



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: 06th February 2024

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 05.02.2024.

महोदय/Dear Sir,

आईईजीसी-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 05-फ़रवरी-2024 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 05th February 2024, is available at the NLDC website.

धन्यवाद,

Report for previous day

Date of Reporting: 06-Feb-2024

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)	55227	63232	46315	20039	2528	187341
Peak Shortage (MW)	130	0	0	680	203	1013
Energy Met (MU)	1097	1495	1223	434	48	4297
Hydro Gen (MU)	95	35	51	22	8	211
Wind Gen (MU)	7	23	50	-	-	80
Solar Gen (MU)*	124.87	62.77	127.27	5.77	0.67	321
Energy Shortage (MU)	0.19	0.00	0.00	3.74	1.92	5.85
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	58420	74114	60649	21988	2589	214108
Time Of Maximum Demand Met	10:30	10:46	11:58	18:19	18:18	10:31

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	0.057	0.00	0.24	5.21	5.45	60.50	34.05

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	7925	0	143.8	49.5	1.1	228	0.00
	Haryana	7457	0	139.3	82.8	-1.1	147	0.00
	Rajasthan	15863	0	288.1	100.4	-5.1	98	0.00
	Delhi	4803	0	79.6	70.4	-2.0	230	0.00
	UP	18219	0	294.1	79.3	-2.0	516	0.00
	Uttarakhand	2348	0	43.7	32.2	0.0	165	0.00
	HP	1940	0	35.9	31.1	-0.4	137	0.06
	J&K(UT) & Ladakh(UT)	3028	0	64.6	60.5	-1.1	125	0.13
	Chandigarh	280	0	4.9	4.8	0.1	46	0.00
Railways NR ISTS	167	0	3.5	3.6	-0.1	14	0.00	
WR	Chhattisgarh	5485	0	114.0	51.8	-1.3	400	0.00
	Gujarat	21248	0	413.5	188.1	-2.6	563	0.00
	MP	15676	0	301.0	191.8	-1.0	687	0.00
	Maharashtra	28473	0	593.4	184.9	-1.2	819	0.00
	Goa	696	0	12.7	13.3	-1.1	45	0.00
	DNHDDPDCL	1272	0	28.8	28.8	0.0	35	0.00
	AMNSIL	875	0	19.1	9.8	0.2	251	0.00
	BALCO	520	0	12.4	12.5	-0.1	11	0.00
	Andhra Pradesh	12387	0	227.5	80.2	-2.3	429	0.00
SR	Telangana	13895	0	259.7	131.7	0.9	774	0.00
	Karnataka	15871	0	294.3	143.9	1.3	1392	0.00
	Kerala	4372	0	87.3	73.0	1.7	440	0.00
	Tamil Nadu	16768	0	345.1	175.3	0.7	527	0.00
	Puducherry	407	0	9.0	8.8	-0.4	11	0.00
	Bihar	4885	0	85.7	75.4	-0.3	293	0.49
ER	DVC	3360	0	70.3	-45.6	1.3	287	0.00
	Jharkhand	1547	237	29.3	24.5	-1.0	283	3.25
	Odisha	4821	0	98.2	10.8	-0.5	469	0.00
	West Bengal	7100	0	148.5	21.4	-2.0	290	0.00
	Sikkim	126	0	2.1	2.0	0.1	25	0.00
	Railways ER ISTS	16	0	0.1	0.1	0.0	0	0.00
NER	Arunachal Pradesh	173	0	3.2	3.0	0.1	64	0.00
	Assam	1452	215	27.2	21.4	1.3	171	1.73
	Manipur	217	9	3.0	3.0	0.0	40	0.19
	Meghalaya	399	0	6.9	5.3	-0.1	73	0.00
	Mizoram	154	0	2.4	1.7	0.0	16	0.00
	Nagaland	146	0	2.3	2.4	-0.1	39	0.00
Tripura	232	0	3.5	3.4	-0.4	35	0.00	

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

	Bhutan	Nepal	Bangladesh	Godda -> Bangladesh
Actual (MU)	-10.3	-12.9	-22.2	-17.7
Day Peak (MW)	-675.0	-583.5	-1061.0	-765.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	196.0	-229.7	196.9	-172.6	9.4	0.0
Actual(MU)	185.8	-234.0	208.0	-176.9	9.8	-7.3
O/D/U/D(MU)	-10.2	-4.3	11.1	-4.3	0.4	-7.3

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL	% Share
Central Sector	7741	9255	4488	4262	871	26617	51
State Sector	7786	9307	5824	2119	281	25316	49
Total	15527	18562	10312	6381	1152	51934	100

G. Sourcewise generation (Gross) (MU)

	NR	WR	SR	ER	NER	All India	% Share
Coal	670	1611	694	676	11	3662	78
Lignite	32	12	63	0	0	107	2
Hydro	95	35	51	22	8	211	5
Nuclear	31	40	52	0	0	123	3
Gas, Naptha & Diesel	15	60	6	0	25	106	2
RES (Wind, Solar, Biomass & Others)	154	89	224	8	1	477	10
Total	999	1848	1089	707	44	4687	100

