



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: 22th 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 21.04.2023.

महोदय/Dear Sir,

आई०ई०जी०सी०-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 21-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 21th April 2023, is available at the NLDC website.

धन्यवाद,

Report for previous day

Date of Reporting: 22-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)	57209	60787	49031	24659	2313	193999
Peak Shortage (MW)	0	0	0	0	57	57
Energy Met (MU)	1229	1462	1274	570	43	4578
Hydro Gen (MU)	218	32	65	47	13	374
Wind Gen (MU)	11	102	62	-	-	175
Solar Gen (MU)*	146.71	67.03	117.48	4.78	0.83	337
Energy Shortage (MU)	0.00	0.00	0.00	0.54	1.10	1.64
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	58121	67085	61326	27535	2489	204777
Time Of Maximum Demand Met (From NLDC SCADA)	19:45	14:47	14:53	00:01	18:09	14:47

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	0.055	0.00	0.12	7.02	7.14	63.66	29.20

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	6632	0	138.6	33.4	-1.5	137	0.00
	Haryana	7974	0	157.3	95.2	-0.5	206	0.00
	Rajasthan	13479	0	274.2	79.0	-6.5	221	0.00
	Delhi	4680	0	98.8	92.5	-2.8	99	0.00
	UP	21619	0	420.3	174.5	-0.1	475	0.00
	Uttarakhand	2069	0	42.8	20.7	-1.4	129	0.00
	HP	1567	0	29.2	8.9	-0.1	49	0.00
	J&K(UT) & Ladakh(UT)	2853	0	59.3	39.7	-0.8	283	0.00
	Chandigarh	220	0	4.8	4.8	0.0	38	0.00
	Railways NR ISTS	180	0	3.9	3.2	0.7	48	0.00
WR	Chhattisgarh	5154	0	110.7	55.0	-5.1	164	0.00
	Gujarat	20902	0	452.4	162.0	-0.8	586	0.00
	MP	11393	0	239.5	139.5	-1.8	413	0.00
	Maharashtra	27145	0	581.9	200.5	-3.6	783	0.00
	Goa	740	0	16.1	16.0	-0.4	30	0.00
	DNHDDPDCL	1261	0	29.5	29.8	-0.3	62	0.00
	AMNSIL	885	0	19.5	8.2	0.0	290	0.00
	BALCO	522	0	12.4	12.5	-0.1	516	0.00
	Andhra Pradesh	12074	0	241.3	106.4	-0.4	658	0.00
	Telangana	11374	0	219.2	89.0	-2.0	518	0.00
SR	Karnataka	15664	0	298.1	114.9	-0.2	469	0.00
	Kerala	4752	0	99.5	74.2	0.1	189	0.00
	Tamil Nadu	18892	0	405.4	243.5	-1.8	401	0.00
	Puducherry	474	0	10.6	10.6	-0.6	22	0.00
	Bihar	6155	0	122.7	115.9	-3.0	315	0.54
ER	DVC	3420	0	79.3	-43.5	0.1	302	0.00
	Jharkhand	1788	0	35.1	31.2	-3.9	138	0.00
	Odisha	5045	0	111.0	39.3	-1.8	510	0.00
	West Bengal	10969	0	220.4	89.5	-5.5	165	0.00
	Sikkim	100	0	1.3	1.2	0.1	60	0.00
	Arunachal Pradesh	131	0	2.4	2.6	-0.3	10	0.00
NER	Assam	1701	0	27.8	22.6	-0.8	80	0.00
	Manipur	123	0	1.4	1.9	-0.6	43	0.00
	Meghalaya	291	25	5.0	4.0	0.1	95	1.10
	Mizoram	98	0	1.3	1.6	-0.7	25	0.00
	Nagaland	139	0	2.3	2.4	-0.1	9	0.00
	Tripura	224	0	3.2	3.6	-1.1	20	0.00

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

	Bhutan	Nepal	Bangladesh	Godda -> Bangladesh
Actual (MU)	5.5	-13.2	-24.2	-15.9
Day Peak (MW)	417.0	-759.6	-1084.0	-759.2

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	104.0	-254.9	200.1	-43.6	-5.6	0.0
Actual(MU)	75.2	-238.6	217.9	-54.0	-7.3	-6.7
O/D/U/D(MU)	-28.8	16.3	17.8	-10.4	-1.7	-6.7

