHUKHA-BIRPARA 1&2 (& 220kV MALBASE - BIRPARA) i.e. BIRPARA RECEIPT (from CHUKHA HEP 4*84MW)	0	0	0	-1.40
	NER	132kV GELEPHU-SALAKATI	-19	-6	-15	-0.35
	NER	132kV MOTANGA-RANGIA	12	-12	1	0.03
NEPAL	NR	132kV MAHENDRANAGAR-TANAKPUR(NHPC)	-43	0	-22	-0.54
	ER	NEPAL IMPORT (FROM BIHAR)	-98	-70	-84	-2.02
	ER	400kV DHALKEBAR-MUZAFFARPUR 1&2	-304	-56	-207	-4.96
BANGLADESH	ER	BHERAMARA B/B HVDC (BANGLADESH)	-939	-608	-795	-19.08
	NER	132kV COMILLA-SURAJMANI NAGAR 1&2	-115	0	-92	-2.20