



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: 24th 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 23.04.2023.

महोदय/Dear Sir,

आई०ई०जी०सी०-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 23-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 23rd April 2023, is available at the NLDC website.

धन्यवाद,

Report for previous day

Date of Reporting: 24-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)	48923	56478	43308	22429	2005	173143
Peak Shortage (MW)	0	0	0	0	34	34
Energy Met (MU)	1075	1362	1112	496	39	4084
Hydro Gen (MU)	173	19	53	43	10	297
Wind Gen (MU)	26	95	38	-	-	159
Solar Gen (MU)*	142.63	63.33	127.91	5.15	0.52	340
Energy Shortage (MU)	0.15	0.00	0.00	0.04	1.26	1.45
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	52938	60088	51567	23084	2043	184407
Time Of Maximum Demand Met (From NLDC SCADA)	00:01	11:38	11:36	00:17	20:24	00:00

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	0.064	0.00	0.15	4.70	4.85	64.24	30.91

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	6302	0	131.9	34.5	-3.4	314	0.00
	Haryana	6711	0	125.4	70.1	-4.4	193	0.00
	Rajasthan	12309	0	247.2	59.6	-8.2	154	0.00
	Delhi	3934	0	81.1	74.4	-2.4	158	0.00
	UP	18053	0	359.0	155.5	-2.7	599	0.00
	Uttarakhand	1841	0	38.9	18.6	0.1	136	0.00
	HP	1496	0	27.9	13.1	0.0	103	0.00
	J&K(UT) & Ladakh(UT)	2629	0	55.7	42.7	-0.4	209	0.15
	Chandigarh	206	0	4.6	4.6	0.0	15	0.00
	Railways NR ISTS	180	0	3.8	3.2	0.6	37	0.00
WR	Chhattisgarh	4489	0	95.7	38.2	-3.1	263	0.00
	Goa	18834	0	416.5	185.5	0.0	0	0.00
	MP	10910	0	229.3	127.3	-6.2	0	0.00
	Maharashtra	24635	0	549.1	200.1	-1.5	172	0.00
	Goa	656	0	13.0	13.7	-1.2	0	0.00
	DNHDDPDCL	1229	0	28.3	28.8	-0.5	0	0.00
	AMNSIL	816	0	17.5	9.0	0.0	0	0.00
	BALCO	520	0	12.4	12.5	-0.1	0	0.00
	Andhra Pradesh	10038	0	211.8	91.8	-2.9	370	0.00
	Telangana	9217	0	189.4	65.4	0.2	857	0.00
SR	Karnataka	13510	0	267.0	104.5	-1.8	696	0.00
	Kerala	4440	0	88.7	71.7	-0.5	172	0.00
	Tamil Nadu	15444	0	344.9	207.1	-3.2	428	0.00
	Puducherry	438	0	10.0	9.7	-0.4	36	0.00
	Bihar	5683	0	111.4	108.6	-6.5	108	0.04
ER	DVC	3490	0	74.4	35.6	-0.5	376	0.00
	Jharkhand	1566	0	32.0	26.4	-3.0	177	0.00
	Odisha	5735	0	106.5	48.3	-2.1	421	0.00
	West Bengal	8284	0	170.8	38.6	-3.8	250	0.00
	Sikkim	68	0	0.9	1.2	-0.2	23	0.00
NER	Arunachal Pradesh	130	0	2.1	2.4	-0.3	43	0.00
	Assam	1174	0	22.1	16.7	-0.6	107	0.00
	Manipur	124	0	2.2	2.3	-0.1	28	0.00
	Meghalaya	289	34	4.9	3.6	0.0	70	1.26
	Mizoram	120	0	1.6	1.3	-0.3	14	0.00
	Nagaland	116	0	1.8	2.0	-0.3	11	0.00
	Tripura	238	0	4.4	4.6	-0.4	46	0.00

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

	Bhutan	Nepal	Bangladesh	Godda -> Bangladesh
Actual (MU)	3.7	-13.9	-25.0	-11.3
Day Peak (MW)	276.0	-718.7	-1093.0	-568.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	79.9	-186.3	177.6	-65.0	-6.2	0.0
Actual(MU)	42.5	-165.6	186.4	-63.9	-4.8	-5.3
O/D/U/D(MU)	-37.4	20.7	8.9	1.1	1.4	-5.3

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL	% Share
Central Sector	3487	9741	4248	1550	425	19451	47
State Sector	6590	10212	3148	2390	247	22586	53
Total	10077	19953	7396	3940	672	42037	100

