



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: 16th 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 15.04.2023.

महोदय/Dear Sir,

आई०ई०जी०सी०-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 15-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 15th April 2023, is available at the NLDC website.

धन्यवाद,

Report for previous day

Date of Reporting:

16-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)	56004	60313	49445	27099	2804	195665
Peak Shortage (MW)	1504	0	0	309	120	1933
Energy Met (MU)	1192	1460	1251	605	53	4561
Hydro Gen (MU)	160	33	79	51	8	327
Wind Gen (MU)	24	85	43	-	-	153
Solar Gen (MU)*	130.60	61.48	117.82	5.84	-	317
Energy Shortage (MU)	14.79	0.00	1.20	4.96	1.99	22.94
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	57245	67459	60391	27109	2978	202601
Time Of Maximum Demand Met (From NLDC SCADA)	19:45	15:33	14:56	23:55	18:30	14:56

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	0.113	1.71	5.72	14.59	22.02	63.75	14.22

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	7327	345	154.2	41.3	-1.3	115	0.35
	Haryana	7370	408	146.5	89.0	-0.5	243	4.36
	Rajasthan	13119	0	259.7	81.9	-1.7	205	6.53
	Delhi	4291	0	91.4	86.2	-2.3	91	0.00
	UP	22044	0	410.9	134.6	0.4	392	0.18
	Uttarakhand	2066	0	41.3	27.6	0.0	107	1.46
	HP	1379	0	27.6	13.1	-0.4	37	0.04
	J&K(UT) & Ladakh(UT)	2559	0	52.7	39.0	-0.3	493	1.87
	Chandigarh	221	0	4.4	4.3	0.1	23	0.00
	Railways NR ISTS	162	0	3.3	2.9	0.4	62	0.00
WR	Chhattisgarh	5596	0	126.6	66.2	-1.9	227	0.00
	Gujarat	20576	0	451.5	194.0	0.0	766	0.00
	MP	12323	0	264.5	148.8	-2.6	391	0.00
	Maharashtra	26611	0	542.4	168.7	-2.4	610	0.00
	Goa	743	0	15.5	14.9	0.0	78	0.00
	DNHDDPDCL	1246	0	28.3	28.8	-0.5	28	0.00
	AMNSIL	817	0	18.4	7.8	-0.1	255	0.00
	BALCO	520	0	12.4	12.5	-0.1	30	0.00
	Andhra Pradesh	11978	0	241.3	96.8	0.2	1024	0.50
	Telangana	12075	0	231.5	105.0	2.4	1058	0.00
SR	Karnataka	14953	0	289.1	118.3	2.3	1065	0.70
	Kerala	4561	0	93.3	69.2	-0.2	148	0.00
	Tamil Nadu	18291	0	385.9	238.8	-0.5	589	0.00
	Puducherry	441	0	10.1	9.7	-0.4	23	0.00
	Bihar	6207	96	125.6	114.2	-2.7	244	0.36
ER	DVC	3611	0	77.8	45.2	2.6	544	0.00
	Jharkhand	1733	0	34.9	26.1	-0.7	249	4.60
	Odisha	6688	0	134.0	46.3	-0.5	348	0.00
	West Bengal	10587	0	231.3	86.6	-0.3	415	0.00
	Sikkim	90	0	1.5	1.4	0.1	60	0.00
NER	Arunachal Pradesh	158	0	2.3	2.4	-0.1	40	0.00
	Assam	1818	0	32.5	25.2	0.5	235	0.52
	Manipur	193	0	2.7	2.6	0.2	42	0.00
	Meghalaya	309	60	5.3	3.1	0.6	87	1.47
	Mizoram	117	0	1.9	1.5	-0.2	23	0.00
	Nagaland	127	0	2.2	2.1	0.1	42	0.00
	Tripura	303	0	6.0	5.5	0.6	135	0.00

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

	Bhutan	Nepal	Bangladesh	Godda -> Bangladesh
Actual (MU)	3.1	-12.0	-19.9	-17.9
Day Peak (MW)	312.0	-701.2	-1013.0	-772.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	82.8	-201.6	198.3	-80.6	1.1	0.0
Actual(MU)	71.7	-194.2	202.1	-84.5	4.2	-0.7
O/D/U/D(MU)	-11.1	7.4	3.8	-3.9	3.1	-0.7

