



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: 03rd 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 02.02.2023.

महोदय/Dear Sir,

आईईजीसी-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 02- 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 02nd February 2023, is available at the NLDC website.

धन्यवाद,

Report for previous day

Date of Reporting: 03-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)	52402	58408	43913	20998	2579	178300
Peak Shortage (MW)	100	0	0	514	40	654
Energy Met (MU)	1096	1393	1095	439	47	4070
Hydro Gen (MU)	119	31	76	31	8	265
Wind Gen (MU)	7	90	81	-	-	178
Solar Gen (MU)*	126.34	62.27	95.93	5.98	0.70	291
Energy Shortage (MU)	1.23	0.00	0.00	3.17	0.07	4.47
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	57018	67022	55998	21292	2765	200685
Time Of Maximum Demand Met (From NLDC SCADA)	09:42	10:22	10:56	18:35	17:58	09:45

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	0.072	0.01	1.22	12.58	13.81	65.03	21.17

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	7674	0	145.9	44.6	-1.0	84	0.60
	Haryana	7093	0	137.2	64.1	0.0	191	0.00
	Rajasthan	15398	0	280.2	85.6	-0.5	182	0.00
	Delhi	4406	0	74.8	67.0	-1.4	341	0.00
	UP	17773	0	314.9	89.9	-0.8	342	0.00
	Uttarakhand	2179	0	41.4	32.9	-0.6	95	0.56
	HP	1913	0	33.6	26.6	-0.1	61	0.07
	J&K(UT) & Ladakh(UT)	3044	0	64.4	60.9	-2.2	61	0.00
WR	Chhattisgarh	251	0	3.8	4.0	-0.2	32	0.00
	Chhattisgarh	4965	0	105.9	59.5	-0.8	256	0.00
	Gujarat	17630	0	369.7	196.1	3.3	795	0.00
	MP	14835	0	284.0	164.3	-3.6	570	0.00
	Maharashtra	27372	0	561.6	176.2	0.4	670	0.00
	Goa	659	0	14.1	13.0	0.7	47	0.00
	DNHDDPDCL	1228	0	28.1	28.2	-0.1	48	0.00
	AMNSIL	811	0	17.4	10.7	-0.6	244	0.00
SR	BALCO	516	0	12.3	12.4	-0.1	6	0.00
	Andhra Pradesh	11327	0	210.2	75.9	-0.8	496	0.00
	Telangana	13091	0	241.6	113.3	1.0	766	0.00
	Karnataka	14302	0	252.5	86.4	-2.7	886	0.00
	Kerala	3935	0	79.4	61.2	-0.1	149	0.00
	Tamil Nadu	15164	0	302.7	182.6	0.1	900	0.00
	Puducherry	383	0	8.2	8.4	-0.8	53	0.00
	Bihar	4981	0	89.7	77.8	-0.4	186	0.18
ER	DVC	3410	0	73.9	-53.1	-0.1	224	0.00
	Jharkhand	1436	235	25.6	23.3	-3.0	86	2.99
	Odisha	4860	0	101.8	31.2	-2.2	226	0.00
	West Bengal	7109	0	146.7	9.0	-2.3	156	0.00
	Sikkim	115	0	1.8	1.5	0.4	53	0.00
NER	Arunachal Pradesh	142	0	2.2	2.9	-0.8	5	0.00
	Assam	1554	0	26.6	20.4	-0.2	145	0.07
	Manipur	221	0	3.1	3.2	-0.1	23	0.00
	Meghalaya	382	0	6.8	6.2	-0.1	47	0.00
	Mizoram	132	0	2.0	1.6	-0.2	6	0.00
	Nagaland	140	0	2.1	2.1	-0.1	15	0.00
Tripura	234	0	3.9	2.4	-0.2	20	0.00	

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

	Bhutan	Nepal	Bangladesh
Actual (MU)	-1.8	-10.1	-24.0
Day Peak (MW)	-188.3	-506.6	-1058.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	122.3	-107.7	141.1	-153.0	-2.7	0.0
Actual(MU)	107.7	-102.8	149.7	-155.5	-2.3	-3.1
O/D/U/D(MU)	-14.6	4.8	8.7	-2.4	0.4	-3.1

