



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: 15th 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 14.04.2023.

महोदय/Dear Sir,

आई०ई०जी०सी०-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 14-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 14th April 2023, is available at the NLDC website.

धन्यवाद,

Report for previous day

Date of Reporting: 15-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)	55204	59664	48409	26345	2835	192457
Peak Shortage (MW)	1618	0	0	391	53	2062
Energy Met (MU)	1177	1497	1281	586	53	4594
Hydro Gen (MU)	144	34	76	47	8	309
Wind Gen (MU)	14	103	32	-	-	149
Solar Gen (MU)*	136.85	63.33	118.18	5.22	1.06	325
Energy Shortage (MU)	16.54	0.00	0.00	6.86	1.45	24.85
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	56619	68186	62453	26792	2914	206183
Time Of Maximum Demand Met (From NLDC SCADA)	19:46	14:54	15:33	23:40	18:33	11:45

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	0.061	0.19	2.06	9.87	12.12	71.46	16.42

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	7547	0	152.1	43.6	-1.3	146	0.00
	Haryana	7488	169	147.3	91.7	-0.1	335	2.69
	Rajasthan	12694	328	252.9	85.1	0.1	215	8.83
	Delhi	4305	0	88.7	89.1	-2.1	144	0.00
	UP	21676	0	401.7	124.4	-0.1	462	1.32
	Uttarakhand	2054	0	41.1	27.2	0.1	116	1.82
	HP	1658	0	31.9	17.9	-0.1	97	0.00
	J&K(UT) & Ladakh(UT)	2718	200	54.2	40.4	2.5	405	1.88
	Chandigarh	217	0	4.2	4.3	-0.1	23	0.00
	Railways NR ISTS	162	0	3.1	3.0	0.1	31	0.00
WR	Chhattisgarh	5523	0	128.5	67.5	-0.4	186	0.00
	Gujarat	20503	0	450.9	194.3	-1.8	1277	0.00
	MP	11834	0	266.9	146.4	-2.6	524	0.00
	Maharashtra	27617	0	575.9	185.1	-2.2	646	0.00
	Goa	746	0	15.2	15.2	-0.5	110	0.00
	DNHDDPDCL	1230	0	28.8	29.2	-0.4	78	0.00
	AMNSIL	849	0	17.9	4.4	0.0	266	0.00
	BALCO	518	0	12.4	12.5	-0.1	5	0.00
	Andhra Pradesh	12494	0	244.8	105.1	1.8	798	0.00
	Telangana	12631	0	249.8	118.8	-0.5	685	0.00
SR	Karnataka	15849	0	299.3	124.0	-0.4	717	0.00
	Kerala	4759	0	100.3	73.4	0.0	172	0.00
	Tamil Nadu	17469	0	377.2	234.1	-1.4	339	0.00
	Puducherry	420	0	9.6	9.6	-0.7	27	0.00
	Bihar	6304	0	124.5	111.2	-2.0	261	1.84
ER	DVC	3576	0	78.4	-49.6	0.7	262	0.00
	Jharkhand	1596	164	33.5	25.0	-0.8	292	5.02
	Odisha	6102	0	123.4	49.7	-1.0	324	0.00
	West Bengal	10360	0	225.0	82.3	-1.8	340	0.00
	Sikkim	98	0	1.5	1.3	0.2	54	0.00
	Arunachal Pradesh	126	0	2.4	2.8	-0.5	67	0.00
NER	Assam	1818	0	33.5	26.0	0.6	130	0.13
	Manipur	188	0	2.5	2.7	-0.1	23	0.00
	Meghalaya	293	26	5.2	3.2	0.5	78	1.32
	Mizoram	111	0	1.8	1.5	-0.2	14	0.00
	Nagaland	144	0	2.1	2.2	-0.1	24	0.00
	Tripura	306	0	5.5	4.4	0.2	81	0.00

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

	Bhutan	Nepal	Bangladesh	Godda -> Bangladesh
Actual (MU)	1.7	-12.6	-24.8	-18.0
Day Peak (MW)	184.2	-605.0	-1078.0	-821.3

