



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: 05th April 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 04.04.2023.

महोदय/Dear Sir,

आई०ई०जी०सी०-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 04-अप्रैल-2023 की अखिल भारतीय प्रणाली की दैनिक ग्रीड 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 April 2023, is available at the NLDC website.

धन्यवाद,

Report for previous day

Date of Reporting: 05-Apr-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 20:00 hrs; from RLDCs)	46974	59000	47566	23214	2398	179152
Peak Shortage (MW)	0	0	0	229	69	298
Energy Met (MU)	960	1423	1252	501	45	4181
Hydro Gen (MU)	126	43	70	41	11	291
Wind Gen (MU)	13	90	29	-	-	132
Solar Gen (MU)*	140.40	64.86	117.53	2.57	0.60	326
Energy Shortage (MU)	1.84	0.00	0.00	2.06	1.54	5.44
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	50179	64099	60798	23809	2596	189684
Time Of Maximum Demand Met (From NLDC SCADA)	19:32	11:29	12:30	18:50	18:34	09:52

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	0.049	0.00	0.60	11.40	12.00	72.38	15.62

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	6011	0	121.8	45.1	-0.9	238	1.15
	Haryana	6095	0	118.1	84.5	-0.2	140	0.00
	Rajasthan	10565	0	210.4	42.5	-5.7	15	0.00
	Delhi	3550	0	70.6	69.7	-1.5	106	0.00
	UP	17216	17	307.3	96.3	0.5	528	0.20
	Uttarakhand	1932	0	38.1	24.1	0.3	90	0.18
	HP	1690	0	31.2	18.3	0.0	51	0.31
	J&K(UT) & Ladakh(UT)	2856	0	56.5	47.9	-0.9	167	0.00
	Chandigarh	180	0	3.2	3.1	0.1	52	0.00
	Railways NR ISTS	158	0	3.3	3.1	0.1	18	0.00
WR	Chhattisgarh	5119	0	119.2	65.1	-0.5	219	0.00
	Gujarat	18841	0	415.7	200.0	2.4	968	0.00
	MP	11473	0	235.8	126.5	-3.9	392	0.00
	Maharashtra	27708	0	580.9	190.9	1.2	866	0.00
	Goa	673	0	13.0	13.4	-0.8	50	0.00
	DNHDDPDCL	1233	0	28.4	29.0	-0.6	27	0.00
	AMNSIL	773	0	17.3	5.4	0.2	276	0.00
	BALCO	514	0	12.3	12.2	0.1	6	0.00
	Andhra Pradesh	11076	0	225.1	87.7	-0.4	667	0.00
	Telangana	13755	0	271.7	145.4	-1.1	571	0.00
SR	Karnataka	14850	0	288.6	136.2	1.3	1415	0.00
	Kerala	4034	0	86.5	73.1	-0.1	194	0.00
	Tamil Nadu	17749	0	370.4	219.8	-2.5	486	0.00
	Puducherry	428	0	9.7	9.6	-0.6	18	0.00
	Bihar	5614	0	103.9	92.3	-0.2	239	0.51
ER	DVC	3542	0	75.5	-48.9	-0.7	215	0.00
	Jharkhand	1345	0	31.1	22.6	0.2	101	1.55
	Odisha	5553	0	106.3	41.4	-1.2	294	0.00
	West Bengal	8505	0	183.1	42.6	-1.8	211	0.00
	Sikkim	102	0	1.6	1.7	-0.1	44	0.00
NER	Arunachal Pradesh	159	0	2.8	2.5	0.2	50	0.00
	Assam	1536	0	26.1	20.4	-0.4	84	0.00
	Manipur	198	0	2.8	2.8	0.0	26	0.00
	Meghalaya	317	43	4.9	3.3	0.1	43	1.54
	Mizoram	118	0	1.8	1.6	-0.2	7	0.00
	Nagaland	124	0	2.1	2.1	0.0	13	0.00
	Tripura	198	0	4.1	3.7	0.2	40	0.00

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

	Bhutan	Nepal	Bangladesh	Godda -> Bangladesh
Actual (MU)	0.1	-10.6	-24.8	-15.9
Day Peak (MW)	-222.1	-465.8	-1075.0	-719.7

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	76.4	-160.1	235.5	-145.6	-6.2	0.0
Actual(MU)	57.0	-145.4	244.6	-158.1	-6.1	-8.0
O/D/U/D(MU)	-19.4	14.7	9.1	-12.5	0.1	-8.0

