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: 15th 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 14.01.2023.

महोदय/Dear Sir,

आई०ई०जी०सी०-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 14- 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 14th 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: 15-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)	52225	53233	40220	20233	2495	168406
Peak Shortage (MW)	200	0	0	159	0	359
Energy Met (MU)	1165	1329	1038	430	47	4009
Hydro Gen (MU)	109	39	83	36	9	277
Wind Gen (MU)	14	72	30	-	-	116
Solar Gen (MU)*	107.38	55.36	125.40	2.27	0.42	291
Energy Shortage (MU)	8.26	0.00	0.00	1.99	0.00	10.25
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	59681	64395	56496	21302	2642	202900
Time Of Maximum Demand Met (From NLDC SCADA)	11:55	10:11	10:13	18:43	17:37	10:12

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	0.119	1.71	1.38	5.12	8.21	55.19	36.60

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	7963	0	148.0	49.6	-0.3	159	1.40
	Haryana	7877	0	147.3	75.5	-1.0	146	0.00
	Rajasthan	15971	115	297.9	101.0	-4.6	221	6.09
	Delhi	4733	0	78.6	67.6	-2.4	158	0.00
	UP	19512	0	355.2	125.9	-1.0	674	0.00
	Uttarakhand	2330	0	43.6	31.4	0.0	273	0.70
	HP	1910	0	33.9	27.1	-0.1	106	0.00
	J&K(UT) & Ladakh(UT)	2990	0	56.0	56.0	-4.4	165	0.07
	Chandigarh	265	0	4.6	4.8	-0.2	21	0.00
WR	Chhattisgarh	4757	0	103.6	55.1	-1.7	165	0.00
	Gujarat	14113	0	292.1	147.7	-8.1	623	0.00
	MP	17104	0	323.9	195.6	0.0	664	0.00
	Maharashtra	27140	0	541.4	170.1	3.8	525	0.00
	Goa	620	0	13.5	12.1	1.0	41	0.00
	DNHDDPDCL	1158	0	26.2	26.5	-0.3	25	0.00
	AMNSIL	707	0	15.6	10.0	-0.4	244	0.00
	BALCO	518	0	12.4	12.4	0.0	11	0.00
SR	Andhra Pradesh	11037	0	192.5	86.5	-1.0	474	0.00
	Telangana	13363	0	227.9	105.7	-0.9	686	0.00
	Karnataka	14000	0	241.8	83.0	0.0	534	0.00
	Kerala	3692	0	72.7	57.7	0.1	112	0.00
	Tamil Nadu	15374	0	294.5	163.0	-1.4	690	0.00
	Puducherry	376	0	8.3	8.4	-0.6	21	0.00
ER	Bihar	5371	0	95.0	88.9	-4.9	238	0.04
	DVC	3530	0	74.0	-46.5	-0.3	255	0.00
	Jharkhand	1577	0	28.7	22.4	-2.4	82	1.95
	Odisha	5133	0	96.2	40.5	-2.1	583	0.00
	West Bengal	7204	0	134.6	1.8	-1.6	280	0.00
	Sikkim	120	0	1.9	2.0	-0.1	11	0.00
NER	Arunachal Pradesh	157	0	2.8	2.8	-0.2	32	0.00
	Assam	1433	0	25.7	20.5	-0.1	114	0.00
	Manipur	241	0	3.4	3.4	-0.1	29	0.00
	Meghalaya	407	0	7.5	6.3	-0.1	33	0.00
	Mizoram	145	0	2.2	1.9	-0.2	9	0.00
	Nagaland	135	0	2.1	2.1	-0.1	20	0.00
	Tripura	176	0	3.5	2.2	-0.4	12	0.00

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

	Bhutan	Nepal	Bangladesh
Actual (MU)	-1.9	-8.3	-20.1
Day Peak (MW)	-101.9	-408.7	-1052.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	175.3	-165.1	154.4	-164.5	-0.1	0.0
Actual(MU)	171.2	-148.8	162.5	-179.7	0.9	6.1
O/D/U/D(MU)	-4.1	16.3	8.1	-15.2	1.0	6.1