G. Sourcewise generation (Gross) (MU)

	NR	WR	SR	ER	NER	All India	% Share
Coal	676	1378	658	601	11	3324	75
Lignite	21	16	40	0	0	77	2
Hydro	173	19	53	43	10	297	7
Nuclear	30	36	45	0	0	111	3
Gas, Naptha & Diesel	18	15	6	0	30	68	2
RES (Wind, Solar, Biomass & Others)	188	159	191	6	1	545	12
Total	1106	1623	994	649	51	4423	100

Share of RES in total generation (%)	17.00	9.81	19.25	0.93	1.03	12.32
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	35.39	13.18	29.08	7.48	20.26	21.55

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.029
Based on State Max Demands	1.062

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: 24-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	97	0.0	2.3	-2.3	
3	765 kV	GAYA-VARANASI	2	454	619	0.0	2.2	-2.2	
4	765 kV	SASARAM-FAITEHPUR	1	162	417	0.0	2.9	-2.9	
5	765 kV	GAYA-BALIA	1	9	585	0.0	7.0	-7.0	
6	400 kV	PUSAULI-VARANASI	1	0	106	0.0	1.4	-1.4	
7	400 kV	PUSAULI-ALLAHABAD	1	1	87	0.0	1.1	-1.1	
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	325	704	0.0	4.9	-4.9	
9	400 kV	PATNA-BALIA	2	145	439	0.0	3.6	-3.6	
10	400 kV	NALBATTI-R-BALIA	2	208	459	0.0	3.1	-3.1	
11	400 kV	BIHARSHARIFE-BALIA	2	320	254	0.6	0.0	0.6	
12	400 kV	MOTIHARI-GORAKHPUR	2	137	478	0.0	4.1	-4.1	
13	400 kV	BIHARSHARIFE-VARANASI	2	215	263	0.0	1.1	-1.1	
14	220 kV	SAHUPUR-BKARMANASA	1	1	126	0.0	1.5	-1.5	
15	132 kV	NAGARUNTARI-RIHAND	1	0	0	0.0	0.0	0.0	
16	132 kV	GARWAH-RIHAND	1	25	0	0.4	0.0	0.4	
17	132 kV	KARMANASA-SAHUPURI	1	0	41	0.0	0.0	0.0	
18	132 kV	KARMANASA-CHANDLAULI	1	0	0	0.0	0.0	0.0	
						ER-NR	1.0	35.2	-34.3
Import/Export of ER (With WR)									
1	765 kV	JHARSUGUDA-DHARAMJIAGARH	4	2264	0	29.4	0.0	29.4	
2	765 kV	NEW RANCHI-DHARAMJIAGARH	2	577	464	1.1	0.0	1.1	
3	765 kV	JHARSUGUDA-DURG	2	0	756	0.0	9.3	-9.3	
4	400 kV	JHARSUGUDA-RAIGARH	4	62	441	0.0	4.4	-4.4	
5	400 kV	RANCHI-SIPA	2	101	146	0.0	0.1	-0.1	
6	220 kV	BUDDHIPADAR-RAIGARH	1	0	56	0.0	0.8	-0.8	
7	220 kV	BUDDHIPADAR-KORBA	2	126	0	2.2	0.0	2.2	
						ER-WR	32.8	14.5	18.3
Import/Export of ER (With SR)									
1	HVDC	JEYPORE-GAZIWAKA B/B	2	0	503	0.0	10.0	-10.0	
2	HVDC	TALCHER-KOLAR BIPPLE	2	0	1548	0.0	36.4	-36.4	
3	765 kV	ANGUL-SRIKAKULAM	2	0	2911	0.0	56.2	-56.2	
4	400 kV	TALCHER-I/C	2	678	635	0.0	0.3	-0.3	
5	220 kV	BALIMELA-UPPER-SILERRU	1	0	0	0.0	0.0	0.0	
						ER-SR	0.0	102.6	-102.6
Import/Export of ER (With NER)									
1	400 kV	BINAGURI-BONGAIGAOON	2	239	0	3.1	0.0	3.1	
2	400 kV	ALIPURDUAR-BONGAIGAOON	2	793	0	10.7	0.0	10.7	
3	220 kV	ALIPURDUAR-SALAKATI	2	145	0	2.1	0.0	2.1	
						ER-NER	15.9	0.0	15.9
