



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: 02nd February 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 01.02.2023.

महोदय/Dear Sir,

आईईजीसी-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 01- फ़रवरी-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 01st February 2023, is available at the NLDC website.

धन्यवाद,

Report for previous day

Date of Reporting: 02-Feb-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)	51150	57462	44091	20556	2649	175908
Peak Shortage (MW)	540	0	0	461	24	1025
Energy Met (MU)	1077	1385	1089	435	48	4034
Hydro Gen (MU)	116	34	82	31	7	270
Wind Gen (MU)	24	155	48	-	-	227
Solar Gen (MU)*	122.80	57.86	99.07	5.06	0.41	285
Energy Shortage (MU)	2.26	0.00	0.00	3.15	0.05	5.46
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	55797	66668	56469	21196	2753	199487
Time Of Maximum Demand Met (From NLDC SCADA)	09:51	10:30	10:29	18:30	17:48	10:26

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	0.086	0.53	2.33	6.90	9.76	59.75	30.49

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	7608	0	144.1	47.6	-0.4	110	0.00
	Haryana	6913	0	134.5	59.4	-0.6	101	0.44
	Rajasthan	14433	0	271.1	68.6	-0.5	212	0.00
	Delhi	4557	0	75.9	69.2	-1.5	243	0.00
	UP	17458	0	311.1	89.3	-1.5	335	0.00
	Uttarakhand	2159	70	40.7	32.0	-0.3	144	0.79
	HP	1900	0	32.8	25.5	0.0	106	0.78
	J&K(UT) & Ladakh(UT)	2972	0	63.2	60.3	-2.3	127	0.25
	Chandigarh	262	0	4.0	4.4	-0.4	30	0.00
	Chhattisgarh	5100	0	107.2	70.0	-0.7	165	0.00
WR	Gujarat	16823	0	360.4	173.4	-2.8	996	0.00
	MP	14830	0	285.6	151.6	-4.7	262	0.00
	Maharashtra	27424	0	560.0	177.8	0.1	639	0.00
	Goa	665	0	14.4	13.0	1.0	45	0.00
	DNHDDPDCL	1193	0	27.5	27.8	-0.3	62	0.00
	AMNSIL	787	0	17.5	10.2	0.3	224	0.00
	BALCO	516	0	12.3	12.4	-0.1	11	0.00
	Andhra Pradesh	11340	0	206.8	86.8	-2.2	386	0.00
	Telangana	13293	0	238.5	118.6	-1.2	970	0.00
	Karnataka	14664	0	252.0	95.4	-2.8	621	0.00
SR	Kerala	4032	0	79.1	59.5	-0.5	234	0.00
	Tamil Nadu	14981	0	304.2	183.8	-2.7	558	0.00
	Puducherry	399	0	8.5	8.4	-0.5	61	0.00
	Bihar	4759	73	86.7	75.0	-0.6	186	0.83
	DVC	3502	0	74.5	49.3	-0.9	268	0.00
	Jharkhand	1473	0	29.2	24.5	-1.0	99	2.32
	Odisha	4993	0	103.9	39.3	-0.4	290	0.00
	West Bengal	7293	0	139.4	10.1	-2.7	251	0.00
	Sikkim	114	0	1.8	1.9	-0.1	18	0.00
	NER	Arunachal Pradesh	148	0	2.5	2.7	-0.3	31
Assam		1536	0	26.7	20.3	0.1	127	0.05
Manipur		225	0	3.2	3.2	0.0	28	0.00
Meghalaya		369	0	7.0	6.1	-0.1	28	0.00
Mizoram		132	0	2.0	1.6	-0.2	17	0.00
Nagaland		143	0	2.1	2.1	0.0	37	0.00
Tripura		232	0	4.0	2.3	0.0	29	0.00

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

	Bhutan	Nepal	Bangladesh
Actual (MU)	-2.2	-10.3	-23.9
Day Peak (MW)	-246.7	-504.8	-1051.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	115.2	-133.2	158.3	-139.1	-1.2	0.0
Actual(MU)	98.7	-138.1	179.3	-143.7	-0.5	-4.2
O/D/U/D(MU)	-16.5	-4.9	21.1	-4.6	0.7	-4.2

