



National Load Despatch Centre
राष्ट्रीय भार प्रेषण केंद्र
GRID CONTROLLER OF INDIA LIMITED
ग्रीड कंट्रोलर ऑफ इंडिया लिमिटेड

(Government of India Enterprise/ भारत सरकार का उद्यम)
B-9, QUTUB INSTITUTIONAL AREA, KATWARIA SARAI, NEW DELHI -110016
बी-9, कुतुब इन्स्टीट्यूशनल एरिया, कटवारिया सराये, न्यू दिल्ली-110016

Ref: POSOCO/NLDC/SO/Daily PSP Report

दिनांक: 16th January 2023

To,

- कार्यकारी निदेशक, पू.क्षे.भा.प्रे.के., 14, गोल्फ क्लब रोड, कोलकाता - 700033
Executive Director, ERLDC, 14 Golf Club Road, Tollygunge, Kolkata, 700033
- 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
- 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
- कार्यकारी निदेशक, ऊ.पू.क्षे.भा.प्रे.के., डोंगतेह, लोअर नोंग्रह, लापलंग, शिलोंग - 793006
Executive Director, NERLDC, Dongteih, Lower Nongrah, Lapalang, Shillong - 793006, Meghalaya
- 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 15.01.2023.

महोदय/Dear Sir,

आईईजीसी-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 15- जनवरी -2023 की अखिल भारतीय प्रणाली की दैनिक ग्रीड निष्पादन रिपोर्ट रांभांप्रेके की वेबसाइट पर उपलब्ध 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 15th January 2023, is available at the NLDC website.

धन्यवाद,

Report for previous day

Date of Reporting: 16-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)	51874	53781	34986	20197	2471	163309
Peak Shortage (MW)	100	0	0	0	0	100
Energy Met (MU)	1143	1321	943	419	45	3871
Hydro Gen (MU)	109	34	67	28	7	246
Wind Gen (MU)	6	77	31	-	-	114
Solar Gen (MU)*	119.27	57.80	126.99	2.21	0.53	307
Energy Shortage (MU)	5.32	0.00	0.00	1.18	0.00	6.50
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	59829	65875	51566	21269	2544	198013
Time Of Maximum Demand Met (From NLDC SCADA)	10:27	10:29	09:46	18:30	18:01	10:27

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	0.070	0.00	0.56	2.53	3.09	56.27	40.64

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	8055	0	144.4	42.2	0.2	133	0.60
	Haryana	6941	0	132.9	65.7	-1.2	198	0.00
	Rajasthan	16089	590	297.4	99.0	-1.1	210	4.58
	Delhi	4785	0	78.9	66.8	-0.8	258	0.00
	UP	19160	0	347.8	123.2	0.0	597	0.00
	Uttarakhand	2205	0	42.0	30.0	-0.1	235	0.14
	HP	1794	0	31.9	25.6	-0.3	77	0.00
	J&K(UT) & Ladakh(UT)	2977	0	63.1	61.6	-3.0	57	0.00
	Chandigarh	253	0	4.2	4.4	-0.3	20	0.00
	Chhattisgarh	4779	0	104.8	60.0	0.6	408	0.00
WR	Gujarat	15161	0	313.9	159.3	-3.7	654	0.00
	MP	16559	0	314.1	201.2	0.0	580	0.00
	Maharashtra	26522	0	521.8	169.4	1.1	640	0.00
	Goa	564	0	11.8	10.9	0.5	43	0.00
	DNHDDPDCL	1100	0	25.7	26.1	-0.4	88	0.00
	AMNSIL	731	0	16.2	9.9	0.1	230	0.00
	BALCO	519	0	12.4	12.2	0.2	77	0.00
	Andhra Pradesh	10774	0	181.5	73.8	-0.7	460	0.00
	Telangana	12978	0	218.0	100.6	-1.6	549	0.00
	Karnataka	13175	0	226.0	81.0	-1.0	778	0.00
SR	Kerala	3386	0	66.9	53.6	0.1	280	0.00
	Tamil Nadu	12562	0	244.2	125.5	-3.4	322	0.00
	Puducherry	323	0	6.9	7.1	-0.7	33	0.00
	Bihar	5526	133	96.1	87.9	-2.8	327	0.25
	DVC	3391	0	72.0	48.5	-1.2	226	0.00
	Jharkhand	1660	0	29.8	23.2	-2.6	222	0.93
	Odisha	5222	0	99.2	40.6	-2.6	496	0.00
	West Bengal	6086	0	120.5	-6.2	-2.4	282	0.00
	Sikkim	104	0	1.7	1.7	0.0	14	0.00
	NER	Arunachal Pradesh	153	0	2.6	2.8	-0.3	27
Assam		1347	0	24.0	18.4	-0.1	157	0.00
Manipur		227	0	3.3	3.4	-0.1	40	0.00
Meghalaya		370	0	7.2	6.4	-0.2	20	0.00
Mizoram		128	0	2.1	1.9	-0.3	17	0.00
Nagaland		131	0	2.2	2.1	0.0	23	0.00
Tripura		210	0	3.4	2.1	-0.2	24	0.00

