



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: 2nd 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 01.04.2023.

महोदय/Dear Sir,

आई०ई०जी०सी०-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 01-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 01st April 2023, is available at the NLDC website.

धन्यवाद,

Report for previous day

Date of Reporting: 02-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)	42504	55102	47759	20026	2437	167828
Peak Shortage (MW)	0	0	0	0	23	23
Energy Met (MU)	892	1326	1261	411	45	3935
Hydro Gen (MU)	116	20	61	27	7	232
Wind Gen (MU)	15	90	40	-	-	145
Solar Gen (MU)*	135.90	65.60	127.37	3.55	0.25	333
Energy Shortage (MU)	1.73	0.00	0.00	0.42	1.10	3.25
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	45142	59789	60780	20186	2557	180284
Time Of Maximum Demand Met (From NLDC SCADA)	19:29	11:46	11:57	21:09	18:45	10:38

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	0.066	0.00	0.52	8.67	9.19	64.46	26.35

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	5839	0	116.9	59.6	-0.8	222	1.18
	Haryana	5124	0	108.3	73.4	-1.8	132	0.00
	Rajasthan	9671	0	198.1	46.9	-4.0	108	0.00
	Delhi	3411	0	66.3	65.2	-1.4	114	0.00
	UP	16325	0	273.9	84.2	-0.4	446	0.00
	Uttarakhand	1772	0	35.5	22.9	-0.3	173	0.15
	HP	1731	0	31.5	20.3	-0.4	57	0.00
	J&K(UT) & Ladakh(UT)	2764	0	55.0	47.9	-0.9	221	0.40
	Chandigarh	180	0	3.2	3.4	-0.2	22	0.00
	Railways NR ISTS	158	0	3.3	3.2	0.0	13	0.00
WR	Chhattisgarh	4568	0	101.0	48.8	-2.2	94	0.00
	Gujarat	17682	0	389.2	190.0	-1.6	668	0.00
	MP	10404	0	219.8	125.8	-1.6	472	0.00
	Maharashtra	25532	0	545.3	189.7	-0.7	679	0.00
	Goa	655	0	14.2	13.2	0.4	50	0.00
	DNHDDPDCL	1132	0	26.2	26.9	-0.7	18	0.00
	AMNSIL	805	0	18.2	5.8	0.3	258	0.00
	BALCO	512	0	12.2	12.4	-0.2	1	0.00
	Andhra Pradesh	10979	0	220.4	77.3	-0.3	383	0.00
	Telangana	14150	0	287.7	155.5	0.5	617	0.00
SR	Karnataka	15185	0	288.9	131.1	-0.5	1162	0.00
	Kerala	4243	0	89.6	74.8	-0.5	232	0.00
	Tamil Nadu	17249	0	365.5	221.2	-2.3	510	0.00
	Puducherry	421	0	9.1	10.2	-1.2	12	0.00
	Bihar	4794	69	86.9	75.5	0.2	378	0.42
ER	DVC	3195	0	66.6	45.0	-0.9	291	0.00
	Jharkhand	1288	0	24.8	19.2	-3.0	59	0.00
	Odisha	5152	0	97.6	38.0	-2.8	270	0.00
	West Bengal	6474	0	133.4	11.0	-3.3	159	0.00
	Sikkim	89	0	1.5	1.7	-0.2	47	0.00
NER	Arunachal Pradesh	152	0	2.3	2.2	0.0	49	0.00
	Assam	1468	0	26.9	20.9	0.2	141	0.00
	Manipur	191	0	2.7	2.7	0.0	24	0.00
	Meghalaya	341	23	5.6	3.0	1.0	77	1.10
	Mizoram	124	0	1.8	1.7	-0.2	5	0.00
	Nagaland	127	0	1.8	1.9	-0.1	35	0.00
	Tripura	229	0	3.7	3.2	-0.4	72	0.00

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

	Bhutan	Nepal	Bangladesh	Godda -> Bangladesh
Actual (MU)	-3.3	-4.4	-21.0	-17.2
Day Peak (MW)	-308.0	-238.3	-1058.0	-774.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	77.5	-159.9	255.6	-170.6	-2.5	0.0
Actual(MU)	48.8	-144.4	277.4	-187.7	1.9	-4.1
O/D/U/D(MU)	-28.7	15.5	21.8	-17.1	4.4	-4.1