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL	% Share
Central Sector	7317	14520	6988	3295	670	32790	51
State Sector	7690	15516	6253	2462	98	32018	49
Total	15007	30035	13241	5757	768	64808	100

G. Sourcewise generation (Gross) (MU)

	NR	WR	SR	ER	NER	All India	% Share
Coal	700	1308	600	616	15	3238	74
Lignite	33	21	61	0	0	115	3
Hydro	116	34	82	31	7	270	6
Nuclear	12	9	67	0	0	131	3
Gas, Naptha & Diesel	12	9	6	0	32	59	1
RES (Wind, Solar, Biomass & Others)	173	215	168	5	0	561	13
Total	1060	1623	984	652	55	4374	100

Share of RES in total generation (%)	16.31	13.22	17.10	0.79	0.75	12.83
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	29.73	17.60	32.31	5.58	12.68	22.00

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.017
Based on State Max Demands	1.048

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: 02-Feb-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	299	0.0	7.2	-7.2	
3	765 kV	GAYA-VARANASI	2	0	940	0.0	12.8	-12.8	
4	765 kV	SASARAM-FAITEHPUR	1	0	416	0.0	6.7	-6.7	
5	765 kV	GAYA-BALIA	1	0	700	0.0	6.8	-6.8	
6	400 kV	PUSAULI-VARANASI	1	0	219	0.0	4.4	-4.4	
7	400 kV	PUSAULI-ALLAHABAD	1	0	161	0.0	2.6	-2.6	
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	0	847	0.0	9.0	-9.0	
9	400 kV	PATNA-BALIA	2	0	551	0.0	9.9	-9.9	
10	400 kV	NAIBATTI-BALIA	2	0	599	0.0	10.6	-10.6	
11	400 kV	BIHARSHARIFF-BALIA	2	0	469	0.0	5.2	-5.2	
12	400 kV	MOTIHARI-GORAKHPUR	2	0	462	0.0	6.5	-6.5	
13	400 kV	BIHARSHARIFF-VARANASI	2	0	339	0.0	3.8	-3.8	
14	220 kV	SAHUPUR-CHAMANASA	1	0	144	0.0	1.5	-1.5	
15	132 kV	NAGARUNTARI-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	0	53	0.0	0.0	0.0	
18	132 kV	KARMANASA-CHANDALI	1	0	0	0.0	0.0	0.0	
						ER-NR	0.4	87.2	-86.8
Import/Export of ER (With WR)									
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	1751	0	25.2	0.0	25.2	
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	328	577	0.0	3.2	-3.2	
3	765 kV	JHARSUGUDA-DURG	2	0	382	0.0	6.4	-6.4	
4	400 kV	JHARSUGUDA-RAIGARH	4	0	689	0.0	10.2	-10.2	
5	400 kV	RANCHI-SIPAT	2	63	217	0.0	1.6	-1.6	
6	220 kV	BUDHIPADAR-RAIGARH	1	0	183	0.0	2.9	-2.9	
7	220 kV	BUDHIPADAR-KORBA	2	33	79	0.0	0.5	-0.5	
						ER-WR	25.2	24.8	0.4
Import/Export of ER (With SR)									
1	HVDC	JEYPORE-GAZUWAKA B/B	2	0	544	0.0	12.4	-12.4	
2	HVDC	TALCHER-KOLAR BIPOLE	2	0	1648	0.0	39.6	-39.6	
3	765 kV	ANGUL-SRIKAKULAM	2	0	2851	0.0	56.8	-56.8	
4	400 kV	TALCHER-IC	2	0	399	0.0	7.2	-7.2	
5	220 kV	BALIMELA-UPPER-SILERRU	1	0	0	0.0	0.0	0.0	
						ER-SR	0.0	108.8	-108.8
Import/Export of ER (With NER)									
1	400 kV	BINAGURI-BONGAIGAOON	2	163	0	2.0	0.0	2.0	
2	400 kV	ALIPURDUAR-BONGAIGAOON	2	574	0	8.6	0.0	8.6	
3	220 kV	ALIPURDUAR-SALAKATI	2	60	0	0.8	0.0	0.8	
						ER-NER	11.4	0.0	11.4
Import/Export of NER (With NR)									
1	HVDC	BISWANATH CHARIALI-AGRA	2	484	0	11.5	0.0	11.5	
						NER-NR	11.5	0.0	11.5
Import/Export of WR (With NR)									
1	HVDC	CHAMPA-KURUKSHETRA	2	0	2004	0.0	11.8	-11.8	
2	HVDC	VINDHYACHAL B/B	-	226	0	5.2	0.0	5.2	
3	HVDC	MUNDRA-MOHENDERGARH	2	495	0	11.8	0.0	11.8	
4	765 kV	GWALIOR-AGRA	2	0	1466	0.0	23.5	-23.5	
5	765 kV	GWALIOR-PHAGI	2	306	1504	0.0	18.0	-18.0	
6	765 kV	JABALPUR-ORAI	2	0	591	0.0	18.2	-18.2	
7	765 kV	GWALIOR-ORAI	1	934	0	15.1	0.0	15.1	
8	765 kV	SATNA-ORAI	1	0	665	0.0	13.2	-13.2	
9	765 kV	BANASKANTHA-CHITORGARH	2	1630	0	17.4	0.0	17.4	
10	765 kV	VINDHYACHAL-VARANASI	2	0	1232	0.0	19.5	-19.5	
11	400 kV	ZERDA-KANKROLI	1	367	0	3.6	0.0	3.6	
12	400 kV	ZERDA-BHINMAL	1	550	0	5.6	0.0	5.6	
13	400 kV	VINDHYACHAL -RIHAND	1	478	0	10.8	0.0	10.8	
14	400 kV	RAPP-SHUJALPUR	2	635	147	2.9	0.0	2.9	
15	220 kV	BHANPURA-RANPUR	1	132	121	0.0	2.4	-2.4	
16	220 kV	BHANPURA-MORAK	1	0	30	0.0	1.0	-1.0	
17	220 kV	MEHGAON-AURAIYA	1	103	0	0.8	0.0	0.8	
18	220 kV	MALANPUR-AURAIYA	1	75	0	1.3	0.0	1.3	
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	74.5	107.8	-33.2
Import/Export of WR (With SR)									
1	HVDC	BHADRAWATI B/B	-	0	1009	0.0	13.8	-13.8	
2	HVDC	RAIGARH-PUGALUR	2	0	4009	0.0	36.6	-36.6	
3	765 kV	SOLAPUR-RAICHUR	2	0	2338	0.0	24.5	-24.5	
4	765 kV	WARDHA-NIZAMABAD	2	0	3280	0.0	51.2	-51.2	
5	400 kV	KOLHAPUR-KUDGI	2	1309	0	21.7	0.0	21.7	
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	90	0.0	0.0	0.0	
						WR-SR	21.7	126.1	-104.4