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL	% Share
Central Sector	5537	12261	3238	1175	534	22744	43
State Sector	12295	11966	3651	1490	341	29742	57
Total	17832	24226	6889	2665	874	52486	100

G. Sourcewise generation (Gross) (MU)

	NR	WR	SR	ER	NER	All India	% Share
Coal	609	1410	698	706	16	3437	76
Lignite	24	22	71	0	0	117	3
Hydro	126	43	70	41	11	291	6
Nuclear	30	34	70	0	0	134	3
Gas, Naptha & Diesel	8	16	7	0	31	62	1
RES (Wind, Solar, Biomass & Others)	173	156	174	3	1	507	11
Total	971	1680	1089	749	58	4548	100

Share of RES in total generation (%)	17.85	9.29	15.95	0.42	1.03	11.15
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	33.97	13.86	28.80	5.83	19.73	20.49

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.062
Based on State Max Demands	1.085

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

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

Executive Director-NLDC

INTER-REGIONAL EXCHANGES

Import=(+ve)/Export=(-ve) for NET (MU)
Date of Reporting: 05-Apr-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	7.4	-7.4	
3	765 kV	GAYA-VARANASI	2	123	750	0.0	11.6	-11.6	
4	765 kV	SASARAM-FAITEHPUR	1	32	425	0.0	7.4	-7.4	
5	765 kV	GAYA-BALIA	1	0	563	0.0	7.3	-7.3	
6	400 kV	PUSAULI-VARANASI	1	0	209	0.0	3.8	-3.8	
7	400 kV	PUSAULI-ALAHABAD	1	0	195	0.0	3.4	-3.4	
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	291	609	0.0	5.7	-5.7	
9	400 kV	PATNA-BALIA	2	0	490	0.0	7.9	-7.9	
10	400 kV	NAIBATTI-BALIA	2	3	519	0.0	8.0	-8.0	
11	400 kV	BIHARSHARIFE-BALIA	2	297	184	0.0	0.0	0.0	
12	400 kV	MOTIHARI-GORAKHPUR	2	60	460	0.0	6.5	-6.5	
13	400 kV	BIHARSHARIFE-VARANASI	2	114	312	0.0	3.4	-3.4	
14	220 kV	SAHUPUR-KARMANASA	1	0	179	0.0	2.7	-2.7	
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	0	31	0.0	0.0	0.0	
18	132 kV	KARMANASA-CHANDAULI	1	0	0	0.0	0.0	0.0	
						ER-NR	0.5	74.9	-74.4
Import/Export of ER (With WR)									
1	765 kV	JHARSUGUDA-DHARAMJIAGARH	4	1244	327	12.9	0.0	12.9	
2	765 kV	NEW RANCHI-DHARAMJIAGARH	2	157	937	0.0	9.2	-9.2	
3	765 kV	JHARSUGUDA-DURG	2	0	958	0.0	17.2	-17.2	
4	400 kV	JHARSUGUDA-RAIGARH	4	0	569	0.0	8.9	-8.9	
5	400 kV	RANCHI-SIPAT	2	0	262	0.0	3.3	-3.3	
6	220 kV	BUDHIPADAR-RAIGARH	1	0	132	0.0	2.2	-2.2	
7	220 kV	BUDHIPADAR-KORBA	2	54	38	0.1	0.0	0.1	
						ER-WR	13.0	40.8	-27.7
Import/Export of ER (With SR)									
1	HVDC	JEYPORE-GAZI WAKA B/B	2	0	549	0.0	10.0	-10.0	
2	HVDC	TALCHER-KOLAR BIPPLE	2	0	1988	0.0	47.9	-47.9	
3	765 kV	ANGUL-SRIKAKULAM	2	0	2953	0.0	55.9	-55.9	
4	400 kV	TALCHER-I/C	2	0	467	0.0	3.7	-3.7	
5	220 kV	BALIMELA-UPPER-SILERRU	1	0	0	0.0	0.0	0.0	
						ER-SR	0.0	113.8	-113.8