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL	% Share
Central Sector	5838	13181	8298	1710	484	29511	46
State Sector	7950	16083	7198	3748	140	35118	54
Total	13788	29264	15496	5458	624	64629	100

G. Sourcewise generation (Gross) (MU)

	NR	WR	SR	ER	NER	All India	% Share
Coal	755	1363	553	633	15	3319	76
Lignite	34	12	53	0	0	99	2
Hydro	109	39	83	36	9	277	6
Nuclear	27	37	66	0	0	129	3
Gas, Naptha & Diesel	18	7	5	0	29	58	1
RES (Wind, Solar, Biomass & Others)	148	130	179	2	0	460	11
Total	1090	1587	940	672	53	4342	100

Share of RES in total generation (%)	13.59	8.17	19.05	0.33	0.79	10.59
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	26.00	12.96	34.97	5.70	18.32	19.94

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.008
Based on State Max Demands	1.050

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.

**Note: All generation MU figures are gross

Executive Director-NLDC

INTER-REGIONAL EXCHANGES

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

Date of Reporting: 15-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	7.5	-7.5
3	765 kV	GAYA-VARANASI	2	0	818	0.0	13.2	-13.2
4	765 kV	SASARAM-FATEHPUR	1	0	328	0.0	4.8	-4.8
5	765 kV	GAYA-BALIA	1	0	731	0.0	11.0	-11.0
6	400 kV	PUSAULI-VARANASI	1	0	178	0.0	3.9	-3.9
7	400 kV	PUSAULI - ALLAHABAD	1	0	212	0.0	3.9	-3.9
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	0	606	0.0	8.5	-8.5
9	400 kV	PATNA-BALIA	2	0	611	0.0	11.8	-11.8
10	400 kV	NAUBATPUR-BALIA	2	0	663	0.0	12.5	-12.5
11	400 kV	BIHARSHARIFF-BALIA	2	0	293	0.0	4.4	-4.4
12	400 kV	MOTIHARI-GORAKHPUR	2	0	489	0.0	8.1	-8.1
13	400 kV	BIHARSHARIFF-VARANASI	2	0	351	0.0	4.2	-4.2
14	220 kV	SAHUPURI-KARAMNASA	1	22	92	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	0.5	0.0	0.5
17	132 kV	KARMANASA-SAHUPURI	1	4	25	0.0	0.0	0.0
18	132 kV	KARMANASA-CHANDAULI	1	0	0	0.0	0.0	0.0
					ER-NR	0.5	94.5	-94.1
Import/Export of ER (With WR)								
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	856	277	9.4	0.0	9.4
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	259	966	0.0	6.6	-6.6
3	765 kV	JHARSUGUDA-DURG	2	0	476	0.0	8.0	-8.0
4	400 kV	JHARSUGUDA-RAIGARH	4	0	564	0.0	8.6	-8.6
5	400 kV	RANCHI-SIPAT	2	0	360	0.0	3.5	-3.5
6	220 kV	BUDHIPADAR-RAIGARH	1	0	175	0.0	3.0	-3.0
7	220 kV	BUDHIPADAR-KORBA	2	72	95	0.0	0.1	-0.1
					ER-WR	9.4	29.7	-20.3
Import/Export of ER (With SR)								
1	HVDC	JEYPORE-GAZUWAKA B/B	2	0	645	0.0	14.8	-14.8
2	HVDC	TALCHER-KOLAR BIPOLE	2	0	1985	0.0	43.5	-43.5
3	765 kV	ANGUL-SRIKAKULAM	2	0	2753	0.0	52.8	-52.8