INTERNATIONAL EXCHANGES

Import(+ve)/Export(-ve)

State	Region	Line Name	Max (MW)	Min (MW)	Avg (MW)	Energy Exchange (MU)
BHUTAN	ER	400kV MANGDECHU-ALIPURDUAR 1,2&3 i.e. ALIPURDUAR RECEIPT (from MANGDECHU HEP 4*180MW)	0	0	0	-1.93
	ER	400kV TALA-BINAGURI 1,2,4 (& 400kV MALBASE - BINAGURI) i.e. BINAGURI RECEIPT (from TALA HEP 6*170MW)	181	0	64	1.58
	ER	220kV CHUKHA-BIRPARA 1&2 (& 220kV MALBASE - BIRPARA) i.e. BIRPARA RECEIPT (from CHUKHA HEP 4*90MW)	0	0	0	-1.34
	NER	132kV GELEPHU-SALAKATI	-23	-13	-19	-0.46
	NER	132kV MOTANGA-RANGIA	-18	0	-1	-0.03
NEPAL	NR	132kV MAHENDRANAGAR-TANAKPUR(NHPC)	-68	0	-57	-1.38
	ER	NEPAL IMPORT (FROM BIHAR)	-105	-60	-79	-1.89
	ER	400kV DHALKHEBAR-MUZAFFARPUR 1&2	-332	-113	-294	-7.06
BANGLADESH	ER	BHERAMARA B/B HVDC (BANGLADESH)	-921	-778	-889	-21.34
	NER	132kV COMILLA-SURAJMANI NAGAR 1&2	-130	0	-108	-2.58