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL	% Share
Central Sector	5607	13631	3028	980	425	23671	43
State Sector	12960	12318	3691	2500	297	31766	57
Total	18567	25949	6719	3480	722	55436	100

G. Sourcewise generation (Gross) (MU)

	NR	WR	SR	ER	NER	All India	% Share
Coal	553	1339	659	654	11	3216	75
Lignite	27	21	70	0	0	118	3
Hydro	116	20	61	27	7	232	5
Nuclear	31	34	74	0	0	139	3
Gas, Naptha & Diesel	5	15	5	0	31	56	1
RES (Wind, Solar, Biomass & Others)	175	157	195	4	0	532	12
Total	906	1586	1064	686	49	4291	100

Share of RES in total generation (%)	19.33	9.92	18.32	0.60	0.51	12.40
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	35.54	13.33	31.07	4.60	14.18	21.03

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.045
Based on State Max Demands	1.076

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: 02-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	6.9	-6.9	
3	765 kV	GAYA-VARANASI	2	445	921	0.0	9.5	-9.5	
4	765 kV	SASARAM-FAITEHPUR	1	154	519	0.0	5.8	-5.8	
5	765 kV	GAYA-BALIA	1	0	499	0.0	7.6	-7.6	
6	400 kV	PUSAULI-VARANASI	1	0	235	0.0	3.9	-3.9	
7	400 kV	PUSAULI-ALAHABAD	1	0	184	0.0	3.0	-3.0	
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	267	717	0.0	6.4	-6.4	
9	400 kV	PATNA-BALIA	2	15	554	0.0	7.7	-7.7	
10	400 kV	NAIBATTI-BALIA	2	44	586	0.0	7.9	-7.9	
11	400 kV	BIHARSHARIFE-BALIA	2	254	303	0.0	1.2	-1.2	
12	400 kV	MOTIHARI-GORAKHPUR	2	77	466	0.0	5.9	-5.9	
13	400 kV	BIHARSHARIFE-VARANASI	2	232	375	0.0	2.5	-2.5	
14	220 kV	SAHUPUR-KARMANASA	1	0	154	0.0	1.9	-1.9	
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	26	0.0	0.0	0.0	
18	132 kV	KARMANASA-CHANDAUJI	1	0	0	0.0	0.0	0.0	
						ER-NR	0.5	70.2	-69.7
Import/Export of ER (With WR)									
1	765 kV	JHARSHUGUDA-DHARAMJIAGARH	4	1380	251	10.5	0.0	10.5	
2	765 kV	NEW RANCHI-DHARAMJIAGARH	2	0	1783	0.0	19.8	-19.8	
3	765 kV	JHARSHUGUDA-DURG	2	0	1289	0.0	22.2	-22.2	
4	400 kV	JHARSHUGUDA-RAIGARH	4	0	575	0.0	8.1	-8.1	
5	400 kV	RANCHI-SIPAT	2	0	494	0.0	5.6	-5.6	
6	220 kV	BUDDHIPADAR-RAIGARH	1	0	98	0.0	1.4	-1.4	
7	220 kV	BUDDHIPADAR-KORBA	2	110	28	1.0	0.0	1.0	
						ER-WR	11.5	57.1	-45.6
Import/Export of ER (With SR)									
1	HVDC	JEYPORE-GAZIWAKA B/B	2	0	550	0.0	12.6	-12.6	
2	HVDC	TALCHER-KOLAR BIPPLE	2	0	1998	0.0	45.1	-45.1	
3	765 kV	ANGUL-SRIKAKULAM	2	0	3115	0.0	69.8	-69.8	
4	400 kV	TALCHER-I/C	2	211	975	0.0	3.8	-3.8	
5	220 kV	BALIMELA-UPPER-SILERRU	1	0	0	0.0	0.0	0.0	
						ER-SR	0.0	118.6	-118.6