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

	Bhutan	Nepal	Bangladesh
Actual (MU)	-3.2	-10.1	-22.7
Day Peak (MW)	-220.3	-188.7	-1051.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	174.3	-131.4	120.0	-163.8	0.9	0.0
Actual(MU)	171.1	-115.8	117.9	-179.7	1.4	-5.1
O/D/U/D(MU)	-3.2	15.6	-2.1	-15.9	0.4	-5.1

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL	% Share
Central Sector	5838	12771	7498	2045	634	28786	46
State Sector	7015	16268	8048	2488	139	33957	54
Total	12853	29039	15546	4533	773	62743	100

G. Sourcewise generation (Gross) (MU)

	NR	WR	SR	ER	NER	All India	% Share
Coal	727	1297	516	625	12	3177	76
Lignite	32	12	54	0	0	98	2
Hvdro	109	34	67	28	7	246	6
Nuclear	27	37	66	0	0	130	3
Gas, Naptha & Diesel	15	6	5	0	29	56	1
RES (Wind, Solar, Biomass & Others)	153	136	180	2	1	473	11
Total	1062	1523	889	655	50	4179	100

Share of RES in total generation (%)	14.42	8.96	20.29	0.34	1.07	11.31
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	27.15	13.58	35.34	4.68	15.93	20.29

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.016
Based on State Max Demands	1.040