4	400 kV	TALCHER-I/C	2	0	754	0.0	11.4	-11.4
5	220 kV	BALIMELA-UPPER-SILERRU	1	0	0	0.0	0.0	0.0
					ER-SR	0.0	111.1	-111.1
Import/Export of ER (With NER)								
1	400 kV	BINAGURI-BONGAIGAON	2	117	59	0.9	0.2	0.8
2	400 kV	ALIPURDUAR-BONGAIGAON	2	447	50	4.5	0.0	4.5
3	220 kV	ALIPURDUAR-SALAKATI	2	45	10	0.5	0.0	0.5
					ER-NER	6.0	0.2	5.8
Import/Export of NER (With NR)								
1	HVDC	BISWANATH CHARIALI-AGRA	2	457	0	7.1	0.0	7.1
					NER-NR	7.1	0.0	7.1
Import/Export of WR (With NR)								
1	HVDC	CHAMPA-KURUKSHETRA	2	0	1000	0.0	24.0	-24.0
2	HVDC	VINDHYACHAL B/B	-	46	0	1.2	0.0	1.2
3	HVDC	MUNDRA-MOHINDERGARH	2	0	1517	0.0	21.4	-21.4
4	765 kV	GWALIOR-AGRA	2	205	1942	0.1	19.3	-19.2
5	765 kV	GWALIOR-PHAGI	2	0	1766	0.0	26.4	-26.4
6	765 kV	JABALPUR-ORAI	2	0	1042	0.0	23.8	-23.8
7	765 kV	GWALIOR-ORAI	1	888	0	14.7	0.0	14.7
8	765 kV	SATNA-ORAI	1	0	1076	0.0	18.6	-18.6
9	765 kV	BANASKANTHA-CHITORGARH	2	1585	191	24.3	0.3	24.0
10	765 kV	VINDHYACHAL-VARANASI	2	0	2434	0.0	33.3	-33.3
11	400 kV	ZERDA-KANKROLI	1	317	89	3.3	0.0	3.3
12	400 kV	ZERDA -BHINMAL	1	447	255	4.3	0.0	4.3
13	400 kV	VINDHYACHAL -RIHAND	1	962	0	22.1	0.0	22.1
14	400 kV	RAPP-SHUJALPUR	2	423	432	2.7	1.5	1.2
15	220 kV	BHANPURA-RANPUR	1	0	0	0.0	0.0	0.0
16	220 kV	BHANPURA-MORAK	1	0	30	0.0	1.8	-1.8
17	220 kV	MEHGAON-AURAIYA	1	126	0	1.1	0.0	1.1
18	220 kV	MALANPUR-AURAIYA	1	98	6	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	12.1	0.0	12.1
					WR-NR	87.5	170.4	-82.9
Import/Export of WR (With SR)								
1	HVDC	BHADRAWATI B/B	-	0	1006	0.0	11.4	-11.4
2	HVDC	RAIGARH-PUGALUR	2	0	4003	0.0	40.4	-40.4
3	765 kV	SOLAPUR-RAICHUR	2	358	1430	0.2	12.6	-12.4
4	765 kV	WARDHA-NIZAMABAD	2	0	2764	0.0	43.1	-43.1
5	400 kV	KOLHAPUR-KUDGI	2	1320	0	20.0	0.0	20.0
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	0	81	1.4	0.0	1.4
					WR-SR	21.6	107.5	-85.9

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	-1.76
	ER	400kV TALA-BINAGURI 1,2,4 (& 400kV MALBASE - BINAGURI) i.e. BINAGURI RECEIPT (from TALA HEP (6*170MW)	295	0	143	1.99
	ER	220kV CHUKHA-BIRPARA 1&2 (& 220kV MALBASE - BIRPARA) i.e. BIRPARA RECEIPT (from CHUKHA HEP 4*84MW)	0	0	0	-2.46
	NER	132kV GELEPHU-SALAKATI	22	7	14	0.32
	NER	132kV MOTANGA-RANGIA	12	-7	1	0.01
NEPAL	NR	132kV MAHENDRANAGAR-TANAKPUR(NHPC)	-76	0	-55	-1.32
	ER	NEPAL IMPORT (FROM BIHAR)	-88	-24	-74	-1.76
	ER	400kV DHALKEBAR-MUZAFFARPUR 1&2	-245	-35	-216	-5.19
BANGLADESH	ER	BHERAMARA B/B HVDC (BANGLADESH)	-936	-484	-739	-17.75
	NER	132kV COMILLA-SURAJMANI NAGAR 1&2	-116	0	-97	-2.32