



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: 3rd 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 02.04.2023.

महोदय/Dear Sir,

आई०ई०जी०सी०-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 02-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 02nd April 2023, is available at the NLDC website.

धन्यवाद,

Report for previous day

Date of Reporting: 03-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)	42813	54661	44519	20946	2230	165169
Peak Shortage (MW)	16	0	0	101	33	150
Energy Met (MU)	886	1326	1187	434	40	3874
Hydro Gen (MU)	119	19	58	29	11	235
Wind Gen (MU)	35	80	47	-	-	162
Solar Gen (MU)*	139.92	67.75	128.45	3.31	0.71	340
Energy Shortage (MU)	1.23	0.49	0.00	0.45	1.13	3.30
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	44928	59392	55930	21113	2370	174691
Time Of Maximum Demand Met (From NLDC SCADA)	19:34	11:43	11:56	20:12	18:38	10:32

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	0.053	0.00	0.41	7.51	7.92	72.14	19.94

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	5591	0	112.9	36.3	-1.3	81	0.12
	Haryana	4878	0	98.2	69.2	-0.9	148	0.00
	Rajasthan	10250	0	200.5	37.1	-9.1	276	0.00
	Delhi	3360	0	64.0	62.9	-1.2	81	0.00
	UP	16242	0	286.8	95.8	-3.8	492	0.00
	Uttarakhand	1746	0	33.6	20.8	-0.1	107	0.00
	HP	1588	0	28.3	16.3	0.0	67	0.10
	J&K(UT) & Ladakh(UT)	2680	0	55.5	47.9	-1.3	110	1.01
	Chandigarh	161	0	2.9	3.0	-0.1	15	0.00
	Railways NR ISTS	155	0	3.2	3.3	0.0	33	0.00
WR	Chhattisgarh	4862	0	111.3	57.7	-1.3	245	0.00
	Gujarat	16934	0	379.6	180.4	-0.8	618	0.00
	MP	10825	0	226.1	133.1	-3.1	417	0.00
	Maharashtra	25611	0	540.7	184.9	0.7	919	0.00
	Goa	607	0	11.4	11.8	-0.9	35	0.49
	DNHDDPDCL	1111	0	25.9	26.2	-0.3	26	0.00
	AMNSIL	854	0	18.4	5.7	0.6	251	0.00
	BALCO	514	0	12.3	12.4	-0.1	4	0.00
	Andhra Pradesh	10824	0	211.5	76.6	-1.4	382	0.00
	Telangana	13590	0	279.1	147.2	2.2	670	0.00
SR	Karnataka	14268	0	271.0	124.6	-3.0	865	0.00
	Kerala	4111	0	82.6	68.7	-0.2	149	0.00
	Tamil Nadu	14905	0	333.9	199.8	-0.9	797	0.00
	Puducherry	393	0	9.2	9.3	-0.7	17	0.00
	Bihar	4906	0	93.2	85.1	-3.1	306	0.15
ER	DVC	3370	0	70.8	-42.2	-0.2	426	0.00
	Jharkhand	1308	0	28.8	21.2	-0.9	102	0.30
	Odisha	5697	0	109.4	50.1	-2.9	345	0.00
	West Bengal	6483	0	131.1	12.4	-1.9	322	0.00
	Sikkim	77	0	1.2	1.3	-0.1	39	0.00
NER	Arunachal Pradesh	134	0	2.3	2.8	-0.6	30	0.00
	Assam	1327	0	23.2	17.2	-0.2	114	0.00
	Manipur	189	0	2.6	2.8	-0.2	25	0.00
	Meghalaya	329	33	5.2	3.3	0.4	64	1.13
	Mizoram	107	0	1.6	1.6	-0.3	14	0.00
	Nagaland	132	0	1.9	2.1	-0.2	12	0.00
	Tripura	224	0	3.5	3.2	-0.3	32	0.00

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

	Bhutan	Nepal	Bangladesh	Godda -> Bangladesh
Actual (MU)	-2.3	-9.5	-24.6	-17.9
Day Peak (MW)	-203.0	-508.5	-1069.0	-775.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	53.2	-137.3	231.9	-138.9	-8.9	0.0
Actual(MU)	19.2	-109.7	242.4	-150.0	-7.5	-5.6
O/D/U/D(MU)	-34.0	27.5	10.5	-11.0	1.4	-5.6