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL	% Share
Central Sector	7136	13125	6988	2985	514	30747	50
State Sector	7280	15806	5193	1882	98	30258	50
Total	14416	28930	12181	4867	612	61005	100

G. Sourcewise generation (Gross) (MU)

	NR	WR	SR	ER	NER	All India	% Share
Coal	716	1397	601	629	15	3359	75
Lignite	34	21	61	0	0	115	3
Hvdro	119	31	76	31	8	265	6
Nuclear	26	37	76	0	0	139	3
Gas, Naptha & Diesel	12	11	6	0	32	61	1
RES (Wind, Solar, Biomass & Others)	158	154	199	7	1	518	12
Total	1064	1651	1018	667	56	4457	100

Share of RES in total generation (%)	14.82	9.31	19.54	1.00	1.24	11.62
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	28.44	13.45	34.45	5.61	16.31	20.69

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.017
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: 03-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-BR	-	1	297	0.0	7.1	-7.1	
3	765 kV	GAYA-VARANASI	2	0	875	0.0	12.3	-12.3	
4	765 kV	SASARAM-FAHEHPUR	1	0	458	0.0	7.5	-7.5	
5	765 kV	GAYA-BALIA	1	0	668	0.0	10.8	-10.8	
6	400 kV	PUSAULI-VARANASI	1	37	200	0.0	4.1	-4.1	
7	400 kV	PUSAULI-ALLAHABAD	1	0	182	0.0	2.9	-2.9	
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	0	916	0.0	8.9	-8.9	
9	400 kV	PATNA-BALIA	2	0	607	0.0	9.8	-9.8	
10	400 kV	NAUBATPUR-BALIA	2	0	659	0.0	10.7	-10.7	
11	400 kV	BIHARSHARIFF-BALIA	2	0	440	0.0	6.1	-6.1	
12	400 kV	MOTIHARI-GORAKHPUR	2	0	534	0.0	6.9	-6.9	
13	400 kV	BIHARSHARIFF-VARANASI	2	0	396	0.0	4.5	-4.5	
14	220 kV	SAHUPURI-KARMANASA	1	0	126	0.0	1.6	-1.6	
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	0	52	0.0	0.0	0.0	
18	132 kV	KARMANASA-CHANDAUJI	1	0	0	0.0	0.0	0.0	
						ER-NR	0.4	93.0	-92.6
Import/Export of ER (With WR)									
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	1155	0	19.3	0.0	19.3	
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	323	505	0.0	2.0	-2.0	
3	765 kV	JHARSUGUDA-DURG	2	0	447	0.0	7.7	-7.7	
4	400 kV	JHARSUGUDA-RAIGARH	4	0	663	0.0	10.1	-10.1	
5	400 kV	RANCHI-SIPAT	2	31	212	0.0	1.7	-1.7	
6	220 kV	BUDHIPADAR-RAIGARH	1	0	183	0.0	3.0	-3.0	
7	220 kV	BUDHIPADAR-KORBA	2	49	59	0.0	0.3	-0.3	
						ER-WR	19.3	24.8	-5.5
Import/Export of ER (With SR)									
1	HVDC	JEYPORE-GAZUWAKA B/B	2	0	541	0.0	12.4	-12.4	
2	HVDC	TALCHER-KOLAR BIPOLE	2	0	1988	0.0	41.1	-41.1	
3	765 kV	ANGUL-SRIKAKULAM	2	0	2938	0.0	56.9	-56.9	
4	400 kV	TALCHER-I/C	2	0	715	0.0	8.5	-8.5	
5	220 kV	BALIMELA-UPPER-SILERRU	1	0	0	0.0	0.0	0.0	
						ER-SR	0.0	110.4	-110.4
Import/Export of ER (With NER)									
1	400 kV	BINAGURI-BONGAIGAON	2	245	0	3.0	0.0	3.0	
