



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: 20th 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 19.04.2023.

महोदय/Dear Sir,

आईईजीसी-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 19-अप्रैल-2023 की अखिल भारतीय प्रणाली की दैनिक ग्रीड निष्पादन रिपोर्ट रांभांप्रेके 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 19th April 2023, is available at the NLDC website.

धन्यवाद,

Report for previous day

Date of Reporting: 20-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)	60436	62902	52343	27674	2552	205907
Peak Shortage (MW)	641	0	0	676	101	1418
Energy Met (MU)	1242	1537	1329	630	54	4792
Hydro Gen (MU)	188	46	78	48	9	369
Wind Gen (MU)	15	117	33	-	-	165
Solar Gen (MU)*	122.53	65.53	125.23	2.65	0.98	317
Energy Shortage (MU)	12.57	0.38	0.00	4.19	1.80	18.94
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	60762	70402	63221	29302	2888	214924
Time Of Maximum Demand Met (From NLDC SCADA)	20:40	15:22	14:55	23:20	18:41	15:27

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	0.053	0.00	0.49	7.81	8.30	67.25	24.45

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	7172	0	135.6	28.7	-2.0	456	0.00
	Haryana	8216	0	153.6	89.8	-3.1	586	2.88
	Rajasthan	13680	0	271.4	71.5	-2.7	201	6.04
	Delhi	5232	0	107.1	96.1	-2.4	179	0.01
	UP	22923	0	435.8	165.8	0.7	641	2.63
	Uttarakhand	2093	0	42.2	24.7	-0.6	150	0.92
	HP	1473	0	29.3	12.2	-0.4	112	0.09
	J&K(UT) & Ladakh(UT)	2827	0	58.2	39.7	0.5	396	0.00
	Chandigarh	237	0	4.8	5.2	-0.4	15	0.00
	Railways NR ISTS	182	0	3.9	3.0	1.0	73	0.00
WR	Chhattisgarh	5618	0	129.8	75.2	-1.8	348	0.38
	Gujarat	21074	0	458.1	174.7	-1.4	708	0.00
	MP	11948	0	266.2	140.1	-2.7	490	0.00
	Maharashtra	28165	0	606.7	199.1	-0.2	655	0.00
	Goa	746	0	15.8	15.5	-0.1	94	0.00
	DNHDDPDCL	1271	0	29.6	30.1	-0.5	39	0.00
	AMNSIL	868	0	18.1	4.9	0.2	303	0.00
	BALCO	518	0	12.4	12.5	-0.1	5	0.00
	Andhra Pradesh	12133	0	246.5	106.1	1.3	494	0.00
	Telangana	12674	0	251.7	117.2	0.9	571	0.00
SR	Karnataka	15752	0	307.8	120.4	0.6	913	0.00
	Kerala	4893	0	103.3	74.8	0.2	203	0.00
	Tamil Nadu	19087	0	409.4	257.0	-0.5	523	0.00
	Puducherry	461	0	10.3	10.1	-0.5	32	0.00
	Bihar	6456	364	127.7	119.7	0.6	407	2.79
ER	DVC	3714	0	80.6	-45.7	1.7	389	0.00
	Jharkhand	1857	0	35.9	31.5	-4.4	143	1.40
	Odisha	7192	0	141.7	64.0	-2.5	361	0.00
	West Bengal	11298	0	242.1	104.0	-2.3	367	0.00
	Sikkim	98	0	1.6	1.4	0.2	67	0.00
NER	Arunachal Pradesh	128	0	2.4	2.4	-0.1	47	0.00
	Assam	1802	0	32.9	27.9	-1.1	182	0.00
	Manipur	207	4	2.9	2.7	0.2	36	0.04
	Meghalaya	269	76	4.8	3.2	0.2	48	1.76
	Mizoram	112	0	2.0	1.5	-0.2	20	0.00
	Nagaland	145	0	3.0	2.6	0.5	16	0.00
	Tripura	334	0	6.3	5.4	0.5	78	0.00

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

	Bhutan	Nepal	Bangladesh	Godda -> Bangladesh
Actual (MU)	4.1	-11.3	-25.5	-17.9
Day Peak (MW)	326.0	-606.5	-1101.0	-774.8

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	89.7	-261.5	213.0	-45.0	3.9	0.0
Actual(MU)	74.0	-254.5	228.5	-55.4	4.8	-2.7
O/D/U/D(MU)	-15.7	7.0	15.5	-10.4	0.9	-2.7

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL	% Share
Central Sector	2505	11072	2748	640	425	17391	48
State Sector	5430	8202	2828	2240	252	18951	52
Total	7935	19274	5576	2880	677	36341	100

