



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, कुतुब इन्स्टीट्यूशनल एरिया, कटवारिया सराये, न्यू दिल्ली-110016

Ref: POSOCO/NLDC/SO/Daily PSP Report

दिनांक: 05th March 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., डोंगतेिह, 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 04.03.2024.

महोदय/Dear Sir,

आई०ई०जी०सी०-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 04-मार्च -2024 की अखिल भारतीय प्रणाली की दैनिक ग्रिड निष्पादन रिपोर्ट रा०भा०प्रे०के० 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 04th March 2024, is available at the NLDC website.

धन्यवाद,

Report for previous day

Date of Reporting: 05-Mar-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)	50603	60241	51835	21891	2544	187114
Peak Shortage (MW)	40	0	0	210	0	250
Energy Met (MU)	1043	1390	1327	452	49	4262
Hydro Gen (MU)	144	24	49	14	10	241
Wind Gen (MU)	16	66	29	-	-	112
Solar Gen (MU)*	163.99	86.26	150.08	3.12	0.51	404
Energy Shortage (MU)	0.28	0.00	0.00	0.35	0.00	0.63
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	54491	65877	65958	22462	2760	206560
Time Of Maximum Demand Met	09:32	11:00	11:44	18:31	18:32	10:28

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	0.045	0.00	0.00	3.26	3.26	73.70	23.04

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	6911	0	138.3	51.1	-0.6	175	0.00
	Haryana	6555	0	132.3	90.1	0.2	211	0.00
	Rajasthan	15696	0	291.8	90.9	-1.8	284	0.00
	Delhi	3918	0	63.0	60.1	1.4	270	0.00
	UP	15593	0	281.8	69.0	-0.3	481	0.00
	Uttarakhand	2057	0	38.1	18.1	0.3	221	0.09
	HP	1788	0	31.4	24.6	-0.8	76	0.00
	J&K(UT) & Ladakh(UT)	2750	0	58.6	51.8	-0.3	156	0.19
	Chandigarh	235	0	3.6	3.5	0.1	28	0.00
Railways NR ISTS	198	0	3.8	3.7	0.1	30	0.00	
WR	Chhattisgarh	5739	0	128.4	64.5	-0.4	280	0.00
	Gujarat	18575	0	380.4	166.5	-4.7	587	0.00
	MP	12287	0	226.6	133.7	-4.6	404	0.00
	Maharashtra	27364	0	582.5	201.2	-3.3	693	0.00
	Goa	688	0	12.9	14.2	-1.6	49	0.00
	DNHDDPDCL	1204	0	28.0	28.1	-0.1	36	0.00
	AMNSIL	851	0	18.6	7.1	0.3	319	0.00
	BALCO	521	0	12.4	12.5	-0.1	9	0.00
SR	Andhra Pradesh	12970	0	227.1	93.5	-1.8	700	0.00
	Telangana	15089	0	293.2	178.9	0.6	751	0.00
	Karnataka	16618	0	323.1	169.2	1.5	800	0.00
	Kerala	4873	0	96.3	75.8	1.3	225	0.00
	Tamil Nadu	17993	0	377.9	226.2	1.0	811	0.00
	Puducherry	431	0	9.4	9.2	-0.3	23	0.00
ER	Bihar	4456	0	81.8	70.7	-1.0	386	0.24
	DVC	3188	0	69.1	-37.5	2.4	341	0.00
	Jharkhand	1567	118	32.0	20.7	-1.2	245	0.12
	Odisha	5560	0	117.6	47.7	-1.2	381	0.00
	West Bengal	7492	0	150.2	23.0	-2.2	369	0.00
	Sikkim	112	0	1.6	1.7	-0.1	16	0.00
	Railways ER ISTS	10	0	0.1	0.1	0.0	6	0.00
NER	Arunachal Pradesh	169	0	3.1	3.1	-0.2	70	0.00
	Assam	1566	0	28.2	22.1	0.7	163	0.00
	Manipur	224	0	3.0	3.2	-0.2	30	0.00
	Meghalaya	366	0	6.3	5.4	-0.1	256	0.00
	Mizoram	127	0	2.4	1.7	0.3	16	0.00
	Nagaland	144	0	2.5	2.4	0.0	13	0.00
	Tripura	224	0	3.9	4.0	-0.2	26	0.00

