



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: 17th 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 16.04.2023.

महोदय/Dear Sir,

आई०ई०जी०सी०-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 16-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 16th April 2023, is available at the NLDC website.

धन्यवाद,

Report for previous day

Date of Reporting: 17-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)	56674	59678	46916	26766	2908	192942
Peak Shortage (MW)	838	7	0	418	51	1314
Energy Met (MU)	1168	1432	1226	599	55	4480
Hydro Gen (MU)	155	31	77	44	9	317
Wind Gen (MU)	20	80	28	-	-	127
Solar Gen (MU)*	137.53	68.08	131.03	5.14	0.93	343
Energy Shortage (MU)	8.17	1.21	0.00	6.51	1.73	17.62
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	56806	65176	57637	27264	3040	194976
Time Of Maximum Demand Met (From NLDC SCADA)	20:39	15:01	12:45	20:43	19:30	15:01

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	0.074	0.67	3.28	7.28	11.23	66.97	21.80

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	6880	0	143.6	39.4	-1.1	112	0.12
	Haryana	7437	0	139.9	76.5	-2.0	170	0.49
	Rajasthan	12623	0	260.6	67.9	-3.3	139	4.72
	Delhi	4371	0	90.7	84.4	-3.0	92	0.00
	UP	21914	0	406.1	142.8	-1.8	281	0.78
	Uttarakhand	1908	0	39.0	24.4	-0.1	67	1.12
	HP	1436	0	27.4	13.1	0.1	75	0.01
	J&K(UT) & Ladakh(UT)	2890	550	53.4	41.9	0.1	397	0.93
	Chandigarh	217	0	4.2	4.3	-0.1	11	0.00
	Railways NR ISTS	154	0	3.2	2.8	0.4	65	0.00
WR	Chhattisgarh	5562	0	127.5	69.7	0.7	391	1.21
	Gujarat	19534	0	434.1	177.2	0.3	1004	0.00
	MP	11724	0	258.1	142.7	-3.5	450	0.00
	Maharashtra	25533	0	537.6	174.2	2.2	805	0.00
	Goa	698	0	14.4	14.1	-0.2	74	0.00
	DNHDDPDCL	1206	0	28.1	28.4	-0.3	50	0.00
	AMNSIL	871	0	19.6	10.3	0.2	291	0.00
	BALCO	520	0	12.4	12.5	-0.1	7	0.00
	Andhra Pradesh	11925	0	241.8	99.1	1.2	471	0.00
	Telangana	12049	0	235.3	107.7	-1.1	486	0.00
SR	Karnataka	14181	0	282.2	114.4	0.6	716	0.00
	Kerala	4359	0	90.8	64.6	0.6	307	0.75
	Tamil Nadu	16685	0	367.0	217.3	-0.1	408	0.00
	Puducherry	405	0	9.1	9.1	-0.6	12	0.00
	Bihar	6358	132	125.6	115.6	-3.0	312	2.04
ER	DVC	3508	0	77.4	-40.1	0.7	272	0.00
	Jharkhand	1835	0	35.4	27.7	-1.3	186	4.47
	Odisha	6775	0	133.7	50.6	-2.3	451	0.00
	West Bengal	10703	0	225.9	88.0	-1.8	272	0.00
	Sikkim	70	0	1.1	1.0	0.1	33	0.00
NER	Arunachal Pradesh	150	0	2.3	2.4	-0.1	70	0.00
	Assam	1923	0	34.5	26.8	0.9	272	0.46
	Manipur	188	0	2.7	2.7	0.1	28	0.00
	Meghalaya	284	51	5.3	3.2	0.5	70	1.27
	Mizoram	106	0	1.9	1.3	-0.1	23	0.00
	Nagaland	140	0	2.5	2.5	0.0	30	0.00
	Tripura	301	0	6.0	5.2	0.6	97	0.00

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

	Bhutan	Nepal	Bangladesh	Godda -> Bangladesh
Actual (MU)	1.9	-13.7	-21.2	-17.9
Day Peak (MW)	275.0	-815.9	-941.0	-783.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	68.1	-196.3	182.6	-56.5	2.1	0.0
Actual(MU)	52.0	-182.6	181.2	-66.5	5.9	-9.9
O/D/U/D(MU)	-16.1	13.7	-1.4	-10.0	3.8	-9.9