G. Sourcewise generation (Gross) (MU)

	NR	WR	SR	ER	NER	All India	% Share
Coal	821	1583	770	715	17	3906	75
Lignite	25	15	67	0	0	107	2
Hydro	188	46	78	48	9	369	7
Nuclear	30	35	69	0	0	134	3
Gas, Naptha & Diesel	42	50	6	0	30	129	2
RES (Wind, Solar, Biomass & Others)	156	184	192	3	1	536	10
Total	1262	1913	1183	767	56	5181	100

Share of RES in total generation (%)	12.40	9.62	16.22	0.41	1.74	10.35
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	29.65	13.84	28.64	6.73	16.86	20.05

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.054
Based on State Max Demands	1.083

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: 20-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	-	2	95	0.0	2.0	-2.0	
3	765 kV	GAYA-VARANASI	2	263	302	0.0	0.5	-0.5	
4	765 kV	SASARAM-FATEHPUR	1	118	203	0.0	0.9	-0.9	
5	765 kV	GAYA-BALIA	1	0	472	0.0	7.0	-7.0	
6	400 kV	PUSAULI-VARANASI	1	0	155	0.0	2.4	-2.4	
7	400 kV	MUZAFFARPUR-GORAKHPUR	2	356	361	0.0	0.3	-0.3	
8	400 kV	PATNA-BALIA	2	0	389	0.0	5.7	-5.7	
9	400 kV	NAUBATPUR-BALIA	2	0	388	0.0	5.4	-5.4	
10	400 kV	BIHARSHARIFE-BALIA	2	111	106	0.0	3.7	-3.7	
11	400 kV	MOTIHARI-GORAKHPUR	2	118	342	0.0	3.2	-3.2	
12	400 kV	BIHARSHARIFE-VARANASI	2	181	102	0.0	0.6	-0.6	
13	220 kV	SAHUPUR-KARAMANASA	1	0	183	0.0	3.3	-3.3	
14	132 kV	NAGAR-UNTARIBHAND	1	0	0	0.0	0.0	0.0	
15	132 kV	GARIWAH-RIHAND	1	25	0	0.5	0.0	0.5	
16	132 kV	KARMANASA-SAHUPURI	1	0	13	0.0	0.0	0.0	
17	132 kV	KARMANASA-CHANDAUJI	1	0	0	0.0	0.0	0.0	
						ER-NR	0.5	33.9	-33.4
Import/Export of ER (With WR)									
1	765 kV	JHARSUGUDA-DHARAMJAGARH	4	2112	0	32.5	0.0	32.5	
2	765 kV	NEW RANCHI-DHARAMJAGARH	2	1310	0	14.6	0.0	14.6	
3	765 kV	JHARSUGUDA-DURG	2	0	628	0.0	8.6	-8.6	
4	400 kV	JHARSUGUDA-RAIGARH	4	0	449	0.0	6.3	-6.3	
5	400 kV	RANCHI-SIPA	2	233	141	2.2	0.0	2.2	
6	220 kV	BUDHIPADAR-RAIGARH	1	0	90	0.0	1.1	-1.1	
7	220 kV	BUDHIPADAR-KORBA	2	128	0	1.9	0.0	1.9	
						ER-WR	51.2	16.0	35.3
Import/Export of ER (With SR)									
1	HVDC	JEYPORE-GAZUWAKA B/B	2	0	654	0.0	15.1	-15.1	
2	HVDC	TALCHER-KOLAR BIPOLE	2	0	1646	0.0	39.6	-39.6	
3	765 kV	ANGUL-SRIKAKULAM	2	0	3055	0.0	55.4	-55.4	
4	400 kV	TALCHER-I/C	2	259	0	4.3	0.0	4.3	
5	220 kV	BALIMELA-UPPER-SILERRU	1	0	0	0.0	0.0	0.0	
						ER-SR	0.0	110.1	-110.1
Import/Export of ER (With NER)									
1	400 kV	BINAGURI-BONGAIGAON	2	128	101	1.3	0.3	1.0	
2	400 kV	ALIPURDUAR-BONGAIGAON	2	600	224	4.6	0.0	4.6	
3	220 kV	ALIPURDUAR-SALAKATI	2	133	34	1.7	0.0	1.7	
						ER-NER	7.6	0.3	7.3
Import/Export of NER (With NR)									
1	HVDC	BISWANATH CHARIALI-AGRA	2	484	0	10.7	0.0	10.7	
						NER-NR	10.7	0.0	10.7
Import/Export of WR (With NR)									
1	HVDC	GHAMA-KURUKSHETRA	2	0	1204	0.0	34.8	-34.8	
2	HVDC	VINDHYACHAL-B/B	2	229	0	6.1	0.0	6.1	
3	HVDC	MUNDRA-MOHINDERGARH	2	0	787	0.0	13.2	-13.2	
4	765 kV	GWALIOR-AGRA	2	411	1790	0.4	17.7	-17.2	
5	765 kV	GWALIOR-PHAGI	2	601	1086	1.9	11.2	-9.3	
6	765 kV	JABALPUR-ORAI	2	173	760	0.0	10.5	-10.5	
7	765 kV	GWALIOR-ORAI	1	742	0	0.0	12.1	12.1	
8	765 kV	SATNA-ORAI	1	0	762	0.0	14.4	-14.4	
9	765 kV	BANASKANTHA-CHITORGARH	2	2371	0	25.6	0.0	25.6	
10	765 kV	VINDHYACHAL-VARANASI	2	0	2649	0.0	38.7	-38.7	
11	400 kV	ZERDA-KANKROLI	1	11	406	0.0	4.7	-4.7	
12	400 kV	ZERDA-BHINMAL	1	670	0	6.4	0.0	6.4	
13	400 kV	VINDHYACHAL-RIHAND	1	952	0	21.6	0.0	21.6	
14	400 kV	RAPPESHUJAI-PUR	2	609	353	5.1	1.5	3.6	
15	220 kV	BHANPUR-RANPUR	1	0	0	0.0	0.0	0.0	
16	220 kV	BHANPUR-SHORAK	1	0	30	0.0	0.0	0.0	
17	220 kV	MEHGAON-AURAIYA	1	112	0	1.8	0.0	1.8	
18	220 kV	MALANPUR-AURAIYA	1	94	0	1.4	0.0	1.4	
19	132 kV	GWALIOR-SAWAI MADHOPUR	1	0	0	0.0	0.0	0.0	
20	132 kV	BALGHATI-LALITPUR	2	0	0	0.0	0.0	0.0	
						WR-NR	87.1	141.9	-54.8
Import/Export of WR (With SR)									
1	HVDC	BHADRAWATI B/B	-	0	1016	0.0	20.4	-20.4	
2	HVDC	RAIGARH-PUGAULUR	2	0	6016	0.0	94.2	-94.2	
3	765 kV	KOLHAPUR-RAICHUR	2	229	1935	0.1	17.9	-17.8	
4	765 kV	MARDHA-SIZAMABAD	2	0	3450	0.0	53.9	-53.9	
5	400 kV	KOLHAPUR-KUDGI	2	1164	0	19.6	0.0	19.6	
6	220 kV	KOLHAPUR-CHIKODI	2	0	0	0.0	0.0	0.0	
7	220 kV	PONDA-AMBEWADI	1	0	0	0.0	0.0	0.0	
8	220 kV	NELDEM-AMBEWADI	1	0	138	2.5	0.0	2.5	
						WR-SR	22.2	186.4	-164.2