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: 16-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	890	0.0	14.6	-14.6	
4	765 kV	SASARAM-FAITEHPUR	1	0	503	0.0	6.6	-6.6	
5	765 kV	GAYA-BALIA	1	0	796	0.0	14.0	-14.0	
6	400 kV	PUSAULI-VARANASI	1	0	178	0.0	3.2	-3.2	
7	400 kV	PUSAULI-LALAHABAD	1	0	230	0.0	3.7	-3.7	
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	0	725	0.0	10.1	-10.1	
9	400 kV	PATNA-BALIA	2	0	661	0.0	11.9	-11.9	
10	400 kV	NAUBATPUR-BALIA	2	0	722	0.0	13.2	-13.2	
11	400 kV	BIHARSHARIFF-BALIA	2	0	430	0.0	5.6	-5.6	
12	400 kV	MOTIHARI-GORAKHPUR	2	0	542	0.0	8.5	-8.5	
13	400 kV	BIHARSHARIFF-VARANASI	2	0	414	0.0	4.7	-4.7	
14	220 kV	SAHUPUR-KARAMNANA	1	22	148	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	0.5	0.0	0.5	
17	132 kV	KARMANASA-SAHUPURI	1	4	0	0.0	0.0	0.0	
18	132 kV	KARMANASA-CHANDAUJI	1	0	0	0.0	0.0	0.0	
						ER-NR	0.5	104.4	-104.0
Import/Export of ER (With WR)									
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	716	359	6.8	0.0	6.8	
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	372	811	0.0	5.6	-5.6	
3	765 kV	JHARSUGUDA-DURG	2	0	514	0.0	8.6	-8.6	
4	400 kV	JHARSUGUDA-RAIGARH	4	0	627	0.0	9.6	-9.6	
5	400 kV	RANCHI-SIPAT	2	34	357	0.0	3.7	-3.7	
6	220 kV	BUDHIPADAR-RAIGARH	1	0	180	0.0	3.3	-3.3	
7	220 kV	BUDHIPADAR-KORBA	2	78	120	0.0	1.1	-1.1	
						ER-WR	6.8	31.9	-25.0
Import/Export of ER (With SR)									
1	HVDC	JEYPORE-GAZUWAKA B/B	2	0	643	0.0	14.8	-14.8	
2	HVDC	TALCHER-KOLAR BIPOLE	2	0	1987	0.0	36.8	-36.8	
3	765 kV	ANGUL-SRIKAKULAM	2	0	2655	0.0	47.2	-47.2	
4	400 kV	TALCHER-I/C	2	0	744	0.0	5.0	-5.0	
5	220 kV	BALIMELA-UPPER-SILERRU	1	0	0	0.0	0.0	0.0	
						ER-SR	0.0	98.8	-98.8
Import/Export of ER (With NER)									
1	400 kV	BINAGURI-BONGAIGAON	2	192	15	1.6	0.0	1.6	
2	400 kV	ALIPURDUAR-BONGAIGAON	2	614	0	6.6	0.0	6.6	
3	220 kV	ALIPURDUAR-SALAKATI	2	60	0	0.7	0.0	0.7	
						ER-NER	8.9	0.0	8.9
Import/Export of NER (With NR)									
1	HVDC	BISWANATH CHARIALI-AGRA	2	463	0	11.0	0.0	11.0	
						NER-NR	11.0	0.0	11.0
Import/Export of WR (With NR)									
1	HVDC	CHAMPA-KURUKSHETRA	2	0	1010	0.0	23.3	-23.3	
2	HVDC	VINDHYACHAL B/B	-	447	0	7.9	0.0	7.9	
3	HVDC	MUNDRA-MOHINDERGARH	2	0	309	0.0	0.3	-0.3	
4	765 kV	GWALIOR-AGRA	2	0	2372	0.0	24.1	-24.1	
5	765 kV	GWALIOR-PHAGI	2	0	2158	0.0	28.5	-28.5	
6	765 kV	JABALPUR-ORAI	2	0	1152	0.0	28.6	-28.6	
7	765 kV	GWALIOR-ORAI	1	1010	0	18.3	0.0	18.3	
8	765 kV	SATNA-ORAI	1	0	1010	0.0	18.0	-18.0	
9	765 kV	BANASKANTHA-CHITORGARH	2	1990	201	19.9	0.0	19.9	
10	765 kV	VINDHYACHAL-VARANASI	2	0	2736	0.0	37.3	-37.3	
11	400 kV	ZERDA-KANKROLI	1	318	81	2.2	0.0	2.2	
12	400 kV	ZERDA-BHINMAL	1	366	233	1.5	0.0	1.5	
13	400 kV	VINDHYACHAL-RIHAND	0	957	0	21.5	0.0	21.5	
14	400 kV	RAPP-SHUJALPUR	2	370	646	0.0	0.4	-0.4	
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	112	0	0.9	0.0	0.8	
18	220 kV	MALANPUR-AURAIYA	1	82	18	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	73.6	162.3	-88.8
Import/Export of WR (With SR)									
1	HVDC	BHADRAWATI B/B	-	293	809	1.9	6.1	-4.2	
2	HVDC	RAIGARH-PUGALUR	2	0	5005	0.0	27.0	-27.0	
3	765 kV	SOLAPUR-RAICHUR	2	999	1577	0.0	4.0	-4.0	
4	765 kV	WARDHA-NIZAMABAD	2	0	2909	0.0	37.8	-37.8	
5	400 kV	KOLHAPUR-KUDGI	2	1425	0	20.2	0.0	20.2	
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	75	1.4	0.0	1.4	
						WR-SR	23.5	74.7	-51.3

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 MANGDECHHU HEP 4*180MW)	0	0	0	-1.61	
	ER	400kV TALA-BINAGURI 1,2,4 (& 400kV MALBASE - BINAGURI) I.e. BINAGURI RECEIPT (from TALA HEP 0*170MW)	176	0	92	0.49	
	ER	220kV CHUKHA-BIRPARA 1&2 (& 220kV MALBASE - BIRPARA) I.e. BIRPARA RECEIPT (from CHUKHA HEP 4*84MW)	0	0	0	-1.60	
	NER	132kV GELEPHU-SALAKATI	21	9	-15	-0.37	
	NER	132kV MOTANGA-RANGIA	12	0	-3	-0.08	
NEPAL	NR	132kV MAHENDRANAGAR-TANAKPUR(NHPC)	-75	0	-63	-1.52	
	ER	NEPAL IMPORT (FROM BHAR)	-114	-59	-72	-1.72	
	ER	400kV DHALKEBAR-MUZAFFARPUR 1&2	0	0	0	-6.83	
BANGLADESH	ER	BHERAMARA B/B HVDC (BANGLADESH)	-937	-653	-848	-20.34	
	NER	132kV COMILLA-SURAJMANI NAGAR 1&2	-114	0	-99	-2.38	