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL	% Share
Central Sector	3047	10611	3498	2290	425	19871	52
State Sector	6005	7767	1958	2100	286	18116	48
Total	9052	18378	5456	4390	711	37986	100

G. Sourcewise generation (Gross) (MU)

	NR	WR	SR	ER	NER	All India	% Share
Coal	764	1553	751	658	15	3740	75
Lignite	25	18	60	0	0	102	2
Hydro	218	32	65	47	13	374	8
Nuclear	30	35	45	0	0	110	2
Gas, Naptha & Diesel	17	20	6	0	29	73	1
RES (Wind, Solar, Biomass & Others)	177	170	211	5	1	565	11
Total	1232	1827	1137	710	57	4964	100

Share of RES in total generation (%)	14.38	9.32	18.57	0.73	1.45	11.37
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	34.54	12.97	28.18	7.35	23.85	21.13

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.058
Based on State Max Demands	1.087

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: 22-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	2.5	-2.5	
3	765 kV	GAYA-VARANASI	2	462	508	0.0	2.3	-2.3	
4	765 kV	SASARAM-FAITEHPUR	1	178	457	0.0	3.7	-3.7	
5	765 kV	GAYA-BALIA	1	0	550	0.0	7.7	-7.7	
6	400 kV	PUSAULI-VARANASI	1	0	150	0.0	2.2	-2.2	
7	400 kV	PUSAULI-ALLAHABAD	1	45	58	0.0	0.1	-0.1	
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	405	739	0.0	3.2	-3.2	
9	400 kV	PATNA-BALIA	2	95	474	0.0	2.5	-2.5	
10	400 kV	NAIBATTI-R-BALIA	2	139	508	0.0	5.2	-5.2	
11	400 kV	BIHARSHARIFE-BALIA	2	332	315	0.0	0.2	-0.2	
12	400 kV	MOTIHARI-GORAKHPUR	2	117	441	0.0	3.5	-3.5	
13	400 kV	BIHARSHARIFE-VARANASI	2	277	259	0.0	1.0	-1.0	
14	220 kV	SAHUPUR-BAKRAMANASA	1	0	201	0.0	3.7	-3.7	
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	0	0.0	0.0	0.0	
18	132 kV	KARMANASA-CHANDAUJI	1	0	0	0.0	0.0	0.0	
						ER-NR	0.4	40.5	-40.2
Import/Export of ER (With WR)									
1	765 kV	JHARSUGUDA-DHARAMJIAGARH	4	2154	0	32.8	0.0	32.8	
2	765 kV	NEW RANCHI-DHARAMJIAGARH	2	953	379	9.5	0.0	9.5	
3	765 kV	JHARSUGUDA-DURG	2	0	687	0.0	10.0	-10.0	
4	400 kV	JHARSUGUDA-RAIGARH	4	29	384	0.0	4.2	-4.2	
5	400 kV	RANCHI-SIPA	2	198	106	1.9	0.0	1.9	
6	220 kV	BUDDHIPADAR-RAIGARH	1	0	56	0.0	1.9	-1.9	
7	220 kV	BUDDHIPADAR-KORBA	2	97	0	1.6	0.0	1.6	
						ER-WR	45.7	16.0	29.7
Import/Export of ER (With SR)									
1	HVDC	JEYPORE-GAZI-WAKA B/B	2	0	657	0.0	12.2	-12.2	
2	HVDC	TALCHER-KOLAR-BIPPLE	2	0	1652	0.0	38.9	-38.9	
3	765 kV	ANGUL-SRIKAKULAM	2	0	2845	0.0	54.4	-54.4	
4	400 kV	TALCHER-I/C	2	418	110	2.6	0.0	2.6	
5	220 kV	BALIMELA-UPPER-SILERRU	1	0	0	0.0	0.0	0.0	
						ER-SR	0.0	105.4	-105.4
Import/Export of ER (With NER)									