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

	Bhutan	Nepal	Bangladesh	Godda -> Bangladesh
Actual (MU)	-5.5	-13.2	-23.1	-25.4
Day Peak (MW)	-643.0	-596.0	-1066.0	-1369.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	74.2	-242.8	312.6	-150.1	6.1	0.0
Actual(MU)	61.7	-252.2	348.0	-165.6	7.7	-0.4
O/D/U/D(MU)	-12.5	-9.4	35.4	-15.5	1.6	-0.4

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL	% Share
Central Sector	7008	8284	3868	3314	408	22881	47
State Sector	8431	9912	4831	2957	99	26229	53
Total	15438	18195	8699	6270	507	49109	100

G. Sourcewise generation (Gross) (MU)

	NR	WR	SR	ER	NER	All India	% Share
Coal	647	1480	694	678	12	3511	76
Lignite	23	13	66	0	0	102	2
Hydro	144	24	49	14	10	241	5
Nuclear	31	52	52	0	0	135	3
Gas, Naptha & Diesel	5	37	6	0	25	74	2
RES (Wind, Solar, Biomass & Others)	202	154	199	5	1	561	12
Total	1052	1761	1067	697	48	4624	100

Share of RES in total generation (%)	19.17	8.76	18.69	0.71	1.09	12.13
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	35.90	13.11	28.18	2.68	22.10	20.29

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.024
Based on State Max Demands	1.048

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

	Max Demand Met(MW)	Time	Shortage(MW)
Solar hr	206560	10:28	0
Non-Solar hr	190731	19:00	250

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: 05-Mar-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	48	0.0	1.3	-1.3
3	765 kV	GAYA-VARANASI	2	299	888	0.0	9.8	-9.8
4	765 kV	SASARAM-FATEHPUR	1	0	588	0.0	9.2	-9.2
5	765 kV	GAYA-BALIA	1	0	475	0.0	5.2	-5.2
6	400 kV	PUSAULI-VARANASI	1	19	70	0.0	0.7	-0.7
7	400 kV	PUSAULI-ALLAHABAD	1	22	67	0.0	0.5	-0.5
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	289	621	0.0	2.9	-2.9
9	400 kV	PATNA-BALIA	2	0	592	0.0	11.6	-11.6
10	400 kV	NAUBATPUR-BALIA	2	0	384	0.0	3.5	-3.5
11	400 kV	BIHARSHARIFF-BALIA	2	287	172	0.1	0.0	0.1
12	400 kV	MOTIHARI-GORAKHPUR	2	34	531	0.0	7.0	-7.0
13	400 kV	BIHARSHARIFF-VARANASI	2	104	394	0.0	4.4	-4.4
14	220 kV	SAHUPURI-KARAMNANA	1	3	105	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	0.4	0.0	0.4
17	132 kV	KARMANASA-SAHUPURI	1	0	0	0.0	0.0	0.0
18	132 kV	KARMANASA-CHANDAULI	1	0	0	0.0	0.0	0.0
ER-NR						0.5	57.3	-56.9
Import/Export of ER (With WR)								
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	928	0	11.5	0.0	11.5
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	0	1696	0.0	23.1	-23.1
3	765 kV	JHARSUGUDA-DURG	2	0	700	0.0	13.8	-13.8
4	400 kV	JHARSUGUDA-RAIGARH	4	0	544	0.0	9.4	-9.4
5	400 kV	RANCHI-SIPAT	2	0	463	0.0	6.4	-6.4
6	220 kV	BUDHIPADAR-RAIGARH	1	0	161	0.0	2.9	-2.9
7	220 kV	BUDHIPADAR-KORBA	2	119	27	0.9	0.0	0.9
ER-WR						12.4	55.6	-43.2
Import/Export of ER (With SR)								
1	HVDC	JEYPORE-GAZUWAKA B/B	2	2780	639	0.0	13.4	-13.4
2	HVDC	TALCHER-KOLAR BIPOLE	2	0	1984	0.0	46.7	-46.7
3	765 kV	ANGUL-SRIKAKULAM	2	0	3078	0.0	61.3	-61.3
4	400 kV	TALCHER-I/C	2	254	301	0.0	2.3	-2.3
5	220 kV	BALIMELA-UPPER-SILERRU	1	0	0	0.0	0.0	0.0
ER-SR						0.0	121.4	-121.4
Import/Export of ER (With NER)								
1	400 kV	BINAGURI-BONGAIGAON	2	1	7	1.9	0.1	1.8
2	400 kV	ALIPURDUAR-BONGAIGAON	2	694	0	7.9	0.0	7.9
3	220 kV	ALIPURDUAR-SALAKATI	2	62	12	0.5	0.0	0.5
ER-NER						10.2	0.1	10.2
Import/Export of NER (With NR)								
1	HVDC	BISWANATH CHARIALI-AGRA	2	704	0	17.1	0.0	17.1
NER-NR						17.1	0.0	17.1
Import/Export of WR (With NR)								
1	HVDC	CHAMPA-KIRUKSHETRA	2	0	1497	0.0	35.0	-35.0
2	HVDC	VINDHYACHAL B/B	-	427	0	12.1	0.0	12.1
3	HVDC	MUNDRA-MOHINDERGARH	2	0	1455	0.0	10.2	-10.2
4	765 kV	GWALIOR-AGRA	2	383	1499	1.6	7.3	-5.8
5	765 kV	GWALIOR-PHAGI	2	1091	1517	4.2	15.7	-11.5
6	765 kV	JABALPUR-ORAI	2	412	707	0.0	1.3	-1.3
7	765 kV	GWALIOR-ORAI	1	698	0	9.6	0.0	9.6
8	765 kV	SATNA-ORAI	1	0	1082	0.0	18.3	-18.3
9	765 kV	BANASKANTHA-CHITORGARH	2	1588	195	20.3	0.1	20.2
10	765 kV	VINDHYACHAL-VARANASI	2	0	1740	0.0	21.0	-21.0
11	400 kV	ZERDA-KANKROLI	1	335	46	4.2	0.0	4.1
12	400 kV	ZERDA -BHINMAL	1	739	169	7.3	0.2	7.0
13	400 kV	VINDHYACHAL -RIHAND	1	968	0	20.1	0.0	20.1
14	400 kV	RAPP-SHUJALPUR	2	809	277	6.8	0.8	6.0
15	220 kV	BHANPURA-RANPUR	1	119	130	0.5	1.3	-0.9
16	220 kV	BHANPURA-MORAK	1	0	30	1.2	0.9	0.3
17	220 kV	MEHGAON-AURAIYA	1	91	3	1.2	0.0	1.2
18	220 kV	MALANPUR-AURAIYA	1	66	18	0.8	0.0	0.8
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						89.9	112.3	-22.4
Import/Export of WR (With SR)								
1	HVDC	BHADRAWATI B/B	-	0	1014	0.0	20.8	-20.8
2	HVDC	RAIGARH-PUGALUR	2	0	6023	0.0	120.0	-120.0
3	765 kV	SOLAPUR-RAICHUR	2	0	2106	0.0	29.0	-29.0
4	765 kV	WARDHA-NIZAMABAD	2	0	3353	0.0	57.9	-57.9
5	765 kV	WARORA-WARANGAL(NEW)	2	0	3206	0.0	59.3	-59.3
6	400 kV	KOLHAPUR-KUDGI	2	965	0	12.0	0.0	12.0
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	106	2.1	0.0	2.1
WR-SR						14.1	287.0	-272.9