Import/Export of ER (With NER)									
1	400 kV	BINAGURI-BONGAIGAOON	2	235	100	1.8	0.4	1.4	
2	400 kV	ALIPURDUAR-BONGAIGAOON	2	405	63	3.8	0.0	3.8	
3	220 kV	ALIPURDUAR-SALAKATI	2	84	12	0.8	0.0	0.8	
						ER-NER	6.4	0.4	6.0
Import/Export of <null> (With <null>)									
No Records Found									
						NER-NR	0.0	0.0	0.0
Import/Export of WR (With NR)									
1	HVDC	CHAMPA-KURUSHKETRA	2	0	796	0.0	19.0	-19.0	
2	HVDC	VINDHYACHAL B/B	2	447	0	12.2	0.0	12.2	
3	HVDC	MUNDRAMOHINDERGARH	2	0	1499	0.0	26.9	-26.9	
4	765 kV	GWALIOR-AGRA	2	0	2143	0.0	24.8	-24.8	
5	765 kV	GWALIOR-PHAGI	2	606	1865	1.6	23.5	-22.0	
6	765 kV	JABALPUR-ORAI	2	121	758	0.0	15.2	-15.2	
7	765 kV	GWALIOR-ORAI	1	969	0	16.3	0.0	16.3	
8	765 kV	SATNA-ORAI	1	0	928	0.0	17.1	-17.1	
9	765 kV	BANASKANTHA-CHITORGARH	2	2084	0	32.8	0.0	32.8	
10	765 kV	VINDHYACHAL-VARANASI	2	0	2130	0.0	25.9	-25.9	
11	400 kV	ZERDA-KANKROLI	0	1	387	0.0	6.2	-6.2	
12	400 kV	ZERDA-BHINMAL	0	1	212	0.0	9.1	-9.1	
13	400 kV	VINDHYACHAL-RIHAND	1	975	0	21.6	0.0	21.6	
14	400 kV	RAPESHUJALPUR	2	693	411	4.7	2.4	2.3	
15	220 kV	BHANPUR-RANPUR	1	0	0	0.0	0.0	0.0	
16	220 kV	BHANPUR-MORAK	1	0	39	0.0	0.0	0.0	
17	220 kV	MEHGAON-AURAIYA	1	107	0	0.8	0.0	0.8	
18	220 kV	MALANPUR-AURAIYA	1	90	5	1.1	0.0	1.1	
19	132 kV	GWALIOR-SAWAI MADHOPUR	1	0	0	0.0	0.0	0.0	
20	132 kV	RAIGHATE-LALITPUR	2	0	0	0.0	0.0	0.0	
						WR-NR	133.1	128.0	5.1
Import/Export of WR (With SR)									
1	HVDC	BHADRAWATI B/B	-	0	1019	0.0	18.4	-18.4	
2	HVDC	BAIGARH-PUGALUR	2	0	6625	0.0	116.2	-116.2	
3	765 kV	SOLAPUR-RAICHUR	2	627	1415	0.8	14.4	-13.7	
4	765 kV	WARDHA-NIGAMABAD	2	0	3022	0.0	51.4	-51.4	
5	400 kV	KOLHAPUR-SUDCI	2	1225	0	19.3	0.0	19.3	
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	NELDEM-AMBEWADI	1	0	123	2.8	0.0	2.8	
						WR-SR	22.3	200.5	-178.2
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 Lc. ALIPURDUAR RECEIPT (from MANGDECHHU HEP 4*180MW)	-146	43	-26	-0.62			
	ER	400kV TALA-BINAGURI 1,2,3 (& 400kV MALBASE - BINAGURI) Lc. BINAGURI RECEIPT (from TALA HEP 6*170MW)	183	-26	119	2.85			
	ER	220kV CHUKHA-BIRPARA 1&2 (& 220kV MALBASE - BIRPARA) Lc. BIRPARA RECEIPT (from CHUKHA HEP 4*84MW)	-149	-61	-98	-2.35			
	NER	132kV GELEPHU-SALAKATI	17	0	8	0.18			
NEPAL	NR	132kV MAHENDRANAGAR-TANAKPUR(NHPC)	-60	0	-48	-1.15			
	ER	NEPAL IMPORT (FROM BIHAR)	-96	-79	-87	-2.08			
BANGLADESH	ER	400kV DHALKEBAR-MUZAFFARPUR 1&2	-310	-173	-306	-7.34			
	ER	BHERAMARA B/B HVDC (B'DESH)	-913	-770	-889	-21.34			
	ER (Isolated from Indian Grid)	400kV GODDA_TPS-RAHANPUR (B'DESH) D/C	-720	-475	-663	-15.92			
	NER	132kV COMILLA-SURAJMANI NAGAR 1&2	-162	0	-143	-3.44			