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL	% Share
Central Sector	5477	13271	3528	1175	425	23876	42
State Sector	12960	11916	5283	2710	333	33201	58
Total	18437	25186	8811	3885	758	57077	100

G. Sourcewise generation (Gross) (MU)

	NR	WR	SR	ER	NER	All India	% Share
Coal	543	1312	621	643	11	3131	74
Lignite	26	21	68	0	0	115	3
Hydro	119	19	58	29	11	235	6
Nuclear	30	34	71	0	0	135	3
Gas, Naptha & Diesel	7	12	5	0	31	55	1
RES (Wind, Solar, Biomass & Others)	200	148	201	4	1	554	13
Total	924	1547	1023	676	54	4224	100

Share of RES in total generation (%)	21.63	9.60	19.61	0.66	1.31	13.11
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	37.75	13.01	32.19	4.89	21.09	21.87

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.052
Based on State Max Demands	1.090

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: 03-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	300	0.0	7.0	-7.0	
3	765 kV	GAYA-VARANASI	2	258	875	0.0	8.9	-8.9	
4	765 kV	SASARAM-FAITEHPUR	1	111	479	0.0	5.0	-5.0	
5	765 kV	GAYA-BALIA	1	0	501	0.0	6.3	-6.3	
6	400 kV	PUSAULI-VARANASI	1	0	220	0.0	4.0	-4.0	
7	400 kV	PUSAULI-ALAHABAD	1	0	176	0.0	2.9	-2.9	
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	294	663	0.0	5.5	-5.5	
9	400 kV	PATNA-BALIA	2	38	565	0.0	6.9	-6.9	
10	400 kV	NAIBATTI-RALIA	2	75	597	0.0	7.2	-7.2	
11	400 kV	BIHARSHARIFE-BALIA	2	281	301	0.0	0.4	-0.4	
12	400 kV	MOTIHARI-GORAKHPUR	2	73	479	0.0	5.7	-5.7	
13	400 kV	BIHARSHARIFE-VARANASI	2	176	358	0.0	2.5	-2.5	
14	220 kV	SAHUPUR-BKARAMANASA	1	0	143	0.0	2.0	-2.0	
15	132 kV	NAGAR-UNTARI-RIHAND	1	0	0	0.0	0.0	0.0	
16	132 kV	GARWAH-RIHAND	1	25	0	0.6	0.0	0.6	
17	132 kV	KARMANASA-SAHUPURI	1	0	35	0.0	0.0	0.0	
18	132 kV	KARMANASA-CHANDAUJI	1	0	0	0.0	0.0	0.0	
						ER-NR	0.6	64.3	-63.8
Import/Export of ER (With WR)									
1	765 kV	JHARSGUDA-DHARAMJIAGARH	4	1403	0	16.8	0.0	16.8	
2	765 kV	NEW RANGHI-DHARAMJIAGARH	2	0	1477	0.0	15.8	-15.8	
3	765 kV	JHARSGUDA-DURG	2	0	815	0.0	17.3	-17.3	
4	400 kV	JHARSGUDA-RAIGARH	4	0	521	0.0	8.1	-8.1	
5	400 kV	RANCHI-SIPAT	2	0	431	0.0	5.2	-5.2	
6	220 kV	BUDHIPADAR-RAIGARH	1	0	128	0.0	2.1	-2.1	
7	220 kV	BUDHIPADAR-KORBA	2	76	24	0.5	0.0	0.5	
						ER-WR	17.3	48.4	-31.1
Import/Export of ER (With SR)									
1	HVDC	JEYPORE-GAZI WAKA B/B	2	0	539	0.0	12.6	-12.6	
2	HVDC	TALCHER-KOLAR BIPPLE	2	0	2467	0.0	39.2	-39.2	
3	765 kV	ANGUL-SRIKAKULAM	2	0	2967	0.0	56.6	-56.6	
4	400 kV	TALCHER-I/C	2	412	736	0.0	0.2	0.2	
5	220 kV	BALIMELA-UPPER-SILERRU	1	0	0	0.0	0.0	0.0	
						ER-SR	0.0	108.5	-108.5
Import/Export of ER (With NER)									