Share of RES in total generation (%)	15.45	4.84	20.54	1.17	1.51	10.16
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	28.18	8.95	29.98	4.33	20.71	17.35

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.017
Based on State Max Demands	1.049

I. All India Peak Demand and shortage at Solar and Non-Solar Hour

	Max Demand Met(MW)	Time	Shortage(MW)
Solar hr	214108	10:31	475
Non-Solar hr	194658	18:44	448

Diversity factor = Sum of regional or state maximum demands / All India maximum demand

**Note: All generation MU figures are gross

***Godda (Jharkhand) -> Bangladesh power exchange is through the radial connection (isolated from Indian Grid)

Solar Hours -> 07:00 to 17:00hrs and rest are Non-Solar Hours

*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: 06-Feb-2024

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	49	0.0	1.2	-1.2
3	765 kV	GAYA-VARANASI	2	0	958	0.0	13.8	-13.8
4	765 kV	SASARAM-FATEHPUR	1	0	554	0.0	9.8	-9.8
5	765 kV	GAYA-BALIA	1	0	789	0.0	10.9	-10.9
6	400 kV	PUSAULI-VARANASI	1	26	51	0.0	0.4	-0.4
7	400 kV	PUSAULI-ALLAHABAD	1	5	74	0.0	0.7	-0.7
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	0	778	0.0	7.5	-7.5
9	400 kV	PATNA-BALIA	2	0	767	0.0	11.6	-11.6
10	400 kV	NAUBATPUR-BALIA	2	0	405	0.0	5.9	-5.9
11	400 kV	BIHARSHARIF-BALIA	2	4	408	0.0	3.7	-3.7
12	400 kV	MOTIHARI-GORAKHPUR	2	0	626	0.0	8.7	-8.7
13	400 kV	BIHARSHARIF-VARANASI	2	0	360	0.0	4.4	-4.4
14	220 kV	SAHUPURI-KARAMNANA	1	0	120	0.0	1.3	-1.3
15	132 kV	NAGAR UNTARI-RIHAND	1	0	0	0.0	0.0	0.0
16	132 kV	GARWAH-RIHAND	1	30	0	0.3	0.0	0.3
17	132 kV	KARMANASA-SAHUPURI	1	0	0	0.0	0.0	0.0
18	132 kV	KARMANASA-CHANDALI	1	0	0	0.0	0.0	0.0
ER-NR						0.3	79.8	-79.5
Import/Export of ER (With WR)								
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	6	1009	0.0	12.4	-12.4
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	266	823	0.0	5.3	-5.3
3	765 kV	JHARSUGUDA-DURG	2	0	745	0.0	13.2	-13.2
4	400 kV	JHARSUGUDA-RAIGARH	4	0	707	0.0	13.6	-13.6
5	400 kV	RANCHI-SIPAT	2	0	296	0.0	2.6	-2.6
6	220 kV	BUDHIPADAR-RAIGARH	1	0	175	0.0	2.5	-2.5
7	220 kV	BUDHIPADAR-KORBA	2	64	124	0.0	0.8	-0.8
ER-WR						0.0	50.4	-50.4
Import/Export of ER (With SR)								
1	HVDC	JEYPORE-GAZUWAKA B/B	2	0	510	0.0	11.0	-11.0
2	HVDC	TALCHER-KOLAR BIPOLE	2	0	1984	0.0	34.3	-34.3
3	765 kV	ANGUL-SRIKAKULAM	2	0	2703	0.0	53.4	-53.4
4	400 kV	TALCHER-I/C	2	725	290	9.3	0.0	9.3
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	156	66	0.8	0.3	0.5
2	400 kV	ALIPURDUAR-BONGAIGAON	2	515	4	4.7	0.0	4.7
3	220 kV	ALIPURDUAR-SALAKATI	2	90	2	0.9	0.0	0.9
ER-NER						6.4	0.3	6.1
Import/Export of NER (With NR)								
1	HVDC	BISWANATH CHARIALI-AGRA	2	702	0	16.7	0.0	16.7
NER-NR						16.7	0.0	16.7
Import/Export of WR (With NR)								
1	HVDC	CHAMPA-KIRUKSHETRA	2	0	2009	0.0	48.0	-48.0
2	HVDC	VINDHYACHAL B/B	-	270	0	7.2	0.0	7.2
3	HVDC	MUNDRA-MOHINDERGARH	2	0	496	0.0	12.2	-12.2
4	765 kV	GWALIOR-AGRA	2	0	2193	0.0	24.6	-24.6
5	765 kV	GWALIOR-PHAGI	2	0	1894	0.0	27.7	-27.7
6	765 kV	JABALPUR-ORAI	2	0	1060	0.0	28.8	-28.8
7	765 kV	GWALIOR-ORAI	1	830	0	13.7	0.0	13.7
8	765 kV	SATNA-ORAI	1	0	1200	0.0	19.2	-19.2
9	765 kV	BANASKANTHA-CHITORGARH	2	1691	246	20.8	0.2	20.7
10	765 kV	VINDHYACHAL-VARANASI	2	0	2346	0.0	29.9	-29.9
11	400 kV	ZERDA-KANKROLI	1	250	73	3.0	0.1	2.9
12	400 kV	ZERDA -BHINMAL	1	675	288	5.6	0.7	4.9
13	400 kV	VINDHYACHAL -RIHAND	1	488	0	10.6	0.0	10.6
14	400 kV	RAPP-SHUJALPUR	2	485	494	3.0	2.4	0.5
15	220 kV	BHANPURA-RANPUR	1	162	138	0.6	1.5	-0.9
16	220 kV	BHANPURA-MORAK	1	0	30	0.6	0.9	-0.3
17	220 kV	MEHGAON-AURAIYA	1	95	3	1.0	0.0	1.0
18	220 kV	MALANPUR-AURAIYA	1	74	22	0.6	0.0	0.6
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						66.6	196.2	-129.6
Import/Export of WR (With SR)								
1	HVDC	BHADRAWATI B/B	-	0	1014	0.0	20.3	-20.3
2	HVDC	RAIGARH-PUGALUR	2	0	5017	0.0	66.9	-66.9
3	765 kV	SOLAPUR-RAICHUR	2	951	1681	2.0	14.7	-12.7
4	765 kV	WARDHA-NIZAMABAD	2	0	2636	0.0	38.3	-38.3
5	765 kV	WARORA-WARANGAL(NEW)	2	0	2440	0.0	38.6	-38.6
6	400 kV	KOLHAPUR-KUDGI	2	1407	0	19.5	0.0	19.5
7	220 kV	KOLHAPUR-CHIKODI	2	0	0	0.0	0.0	0.0
8	220 kV	PONDA-AMBEWADI	1	0	0	0.0	0.0	0.0
9	220 kV	XELDEM-AMBEWADI	1	0	118	2.2	0.0	2.2
WR-SR						23.6	178.9	-155.3