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL	% Share
Central Sector	3047	13271	4008	640	425	21391	48
State Sector	6895	8435	4601	2420	229	22580	52
Total	9942	21706	8609	3060	654	43970	100

G. Sourcewise generation (Gross) (MU)

	NR	WR	SR	ER	NER	All India	% Share
Coal	809	1560	711	716	17	3814	77
Lignite	13	15	65	0	0	93	2
Hvdro	160	33	79	51	8	331	7
Nuclear	30	35	70	0	0	135	3
Gas, Naptha & Diesel	9	7	6	0	29	52	1
RES (Wind, Solar, Biomass & Others)	179	148	191	7	1	526	11
Total	1200	1798	1123	774	56	4951	100

Share of RES in total generation (%)	14.91	8.24	16.99	0.91	1.83	10.63
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	30.70	12.01	30.25	7.28	16.95	20.00

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.062
Based on State Max Demands	1.102

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: 16-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	ALIPURDIAR-AGRA	2	0	0	0.0	0.0	0.0	
2	HVDC	PUSAULI-BB	2	2	0	0.0	0.0	-6.6	
3	765 kV	GAYA-VARANASI	2	117	684	0.0	6.2	-6.2	
4	765 kV	SASARAM-FAITEHPUR	1	0	378	0.0	5.7	-5.7	
5	765 kV	GAYA-BALIA	1	0	522	0.0	6.9	-6.9	
6	400 kV	PUSAULI-VARANASI	1	31	54	0.0	0.4	-0.4	
7	400 kV	PUSAULI-ALLAHABAD	1	53	40	0.0	2.3	-2.3	
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	337	480	0.0	2.9	-2.9	
9	400 kV	PATNA-BALIA	2	0	570	0.0	7.6	-7.6	
10	400 kV	NAUBATPUR-BALIA	2	102	494	0.0	4.6	-4.6	
11	400 kV	BIHARSHARIFF-BALIA	2	356	211	1.1	0.0	1.1	
12	400 kV	MOTIHARI-GORAKHPUR	2	190	418	0.0	3.9	-3.9	
13	400 kV	BIHARSHARIFF-VARANASI	2	97	283	0.0	2.0	-2.0	
14	220 kV	SAHUPUR-KARAMANASA	1	0	173	0.0	2.8	-2.8	
15	132 kV	NAGAR UNTARI-RIHAND	1	0	0	0.0	0.0	0.0	
16	132 kV	GARWAH-RIHAND	1	25	0	0.5	0.0	0.5	
17	132 kV	KARMANASA-SAHUPURI	1	0	31	0.0	0.0	0.0	
18	132 kV	KARMANASA-CHANDAULI	1	0	0	0.0	0.0	0.0	
						ER-NR	1.5	51.8	-50.3
Import/Export of ER (With WR)									
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	1949	0	34.6	0.0	34.6	
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	747	761	3.7	0.0	3.7	
3	765 kV	JHARSUGUDA-RDURG	2	0	708	0.0	10.3	-10.3	
4	400 kV	JHARSUGUDA-RAIGARH	4	11	440	0.0	5.5	-5.5	
5	400 kV	RANCHI-SIPAT	2	89	237	0.0	0.6	-0.6	
6	220 kV	BUDHIPADAR-RAIGARH	1	0	158	0.0	2.7	-2.7	
7	220 kV	BUDHIPADAR-KORBA	1	86	32	0.7	0.0	0.7	
						ER-WR	39.0	19.2	19.9
Import/Export of ER (With SR)									
1	HVDC	JEKYONGGA/ZUYAKA/B/B	2	0	655	0.0	15.1	-15.1	
2	HVDC	TALCHER-KOLAR BIPOLE	2	0	1655	0.0	39.6	-39.6	
3	765 kV	ANGUL-SRIKAKULAM	2	0	3137	0.0	57.8	-57.8	
4	400 kV	TALCHER-I/C	2	271	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	112.4	-112.4