1	400 kV	BINAGURI-BONGAIGAOON	2	229	86	1.9	0.2	1.7	
2	400 kV	ALIPURDUAR-BONGAIGAOON	2	367	0	3.8	0.0	3.8	
3	220 kV	ALIPURDUAR-SALAKATI	2	75	0	0.9	0.0	0.9	
						ER-NER	6.6	0.2	6.4
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	1498	0.0	28.2	-28.2	
2	HVDC	VINDHYACHAL B/B	-	445	0	12.2	0.0	12.2	
3	HVDC	MUNDRA-MOHINDERGARH	2	0	1500	0.0	24.4	-24.4	
4	765 kV	GWALIOR-AGRA	2	408	1566	0.5	15.4	-14.9	
5	765 kV	GWALIOR-PHAGI	2	1254	1436	5.2	18.0	-12.8	
6	765 kV	JABALPUR-ORAI	2	322	536	0.0	7.2	-7.2	
7	765 kV	GWALIOR-ORAI	1	804	16	13.1	0.0	13.1	
8	765 kV	SATNA-ORAI	1	0	860	0.0	15.3	-15.3	
9	765 kV	BANASKANTHA-CHITORGARH	2	2187	0	32.6	0.0	32.6	
10	765 kV	VINDHYACHAL-VARANASI	2	386	1417	0.0	17.6	-17.6	
11	400 kV	ZERDA-KANKROLI	1	399	0	6.7	0.0	6.7	
12	400 kV	ZERDA-BHINMAL	1	852	0	12.5	0.0	12.5	
13	400 kV	VINDHYACHAL-RIHAND	1	963	0	20.2	0.0	20.2	
14	400 kV	RAPESHUJALPUR	2	936	168	7.1	0.4	6.8	
15	220 kV	BHANPUR-BANPUR	1	0	0	0.0	0.0	0.0	
16	220 kV	BHANPUR-MORAK	1	0	30	0.0	0.0	0.0	
17	220 kV	MEHGAON-AURAIYA	1	125	0	1.1	0.0	1.1	
18	220 kV	MAJANPUR-AURAIYA	1	107	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	RAIGHATE-LALITPUR	2	0	0	0.0	0.0	0.0	
						WR-NR	137.0	102.1	34.9
Import/Export of WR (With SR)									
1	HVDC	BHADRAWATI B/B	-	0	1016	0.0	15.2	-15.2	
2	HVDC	BAIGARH-PUGALUR	2	0	6018	0.0	107.1	-107.1	
3	765 kV	SOLAPUR-RAICHUR	2	902	1657	0.6	18.3	-17.7	
4	765 kV	WARDHA-NIGAMABAD	2	0	3168	0.0	55.2	-55.2	
5	400 kV	KOLHAPUR-SUDCI	2	1124	0	17.4	0.0	17.4	
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	118	2.8	0.0	2.8	
						WR-SR	20.2	195.7	-175.6
INTERNATIONAL EXCHANGES									
State	Region	Line Name	Max (MW)	Min (MW)	Avg (MW)	Energy Exchange (MU)	Import(+ve)/Export(-ve)		
BHUTAN	ER	400kV MANGDECHHU-ALIPURDUAR 1,2&3 Lc. ALIPURDUAR RECEIPT (from MANGDECHHU HEP 4*180MW)	-81	25	-29	-0.70			
	ER	400kV TALA-BINAGURI 1,2,3 (& 400kV MALBASE - BINAGURI) Lc. BINAGURI RECEIPT (from TALA HEP 6*170MW)	185	-93	79	1.90			
	ER	220kV CHUKHA-BIRPARA 1&2 (& 220kV MALBASE - BIRPARA) Lc. BIRPARA RECEIPT (from CHUKHA HEP 4*84MW)	-170	-73	-123	-2.94			
	NER	132kV GELEPHU-SALAKATI	-23	-4	-21	-0.50			
NEPAL	NR	132kV MOTANGA-RANGIA	0	0	0	0.00			
	NR	132kV MAHENDRANAGAR-TANAKPUR(NHPC)	-67	0	-48	-1.16			
BANGLADESH	ER	NEPAL IMPORT (FROM BIHAR)	-113	-43	-72	-1.72			
	ER	400kV DHALKEBAR-MUZAFFARPUR 1&2	-329	-203	-276	-6.62			
	ER	BHERAMARA B/B HVDC (B'DESH)	-924	-868	-903	-21.67			
	ER	400kV GODDA_TPS-RAHANPUR (B'DESH) D/C (Isolated from Indian Grid)	-775	-548	-747	-17.94			
	NER	132kV COMILLA-SURAJMANI NAGAR 1&2	-145	0	-123	-2.96			