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)	-208	91	-133	-3.20
	ER	400kV TALA-BINAGURI 1,2,4 (& 400kV MALBASE - BINAGURI) i.e. BINAGURI RECEIPT (from TALA HEP 6*170MW)	-264	204	-98	-2.35
	ER	220kV CHUKHA-BIRPARA 1&2 (& 220kV MALBASE - BIRPARA) i.e. BIRPARA RECEIPT (from CHUKHA HEP 4*84MW)	-219	-84	-167	-4.00
	NER	132kV GELEPHU-SALAKATI	-26	-3	-19	-0.46
	NER	132kV MOTANGA-RANGIA	-48	0	-13	-0.31
NEPAL	NR	NEPAL IMPORT (FROM UP)	-78	0	-51	-1.22
	NR	132kV MAHENDRANAGAR-TANAKPUR(NHPC)	-78	0	-60	-1.45
	ER	NEPAL IMPORT (FROM BIHAR)	-174	-14	-43	-1.04
	ER	400kV DHALKEBAR-MUZAFFARPUR 1&2	-410	-127	-382	-9.16
BANGLADESH	ER	BHERAMARA B/B HVDC (B'DESH)	-927	-542	-813	-19.52
	ER (Isolated from Indian Grid)	400kV GODDA_TPS-RAHANPUR (B'DESH) D/C	-765	-604	-738	-17.72
	NER	132kV COMILLA-SURAJMANI NAGAR 1&2	-134	0	-112	-2.68

CROSS BORDER EXCHANGE SCHEDULE

Date of Reporting: 06-Feb-2024

Export From India (in MU)

Country	GNA (ISGS/PPA)	T-GNA							TOTAL
		BILATERAL TOTAL	COLLECTIVE						
			IDAM			RTM			
IEX	PXIL	HPX	IEX	PXIL	HPX				
Bhutan	0.00	0.00	10.82	0.00	0.00	0.52	0.00	0.00	11.34
Nepal	0.26	0.00	9.43	0.00	0.00	0.00	0.00	0.00	9.69
Bangladesh	19.43	0.00	0.00	0.00	0.00	0.00	0.00	0.00	19.43
Myanmar	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total Export	19.69	0.00	20.25	0.00	0.00	0.52	0.00	0.00	40.46

Import by India(in MU)

Country	GNA (ISGA/PPA)	T-GNA							TOTAL
		BILATERAL TOTAL	COLLECTIVE						
			IDAM			RTM			
IEX	PXIL	HPX	IEX	PXIL	HPX				
Bhutan	0.43	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.43
Nepal	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Bangladesh	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Myanmar	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total Import	0.43	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.43

Net from India(in MU)

-ve : Export / +ve : Import

Country	GNA (ISGS/PPA)	T-GNA							TOTAL
		BILATERAL TOTAL	COLLECTIVE						
			IDAM			RTM			
IEX	PXIL	HPX	IEX	PXIL	HPX				
Bhutan	0.43	0.00	-10.82	0.00	0.00	-0.52	0.00	0.00	-10.91
Nepal	-0.26	0.00	-9.43	0.00	0.00	0.00	0.00	0.00	-9.69
Bangladesh	-19.43	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-19.43
Myanmar	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total Net	-19.26	0.00	-20.25	0.00	0.00	-0.52	0.00	0.00	-40.03