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 MANGDECHHU HEP 4*180MW)	-228	54	-76	-1.82
	ER	400kV TALA-BINAGURI 1,2,4 (& 400kV MALBASE - BINAGURI) i.e. BINAGURI RECEIPT (from TALA HEP 6*170MW)	-263	114	-23	-0.56
	ER	220kV CHUKHA-BIRPARA 1&2 (& 220kV MALBASE - BIRPARA) i.e. BIRPARA RECEIPT (from CHUKHA HEP 4*84MW)	-249	-40	-126	-3.03
	NER	132kV GELEPHU-SALAKATI	-25	-3	-14	-0.33
	NER	132kV MOTANGA-RANGIA	28	-2	10	0.23
NEPAL	NR	NEPAL IMPORT (FROM UP)	-72	0	-62	-1.48
	NR	132kV MAHENDRANAGAR-TANAKPUR(NHPC)	-72	0	-59	-1.41
	ER	NEPAL IMPORT (FROM BIHAR)	-143	0	-68	-1.64
	ER	400kV DHALKEBAR-MUZAFFARPUR 1&2	-453	-134	-360	-8.63
BANGLADESH	ER	BHERAMARA B/B HVDC (B'DESH)	-936	-643	-846	-20.31
	ER (Isolated from Indian Grid)	400kV GODDA_TPS-RAHANPUR (B'DESH) D/C	-1369	-807	-1059	-25.42
	NER	132kV COMILLA-SURAJMANI NAGAR 1&2	-130	0	-116	-2.78