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL	% Share
Central Sector	3247	12376	4158	1450	425	21656	50
State Sector	6640	9036	4211	1570	229	21686	50
Total	9887	21412	8369	3020	654	43341	100

G. Sourcewise generation (Gross) (MU)

	NR	WR	SR	ER	NER	All India	% Share
Coal	806	1517	706	701	16	3745	77
Lignite	12	16	65	0	9	92	2
Hydro	155	31	77	44	9	317	7
Nuclear	30	35	70	0	0	135	3
Gas, Naptha & Diesel	16	4	6	0	31	58	1
RES (Wind, Solar, Biomass & Others)	177	150	159	6	1	492	11
Total	1195	1753	1083	751	57	4839	100

Share of RES in total generation (%)	14.83	8.53	14.65	0.76	1.63	10.75
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	30.32	12.32	28.22	6.66	17.25	20.03

H. All India Demand Diversity Factor

Based on Regional Max Demands	1,077
Based on State Max Demands	1,115

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: 17-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	-	3	0	0.0	1.7	-1.7	
3	765 kV	GAYA-VARANASI	2	296	576	0.0	2.3	-2.3	
4	765 kV	SASARAM-FAITEHPUR	1	32	459	0.0	5.2	-5.2	
5	765 kV	GAYA-BALIA	1	35	468	0.0	5.2	-5.2	
6	400 kV	PUSAULI-VARANASI	1	13	67	0.0	0.5	-0.5	
7	400 kV	PUSAULI-ALLAHABAD	1	74	13	0.0	0.8	-0.8	
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	387	392	0.0	0.7	-0.7	
9	400 kV	PATNA-BALIA	2	49	373	0.0	4.6	-4.6	
10	400 kV	NAIBATTI-R-BALIA	2	202	377	0.0	3.7	-3.7	
11	400 kV	BIHARSHARIFE-BALIA	2	403	98	0.0	3.7	-3.7	
12	400 kV	MOTIHARI-GORAKHPUR	2	150	385	0.0	3.6	-3.6	
13	400 kV	BIHARSHARIFE-VARANASI	2	197	238	0.0	0.6	-0.6	
14	220 kV	SAHUPUR-BAKRAMANASA	1	0	192	0.0	3.1	-3.1	
15	132 kV	NAGARJUNTA-RIHAND	1	0	0	0.0	0.0	0.0	
16	132 kV	GARWAH-RIHAND	1	25	0	0.5	0.5	0.0	
17	132 kV	KARMANASA-SAHUPURI	1	0	0	0.0	0.0	0.0	
18	132 kV	KARMANASA-CHANDLAULI	1	0	0	0.0	0.0	0.0	
						ER-NR	4.2	31.0	-26.8
Import/Export of ER (With WR)									
1	765 kV	JHARSUGUDA-DHARAMJIAGARH	4	1832	0	29.4	0.0	29.4	
2	765 kV	NEW RANCHI-DHARAMJIAGARH	2	1092	784	5.9	0.0	5.9	
3	765 kV	JHARSUGUDA-DURG	2	0	714	0.0	10.3	-10.3	
4	400 kV	JHARSUGUDA-RAIGARH	4	0	505	0.0	6.9	-6.9	
5	400 kV	RANCHI-SIPAT	2	189	266	0.0	0.6	-0.6	
6	220 kV	BUDDHIPADAR-RAIGARH	1	0	151	0.0	2.5	-2.5	
7	220 kV	BUDDHIPADAR-KORBA	2	116	22	0.9	0.0	0.9	
						ER-WR	36.3	20.2	16.1
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	1645	0.0	39.6	-39.6	
3	765 kV	ANGUL-SRIKAKULAM	2	0	2920	0.0	51.4	-51.4	
4	400 kV	TALCHER-I/C	2	266	0	4.6	0.0	4.6	
5	220 kV	BALIMELA-UPPER-SILERRU	1	0	0	0.0	0.0	0.0	