Import/Export of ER (With NER)									
1	400 kV	BINAGURI-BONGAIGAON	2	138	65	1.5	0.2	1.3	
2	400 kV	ALIPURDIAR-BONGAIGAON	2	455	133	5.6	0.0	5.6	
3	220 kV	ALIPURDIAR-SALAKATI	2	86	22	0.9	0.0	0.9	
						ER-NER	8.0	0.2	7.8
Import/Export of NER (With NR)									
1	HVDC	BISWANATH CHARIALI-AGRA	2	483	0	11.4	0.0	11.4	
						NER-NR	11.4	0.0	11.4
Import/Export of WR (With NR)									
1	HVDC	CHAMPA-SURUSKETRA	2	0	1500	0.0	34.0	-34.0	
2	HVDC	VINDHYACHAL-BBP	2	452	0	12.1	0.0	12.1	
3	HVDC	MUNDRA-MOHINDERGARH	2	0	0	0.0	0.0	0.0	
4	765 kV	GWALIOR-AGRA	2	388	1706	0.2	20.0	-19.8	
5	765 kV	GWALIOR-PHAGI	2	370	1735	0.5	23.5	-23.0	
6	765 kV	JABALPUR-ORAI	2	180	704	0.0	14.1	-14.1	
7	765 kV	GWALIOR-ORAI	1	911	0	16.9	0.0	16.9	
8	765 kV	SATNA-ORAI	1	0	869	0.0	17.2	-17.2	
9	765 kV	BANASKANTHA-CHITTORGARH	2	2516	0	34.5	0.0	34.5	
10	765 kV	VINDHYACHAL-VARANASI	2	0	2355	0.0	37.0	-37.0	
11	400 kV	ZERDA-KANEROLI	1	416	0	6.2	0.0	6.2	
12	400 kV	ZERDA-BHIMMAL	1	673	0	8.2	0.0	8.2	
13	400 kV	VINDHYACHAL-RIHAND	1	976	0	22.2	0.0	22.2	
14	400 kV	BAPP-SHULALPUR	2	596	329	3.7	2.6	1.2	
15	220 kV	BHANPURA-RANPUR	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	NITHIGAOAN-AURAIYA	1	101	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-SAWAI MADHOPUR	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	106.6	148.3	-41.8
Import/Export of WR (With SR)									
1	HVDC	BHADRAWATI/B/B	2	300	512	5.2	6.3	-1.1	
2	HVDC	RAIGARH-PUGALUR	2	0	6022	0.0	88.2	-88.2	
3	765 kV	SOLAPUR-RAICHUR	2	746	1825	0.9	19.2	-18.3	
4	765 kV	WARDHA-NIZAMABAD	2	0	3266	0.0	51.6	-51.6	
5	400 kV	KOI HAPIR-KUDGI	2	1333	0	24.1	0.0	24.1	
6	220 kV	KOI HAPIR-CHIKODI	2	0	0	0.0	0.0	0.0	
7	220 kV	PINDA-AMBEWADI	1	0	0	0.0	0.0	0.0	
8	220 kV	NELDEM-AMBEWADI	1	0	129	2.6	0.0	2.6	
						WR-SR	32.8	165.4	-132.6
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 6*180MW)		126	-67	35	0.84		
	ER	400KV TALEX-BINAGURI 1,2,3 (& 400KV MALBASE - BINAGURI) I.e. BINAGURI RECEIPT (from TALA HEP 6*170MW)		202	104	145	3.47		
	ER	220KV CHUKHA-BIRPARA 1&2 (& 220KV MALBASE - BIRPARA) I.e. BIRPARA RECEIPT (from CHUKHA HEP 4*84MW)		-129	-23	-75	-1.80		
	NER	132KV GELEPHU-SALAKATI		-13	0	-6	-0.15		
	NER	132KV MOTANGA-RANGIA		44	26	33	0.78		
NEPAL	NR	132KV MAHENDRANAGAR-TANAKPUR(NHPC)		-76	0	-59	-1.42		
	ER	NEPAL IMPORT (FROM BIHAR)		-93	-64	-78	-1.87		
BANGLADESH	ER	400KV DHALKEBAR-MUZAFFARPUR 1&2		-532	-216	-362	-8.69		
	ER	BHERAMARA B/B HVDC (B'DESH)		-878	-512	-707	-16.96		
	ER (Isolated from Indian Grid)	400KV GODDA_TPS-RAHANPUR (B'DESH) D/C		-772	-712	-746	-17.90		
	NER	132KV COMILLA-SURAJMANI NAGAR 1&2		-135	0	-122	-2.92		