INTERNATIONAL EXCHANGES			Import(+ve)/Export(-ve) Energy Exchange (MU)			
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 HEP 4*810MW)	206	-43	67	1.62
	ER	400kV TALA-BINAGURI 1,2,3 & 400kV MALBASE - BINAGURI i.e. BINAGURI RECEIPT (from TALA HEP 6*170MW)	409	34	174	4.17
	ER	200kV CHUKHA-BIRPARA 1&2 (& 220kV MALBASE - BIRPARA) i.e. BIRPARA RECEIPT (from CHUKHA HEP 4*84MW)	-165	98	-46	-1.10
	NER	132kV GELEPHU-SALAKATI	16	2	3	0.06
	NER	132kV MOTANGA-RANGIA	-53	-6	-28	-0.68
NEPAL	NR	132kV MAHENDRANAGAR-TANAKPUR(NHPC)	0	0	0	0.00
	ER	NEPAL IMPORT (FROM BIHAR)	-166	-16	-118	-2.83
BANGLADESH	ER	400kV DHALKEBAR-MUZAFFARPUR 1&2	-441	-266	-353	-8.47
	ER	BHERAMARA B/B HVDC (B'DESH)	-951	-843	-927	-22.25
	ER (Isolated from Indian Grid)	400kV GODDA_TPS-RAHANPUR (B'DESH) D/C	-775	-711	-745	-17.88
	NER	132kV COMILLA-SURAJMANI NAGAR 1&2	-150	0	-135	-3.24