Import/Export of ER (With NER)									
1	400 kV	BINAGURI-BONGAIGAOON	2	120	217	0.3	2.0	-1.7	
2	400 kV	ALIPURDUAR-BONGAIGAOON	2	267	187	0.0	0.6	-0.6	
3	220 kV	ALIPURDUAR-SALAKATI	2	42	19	0.0	0.0	0.0	
						ER-NER	0.3	2.5	-2.2
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-KURUKSHETRA	2	0	1995	0.0	37.3	-37.3	
2	HVDC	VINDHYACHAL B/B	-	444	2	10.3	0.0	10.3	
3	HVDC	MUNDRAMOHINDERGARH	2	0	1001	0.0	23.3	-23.3	
4	765 kV	GWALIOR-AGRA	2	125	1622	0.1	14.8	-14.7	
5	765 kV	GWALIOR-PHAGI	2	921	1706	3.4	22.4	-19.0	
6	765 kV	JABALPUR-ORAI	2	294	577	0.0	5.9	-5.9	
7	765 kV	GWALIOR-ORAI	1	873	0	14.5	0.0	14.5	
8	765 kV	SATNA-ORAI	1	0	894	0.0	16.9	-16.9	
9	765 kV	BANASKANTHA-CHITORGARH	2	2169	0	31.8	0.0	31.8	
10	765 kV	VINDHYACHAL-VARANASI	2	391	1725	0.0	19.1	-19.1	
11	400 kV	ZERDA-KANKROLI	1	393	0	6.4	0.0	6.4	
12	400 kV	ZERDA-BHINMAL	1	237	0	10.2	0.0	10.2	
13	400 kV	VINDHYACHAL-RIHAND	1	957	0	21.5	0.0	21.5	
14	400 kV	RAPESHUJALPUR	2	823	226	6.1	0.8	5.3	
15	220 kV	BHANPURA-RANPUR	1	0	0	0.0	0.0	0.0	
16	220 kV	BHANPURA-MORAK	1	0	20	0.0	0.0	0.0	
17	220 kV	MEHGAON-AURAIYA	1	111	0	1.1	0.0	1.1	
18	220 kV	MAJANPUR-AURAIYA	1	96	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	RAIGHATE-LALITPUR	2	0	0	0.0	0.0	0.0	
						WR-NR	130.0	117.2	12.8
Import/Export of WR (With SR)									
1	HVDC	BHADRAWATI B/B	-	0	1016	0.0	17.4	-17.4	
2	HVDC	BAIGARH-PUGALUR	2	0	6028	0.0	126.9	-126.9	
3	765 kV	SOLAPUR-RAICHUR	2	344	1556	0.0	18.9	-18.8	
4	765 kV	WARDHA-NIGAMABAD	2	0	3288	0.0	60.2	-60.2	
5	400 kV	KOLHAPUR-SUDCI	2	1073	0	18.4	0.0	18.4	
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	121	2.3	0.0	-2.3	
						WR-SR	20.8	223.4	-202.6
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)	-158	95	-44	-1.05			
	ER	600kV TALA-BINAGURI 1,2,3 (& 400kV MALBASE - BINAGURI) I.e. BINAGURI RECEIPT (from TALA HEP 6*170MW)	206	-108	37	0.89			
	ER	220kV CHUKHA-BIRPARA 1&2 (& 220kV MALBASE - BIRPARA) I.e. BIRPARA RECEIPT (from CHUKHA HEP 4*84MW)	-204	-83	-136	-3.27			
	NER	132kV GELEPHU-SALAKATI	15	0	6	0.14			
NEPAL	NR	132kV MAHENDRANAGAR-TANAKPUR(NHPC)	-43	0	-22	-0.54			
	ER	NEPAL IMPORT (FROM BIHAR)	-136	-45	-108	-2.59			
BANGLADESH	ER	400kV DHALKEBAR-MUZAFFARPUR 1&2	-59	0	-52	-1.24			
	ER	BHERAMARA B/B HVDC (B'DESH)	-934	-299	-768	-18.43			
	ER	400kV GODDA, TPS-RAHANPUR (B'DESH) D/C (Isolated from Indian Grid)	-774	-704	-719	-17.25			
	NER	132kV COMILLA-SURAJMANI NAGAR 1&2	-124	0	-107	-2.56			