2	400 kV	ALIPURDUAR-BONGAIGAON	2	622	0	9.0	0.0	9.0	
3	220 kV	ALIPURDUAR-SALAKATI	2	58	0	0.9	0.0	0.9	
						ER-NER	12.8	0.0	12.8
Import/Export of NER (With NR)									
1	HVDC	BISWANATH CHARIALI-AGRA	2	483	0	11.4	0.0	11.4	
						NER-NR	11.4	0.0	11.4
Import/Export of WR (With NR)									
1	HVDC	CHAMPA-KURUKSHETRA	2	0	1005	0.0	12.4	-12.4	
2	HVDC	VINDHYACHAL B/B	-	441	0	12.1	0.0	12.1	
3	HVDC	MUNDRA-MOHINDERGARH	2	592	0	10.6	0.0	10.6	
4	765 kV	GWALIOR-AGRA	2	0	2043	0.0	23.9	-23.9	
5	765 kV	GWALIOR-PHAGI	2	0	1878	0.0	27.5	-27.5	
6	765 kV	JABALPUR-ORAI	2	0	1027	0.0	23.1	-23.1	
7	765 kV	GWALIOR-ORAI	1	1015	0	16.4	0.0	16.4	
8	765 kV	SATNA-ORAI	1	0	979	0.0	16.7	-16.7	
9	765 kV	BANASKANTHA-CHITORGARH	2	2553	0	34.2	0.0	34.2	
10	765 kV	VINDHYACHAL-VARANASI	2	0	1962	0.0	27.0	-27.0	
11	400 kV	ZERDA-KANKROLI	1	423	0	5.2	0.0	5.2	
12	400 kV	ZERDA-BHINMAL	1	624	23	6.2	0.0	6.2	
13	400 kV	VINDHYACHAL-RIHAND	1	475	0	10.9	0.0	10.9	
14	400 kV	RAPP-SHUJALPUR	2	608	432	3.4	2.3	1.1	
15	220 kV	BHANPURA-RANPUR	1	0	156	0.0	1.2	-1.2	
16	220 kV	BHANPURA-MORAK	1	0	30	0.0	2.4	-2.4	
17	220 kV	MEHGAON-AURAIYA	1	107	0	0.9	0.0	0.9	
18	220 kV	MALANPUR-AURAIYA	1	83	0	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	101.3	136.5	-35.2
Import/Export of WR (With SR)									
1	HVDC	BHADRAWATI B/B	-	0	1006	0.0	12.0	-12.0	
2	HVDC	RAIGARH-PUGALUR	2	0	1002	0.0	20.5	-20.5	
3	765 kV	SOLAPUR-RAICHUR	2	39	1679	0.0	17.8	-17.8	
4	765 kV	WARDHA-NIZAMABAD	2	0	2715	0.0	47.0	-47.0	
5	400 kV	KOLHAPUR-KUDGI	2	1349	0	22.7	0.0	22.7	
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	91	1.6	0.0	1.6	
						WR-SR	24.3	97.3	-73.0
INTERNATIONAL EXCHANGES									
State	Region	Line Name	Max (MW)	Min (MW)	Avg (MW)	Import(+ve)/Export(-ve) Energy Exchange (MU)			
BHUTAN	ER	400kV MANGDECHHU-ALIPURDUAR 1&2 I.e. ALIPURDUAR RECEIPT (from MANGDECHHU HEP 4*180MW)	0	0	0	-1.75			
	ER	400kV TALA-BINAGURI 1,2,4 I.e. 400kV MALBASE - BINAGURI I.e. BINAGURI RECEIPT (from TALA HEP 6*170MW)	165	0	75	1.84			
	ER	220kV CHUKHA-BIRPARA 1&2 I.e. 220kV MALBASE - BIRPARA I.e. BIRPARA RECEIPT (from CHUKHA HEP 4*84MW)	0	0	0	-1.47			
	NER	132kV GELEPHU-SALAKATI	-25	-9	-21	-0.50			
	NER	132kV MOTANGA-RANGIA	19	0	3	0.06			
NEPAL	NR	132kV MAHENDRANAGAR-TANAKPUR(NHPC)	-71	0	-60	-1.45			
	ER	NEPAL IMPORT (FROM BIHAR)	-122	-61	-85	-2.05			
	ER	400kV DHAIKEBAR-MUZAFFARPUR 1&2	-314	-50	-276	-6.63			
BANGLADESH	ER	BHERAMARA B/B HVDC (BANGLADESH)	-925	-778	-891	-21.38			
	NER	132kV COMILLA-SURAJMANI NAGAR 1&2	-133	0	-109	-2.62			