Import/Export of NER (With NR)									
1	HVDC	BISWANATH CHARIALI-AGRA	2	482	0	11.4	0.0	11.4	
						NER-NR	11.4	0.0	11.4
Import/Export of WR (With NR)									
1	HVDC	CHAMPA-KURKSHETRA	2	6	1497	15.0	15.0	0.0	
2	HVDC	VINDHYACHAL-B/B	-	445	0	12.1	0.0	12.1	
3	HVDC	MUNDRA-MOHINDERGARH	2	0	998	0.0	7.4	-7.4	
4	765 kV	GWALIOR-AGRA	2	0	1777	0.0	19.9	-19.9	
5	765 kV	GWALIOR-PHAGI	2	0	1482	0.0	7.9	-7.9	
6	765 kV	JABALPUR-ORAI	2	0	0	0.0	11.6	-11.6	
7	765 kV	GWALIOR-ORAI	1	860	23	11.4	0.0	11.4	
8	765 kV	SATNA-ORAI	1	0	884	0.0	14.6	-14.6	
9	765 kV	BANASKANTHA-CHITORGARH	2	0	0	30.7	0.0	30.7	
10	765 kV	VINDHYACHAL-VARANASI	2	0	247	0.0	40.5	-40.5	
11	400 kV	ZERDA-KANKROLI	1	242	0	6.0	0.0	6.0	
12	400 kV	ZERDA-BHINMAL	1	334	0	7.3	0.0	7.3	
13	400 kV	VINDHYACHAL-RIHAND	1	957	0	18.7	0.0	18.7	
14	400 kV	RAPS-SHILAIPTUR	2	317	250	5.9	1.3	4.6	
15	220 kV	BHANPURA-BANPUR	1	0	0	0.0	0.0	0.0	
16	220 kV	BHANPURA-MORAK	1	0	30	0.0	0.0	0.0	
17	220 kV	MEHGAON-AURAIYA	1	0	0	0.8	0.0	0.8	
18	220 kV	MALANPUR-AURAIYA	1	51	0	0.5	0.0	0.5	
19	132 kV	GWALIOR-SAWALMADHOPUR	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	108.4	118.1	-9.7
Import/Export of WR (With SR)									
1	HVDC	BHADRAWATI-B/B	-	0	1009	0.0	12.0	-12.0	
2	HVDC	BAHARH-PUGAULUR	2	0	4596	0.0	76.6	-76.6	
3	765 kV	KOLHAPUR-RAICHUR	2	0	0	0.0	16.5	-16.5	
4	765 kV	WARDHA-NIZAMABAD	2	0	2560	0.0	41.5	-41.5	
5	400 kV	KOLHAPUR-KUDGI	2	620	0	18.2	0.0	18.2	
6	220 kV	KOLHAPUR-CHIKODI	2	0	0	0.0	0.0	0.0	
7	220 kV	BONDA-AMBEWADI	1	0	0	0.0	0.0	0.0	
8	220 kV	NELDEMI-AMBEWADI	1	0	130	2.4	0.0	2.4	
						WR-SR	20.6	146.6	-125.9
INTERNATIONAL EXCHANGES									
State	Region	Line Name	Max (MW)	Min (MW)	Avg (MW)	Import(+ve)/Export(-ve) Energy Exchange (MU)			
BHUTAN	ER	400kV MANGDECHHU-ALIPURDUAR 1,2&3 i.e. ALIPURDUAR RECEIPT (from MANGDECHHU HEP 4*180MW)	105	-41	33	0.78			
	ER	400kV TALA-BINAGURI 1,2,3 (& 400kV MALBASE - BINAGURI) i.e. BINAGURI RECEIPT (from TALA HEP 6*170MW)	321	176	260	6.24			
	ER	220kV CHUKHA-BIRPARA 1&2 (& 220kV MALBASE - BIRPARA) i.e. BIRPARA RECEIPT (from CHUKHA HEP 4*84MW)	-179	-41	-127	-3.04			
	NER	132kV GELEPHU-SALAKATI	-27	-5	-17	-0.41			
NEPAL	NER	132kV MOTANGA-RANGIA	16	0	4	0.09			
	NR	132kV MAHENDRANAGAR-TANAKPUR(NHPC)	-78	0	-68	-1.63			
	ER	NEPAL IMPORT (FROM BIHAR)	-106	-62	-84	-2.02			
BANGLADESH	ER	400kV DHALKEBAR-MUZAFFARPUR 1&2	-535	-257	-426	-10.23			
	ER	BHERAMARA B/B HVDC (B'DESH)	-937	-829	-912	-21.90			
	ER (Isolated from Indian Grid)	400kV GODDA_TPS-RAHANPUR (B'DESH) D/C	-568	-370	-469	-11.25			
	NER	132kV COMILLA-SURAJMANI NAGAR 1&2	-156	0	-131	-3.14			