1	400 kV	BINAGURI-BONGAIGAOON	2	326	0	3.9	0.0	3.9	
2	400 kV	ALIPURDUAR-BONGAIGAOON	1	1008	0	11.8	0.0	11.8	
3	220 kV	ALIPURDUAR-SALAKATI	2	178	0	2.2	0.0	2.2	
						ER-NER	17.9	0.0	17.9
Import/Export of NER (With NR)									
1	HVDC	BISWANATH CHARIALI-AGRA	2	481	0	11.4	0.0	11.4	
						NER-NR	11.4	0.0	11.4
Import/Export of WR (With NR)									
1	HVDC	CHAMPA-KURUKSHETRA	2	0	747	0.0	32.0	-32.0	
2	HVDC	VINDHYACHAL-B/B	-	439	0	11.1	0.0	11.1	
3	HVDC	MUNDRA-MOHINDERGARH	2	0	784	0.0	27.2	-27.2	
4	765 kV	GWALIOR-AGRA	2	189	1567	0.2	16.0	-15.8	
5	765 kV	GWALIOR-PHAGI	2	0	0	0.0	8.9	-8.9	
6	765 kV	JABALPUR-ORAI	2	270	0	614	10.5	-10.5	
7	765 kV	GWALIOR-ORAI	1	0	0	11.2	0.0	11.2	
8	765 kV	SATNA-ORAI	1	0	777	0.0	13.8	-13.8	
9	765 kV	BANASKANTHA-CHITTOORGARH	2	1167	0	30.0	0.0	30.0	
10	765 kV	VINDHYACHAL-VARANASI	2	0	2181	0.0	37.6	-37.6	
11	400 kV	ZERDA-KANKROLI	1	459	0	5.6	0.0	5.6	
12	400 kV	ZERDA-BHINMAL	1	322	0	7.7	0.0	7.7	
13	400 kV	VINDHYACHAL-RIHAND	1	477	0	21.3	0.0	21.3	
14	400 kV	RAPS-SHILAIPTUR	2	790	0	22.2	5.7	4.6	
15	220 kV	BHANPURA-BANPUR	1	0	0	0.0	0.0	0.0	
16	220 kV	BHANPURA-MORAK	1	0	0	0.0	0.0	0.0	
17	220 kV	MEHGAON-AURAIYA	1	39	0	1.1	0.0	1.1	
18	220 kV	MALANPUR-AURAIYA	1	66	0	0.8	0.0	0.8	
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	94.6	147.1	-52.4
Import/Export of WR (With SR)									
1	HVDC	BHADRAWATI-B/B	-	0	1009	1.1	12.1	-11.0	
2	HVDC	BAHARH-PUGAULUR	2	0	4514	0.0	109.0	-109.0	
3	765 kV	KOLAPUR-RAICHUR	2	0	423	0.0	13.0	-13.0	
4	765 kV	WARDHA-NIZAMABAD	2	0	2674	0.0	46.0	-46.0	
5	400 kV	KOLHAPUR-KUDGI	2	1008	0	20.1	0.0	20.1	
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	77	2.7	0.0	2.7	
						WR-SR	23.8	180.1	-156.3
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 IEP 4180MW)	192	-118	70	1.68			
	ER	400kV TALA-BINAGURI 1,2,4 (& 400kV MALBASE - BINAGURI) I.e. BINAGURI RECEIPT (from TALA IEP 66170MW)	411	133	233	5.58			
	ER	220kV CHUKHA-BIRPARA 1&2 (& 220kV MALBASE - BIRPARA) I.e. BIRPARA RECEIPT (from CHUKHA IEP 4584MW)	-98	23	-68	-1.62			
	NER	132kV GELEPHU-SALAKATI	-24	-2	-11	-0.26			
NEPAL	NER	132kV MOTANGA-RANGIA	25	-12	5	0.11			
	ER	132kV MAHENDRANAGAR-TANAKPUR(NHPC)	-79	0	-61	-1.46			
BANGLADESH	ER	400kV DHALKEBAR-MUZAFFARPUR 1&2	-515	-181	-400	-9.59			
	ER (Isolated from Indian Grid)	BHERAMARA B/B HVDC (B'DESH) 400kV GODDA_TPS-RAHANPUR (B'DESH) D/C	-947 -759	-822 -611	-910 -661	-21.85 -15.86			
	NER	132kV COMILLA-SURAJMANI NAGAR 1&2	-137	0	-97	-2.32			