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	98.3	-205.2	201.2	-95.1	0.8	0.0
Actual(MU)	89.4	-198.7	203.2	-101.0	3.0	-4.2
O/D/U/D(MU)	-8.9	6.5	2.0	-6.0	2.1	-4.2

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL	% Share
Central Sector	3047	12631	3508	1420	459	21064	48
State Sector	8940	8485	4201	1120	229	22974	52
Total	11987	21116	7709	2540	688	44038	100

G. Sourcewise generation (Gross) (MU)

	NR	WR	SR	ER	NER	All India	% Share
Coal	799	1558	758	723	17	3856	77
Lignite	15	16	64	0	0	95	2
Hydro	144	34	76	47	8	309	6
Nuclear	30	35	70	0	0	135	3
Gas, Naptha & Diesel	9	9	6	0	31	56	1
RES (Wind, Solar, Biomass & Others)	170	168	182	6	1	527	11
Total	1167	1821	1157	776	57	4978	100

Share of RES in total generation (%)	14.54	9.22	15.76	0.74	1.85	10.58
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	29.48	13.01	28.36	6.75	16.31	19.50

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.052
Based on State Max Demands	1.086

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: 15-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	-	1	296	0.0	7.0	-7.0	
3	765 kV	GAYA-VARANASI	2	197	550	0.0	5.0	-5.0	
4	765 kV	SASARAM-FAITEHPUR	1	5	323	0.0	3.9	-3.9	
5	765 kV	GAYA-BALIA	1	0	572	0.0	8.4	-8.4	
6	400 kV	PUSAULI-VARANASI	1	20	250	0.0	4.5	-4.5	
7	400 kV	PUSAULI-ALLAHABAD	1	0	147	0.0	3.2	-3.2	
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	328	476	1.2	3.4	-2.2	
9	400 kV	PATNA-BALIA	2	0	525	0.0	7.3	-7.3	
10	400 kV	NAUBATTI-R-BALIA	2	0	559	0.0	8.1	-8.1	
11	400 kV	BIHARSHARIFE-BALIA	2	309	248	0.1	0.0	0.1	
12	400 kV	MOTIHARI-GORAKHPUR	2	178	399	0.0	3.7	-3.7	
13	400 kV	BIHARSHARIFE-VARANASI	2	146	214	0.0	0.9	-0.9	
14	220 kV	SAHUPUR-BAKRAMANASA	1	0	176	0.0	2.8	-2.8	
15	132 kV	NAGARJUNTA-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	5	0.0	0.0	0.0	
18	132 kV	KARMANASA-CHANDAUJI	1	0	0	0.0	0.0	0.0	
						ER-NR	1.7	57.1	-55.4
Import/Export of ER (With WR)									
1	765 kV	JHARSUGUDA-DHARAMJAGARH	4	1986	0	28.1	0.0	28.1	
2	765 kV	NEW RANCHI-DHARAMJAGARH	2	887	643	3.7	0.0	3.7	
3	765 kV	JHARSUGUDA-DURG	2	0	851	0.0	13.9	-13.9	
4	400 kV	JHARSUGUDA-RAIGARH	4	0	610	0.0	8.7	-8.7	
5	400 kV	RANCHI-SIPA	2	108	230	0.0	1.4	-1.4	
6	220 kV	BUDDHPADAR-RAIGARH	1	0	154	0.0	2.4	-2.4	
7	220 kV	BUDDHPADAR-KORBA	2	108	40	0.5	0.0	0.5	
						ER-WR	32.4	26.4	6.0
Import/Export of ER (With SR)									
1	HVDC	JEYPORE-GAZIWAKA B/B	2	0	654	0.0	15.1	-15.1	
2	HVDC	TALCHER-KOLAR BIPPLE	2	0	1640	0.0	39.6	-39.6	
3	765 kV	ANGUL-SRIKAKULAM	2	0	2890	0.0	55.8	-55.8	
4	400 kV	TALCHER-I/C	2	269	0	5.0	0.0	5.0	