						ER-SR	0.0	106.1	-106.1
Import/Export of ER (With NER)									
1	400 kV	BINAGURI-BONGAIGAOON	2	131	96	1.1	0.3	0.7	
2	400 kV	ALIPURDUAR-BONGAIGAOON	1	436	193	3.8	0.0	3.8	
3	220 kV	ALIPURDUAR-SALAKATI	2	82	31	0.4	0.0	0.4	
						ER-NER	5.2	0.3	4.9
Import/Export of NER (With NR)									
1	HVDC	BISWANATH CHARIALI-AGRA	2	482	0	10.7	0.0	10.7	
						NER-NR	10.7	0.0	10.7
Import/Export of WR (With NR)									
1	HVDC	CHAMPA-KURKSHETRA	2	0	1504	0.0	35.6	-35.6	
2	HVDC	VINDHYACHAL-B/B	-	450	0	12.2	0.0	12.2	
3	HVDC	MUNDRA-MOHINDERGARH	2	0	496	0.0	9.2	-9.2	
4	765 kV	GWALIOR-AGRA	2	586	1830	0.0	17.7	-17.7	
5	765 kV	GWALIOR-PHAGI	2	769	1548	3.9	19.3	-15.4	
6	765 kV	JABALPUR-ORAI	2	267	714	0.0	11.5	-11.5	
7	765 kV	GWALIOR-ORAI	1	845	0	14.3	0.0	14.3	
8	765 kV	SATNA-ORAI	1	0	850	0.0	16.3	-16.3	
9	765 kV	BANASKANTHA-CHITORGARH	2	2569	0	36.4	0.0	36.4	
10	765 kV	VINDHYACHAL-VARANASI	2	0	2746	0.0	38.9	-38.9	
11	400 kV	ZERDA-KANKROLLI	1	460	0	6.4	0.0	6.4	
12	400 kV	ZERDA-BHINMAL	1	753	79	8.3	0.1	8.2	
13	400 kV	VINDHYACHAL-RIHAND	1	971	0	20.4	0.0	20.4	
14	400 kV	RAPS-SHILAIPTUR	2	720	346	5.6	2.4	3.2	
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	100	0	1.2	0.0	1.2	
18	220 kV	MALANPUR-AURAIYA	1	84	0	0.9	0.0	0.9	
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	110.4	151.0	-40.6
Import/Export of WR (With SR)									
1	HVDC	BHADRAWATI-B/B	-	0	1012	0.0	8.6	-8.6	
2	HVDC	BAHARH-PUGAUR	2	0	6015	0.0	86.4	-86.4	
3	765 kV	KOLHAPUR-RAICHUR	2	557	1621	0.3	11.3	-11.0	
4	765 kV	WARDHA-NIZAMABAD	2	0	2878	0.0	46.2	-46.2	
5	400 kV	KOLHAPUR-KUDGI	2	1352	0	24.0	0.0	24.0	
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	121	2.4	0.0	2.4	
						WR-SR	26.7	152.4	-125.7
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 4180MW)		125	-75	-23	-0.55		
	ER	400kV TALA-BINAGURI 1,2,4 (& 400kV MALBASE - BINAGURI) Lc. BINAGURI RECEIPT (from TALA HEP 6170MW)		235	83	148	3.56		
	ER	220kV CHUKHA-BIRPARA 1&2 (& 220kV MALBASE - BIRPARA) Lc. BIRPARA RECEIPT (from CHUKHA HEP 4384MW)		-103	-46	-72	-1.72		
	NER	132kV GELEPHU-SALAKATI		-14	0	-6	-0.15		
NEPAL	NER	132kV MOTANGA-RANGIA		41	22	31	0.74		
	NR	132kV MAHENDRANAGAR-TANAKPUR(NHPC)		-75	0	-65	-1.55		
BANGLADESH	ER	400kV DHALKEBAR-MUZAFFARPUR 1&2		-551	-153	-388	-9.32		
	ER (Isolated from Indian Grid)	BHERAMARA B/B HVDC (B'DESH) 400kV GODDA_TPS-RAHANPUR (B'DESH) D/C		-776 -783	-652 -714	-745 -748	-17.89 -17.94		
	NER	132kV COMILLA-SURAJMANI NAGAR 1&2		-165	0	-138	-3.30		