5	220 kV	BALIMELA-UPPER-SILERRU	1	0	0	0.0	0.0	0.0	
						ER-SR	0.0	110.5	-110.5
Import/Export of ER (With NER)									
1	400 kV	BINAGURI-BONGAIGAOON	2	154	101	1.4	0.1	1.3	
2	400 kV	ALIPURDUAR-BONGAIGAOON	1	566	206	5.5	0.0	5.5	
3	220 kV	ALIPURDUAR-SALAKATI	2	56	34	0.6	0.0	0.6	
						ER-NER	7.5	0.1	7.4
Import/Export of NER (With NR)									
1	HVDC	BISWANATH CHARIALI-AGRA	2	480	0	10.4	0.0	10.4	
						NER-NR	10.4	0.0	10.4
Import/Export of WR (With NR)									
1	HVDC	CHAMPA-KURUKSHETRA	2	0	1499	0.0	35.9	-35.9	
2	HVDC	VINDHYACHAL-B/B	-	449	0	8.3	0.0	8.3	
3	HVDC	MUNDRA-MOHINDERGARH	2	0	0	0.0	0.0	0.0	
4	765 kV	GWALIOR-AGRA	2	253	1865	0.0	17.7	-17.7	
5	765 kV	GWALIOR-PHAGI	2	364	1710	0.0	22.5	-22.5	
6	765 kV	JABALPUR-ORAI	2	282	782	0.0	12.3	-12.3	
7	765 kV	GWALIOR-ORAI	1	932	0	11.6	0.0	11.6	
8	765 kV	SATNA-ORAI	1	0	869	0.0	15.7	-15.7	
9	765 kV	BANASKANTHA-CHITORGARH	2	2352	0	33.0	0.0	33.0	
10	765 kV	VINDHYACHAL-VARANASI	2	0	2626	0.0	38.4	-38.4	
11	400 kV	ZERDA-KANKROLI	1	399	0	5.8	0.0	5.8	
12	400 kV	ZERDA-BHINMAL	1	708	0	7.7	0.0	7.7	
13	400 kV	VINDHYACHAL-RIHAND	1	962	0	21.5	0.0	21.5	
14	400 kV	RAPS-SHILAPUR	2	585	2	0.7	0.0	0.7	
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	98	0	1.3	0.0	1.3	
18	220 kV	MALANPUR-AURAIYA	1	82	0	1.0	0.0	1.0	
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	90.9	142.5	-51.6
Import/Export of WR (With SR)									
1	HVDC	BHADRAWATI-B/B	-	0	1016	0.0	14.3	-14.3	
2	HVDC	BAHARH-PUGAUR	2	0	6015	0.0	39.6	-39.6	
3	765 kV	KOLHAPUR-RAICHUR	2	340	1823	0.0	13.4	-13.4	
4	765 kV	WARDHA-NIZAMABAD	2	0	2595	0.0	47.8	-47.8	
5	400 kV	KOLHAPUR-KUDGI	2	1346	0	22.2	0.0	22.2	
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	2.8	0.0	2.8	
						WR-SR	24.9	165.1	-140.2
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 I.e. ALIPURDUAR RECEIPT (from MANGDECHHU IEP 4180MW)	80	-41	10	0.24			
	ER	400kV TALA-BINAGURI 1,2,4 (& 400kV MALBASE - BINAGURI) I.e. BINAGURI RECEIPT (from TALA IEP 6170MW)	176	97	134	3.21			
	ER	220kV CHUKHA-BIRPARA 1&2 (& 220kV MALBASE - BIRPARA) I.e. BIRPARA RECEIPT (from CHUKHA IEP 4584MW)	-112	-46	-77	-1.86			
	NER	132kV GELEPHU-SALAKATI	-17	-1	-6	-0.15			
NEPAL	NER	132kV MOTANGA-RANGIA	35	0	9	0.23			
	NR	132kV MAHENDRANAGAR-TANAKPUR(NHPC)	0	0	0	-1.47			
BANGLADESH	ER	400kV DHALKEBAR-MUZAFFARPUR 1&2	-427	-255	-381	-9.15			
	ER (Isolated from Indian Grid)	BHERAMARA B/B HVDC (B'DESH) 400kV GODDA_TPS-RAHANPUR (B'DESH) D/C	-942 -821	-848 -745	-913 -749	-21.91 -17.99			
	NER	132kV COMILLA-SURAJMANI NAGAR 1&2	-136	0	-120	-2.88			