



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: 31st March 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 30.03.2023.

महोदय/Dear Sir,

आईंईंजींसीं-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 30-मार्च -2023 की अखिल भारतीय प्रणाली की दैनिक ग्रीड निष्पादन रिपोर्ट रांभांप्रेंकें 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 30th March 2023, is available at the NLDC website.

धन्यवाद,

Report for previous day

Date of Reporting:

31-Mar-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 19:00 hrs; from RLDCs)	40871	57575	49536	21939	2644	172565
Peak Shortage (MW)	345	0	0	414	73	832
Energy Met (MU)	957	1390	1295	498	48	4187
Hydro Gen (MU)	112	41	68	28	11	259
Wind Gen (MU)	20	98	30	-	-	148
Solar Gen (MU)*	90.03	53.97	122.95	5.74	-	274
Energy Shortage (MU)	2.43	0.00	0.00	3.67	0.86	6.96
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	44320	64802	64156	22418	2730	195437
Time Of Maximum Demand Met (From NLDC SCADA)	11:21	10:56	11:45	18:40	18:02	11:21

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	0.099	1.76	2.86	5.98	10.60	60.09	29.31

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	5812	0	121.8	36.6	-0.4	173	0.35
	Haryana	5677	0	113.3	75.2	-2.2	228	0.00
	Rajasthan	10744	1	209.3	39.0	-4.0	356	1.71
	Delhi	3518	0	70.2	63.4	-1.7	143	0.00
	UP	14355	47	309.8	77.1	-2.8	301	0.31
	Uttarakhand	1986	0	36.2	29.8	-1.6	192	0.00
	HP	1748	0	33.4	23.4	0.0	75	0.06
	J&K(UT) & Ladakh(UT)	2832	0	56.8	49.1	-0.9	74	0.00
	Chandigarh	185	0	3.3	3.4	-0.1	13	0.00
	Railways NR ISTS	161	0	3.3	3.1	0.3	30	0.00
WR	Chhattisgarh	5001	0	114.6	61.8	0.1	315	0.00
	Gujarat	18881	0	401.6	200.2	-5.5	779	0.00
	MP	11425	0	231.2	127.2	-3.2	459	0.00
	Maharashtra	27404	0	570.6	191.4	0.5	1032	0.00
	Goa	647	0	13.1	13.3	-0.7	37	0.00
	DNHDDPDCL	1226	0	28.7	29.2	-0.5	28	0.00
	AMNSIL	811	0	17.9	9.3	0.1	317	0.00
	BALCO	513	0	12.3	12.4	-0.1	6	0.00
	Andhra Pradesh	11547	0	229.4	97.5	0.6	503	0.00
	Telangana	15497	0	297.3	159.3	1.9	626	0.00
SR	Karnataka	15662	0	297.1	123.2	-0.5	1160	0.00
	Kerala	4313	0	91.0	73.3	-0.4	165	0.00
	Tamil Nadu	17754	0	370.0	220.8	-0.4	740	0.00
	Puducherry	433	0	9.9	9.6	-0.5	14	0.00
	Bihar	5316	0	100.7	91.1	-0.8	291	0.55
ER	DVC	3513	0	74.4	49.7	0.3	447	0.00
	Jharkhand	1364	73	25.8	19.1	-1.9	101	3.12
	Odisha	5466	0	108.8	37.2	-0.3	365	0.00
	West Bengal	8776	0	186.4	43.8	-2.1	162	0.00
	Sikkim	103	0	1.7	1.2	0.5	71	0.00
NER	Arunachal Pradesh	163	0	2.4	2.8	-0.5	38	0.00
	Assam	1609	0	28.7	22.3	0.7	129	0.00
	Manipur	202	0	2.8	2.8	0.0	31	0.00
	Meghalaya	334	15	5.6	4.0	0.2	213	0.86
	Mizoram	118	0	1.8	1.6	-0.1	9	0.00
	Nagaland	129	0	2.2	2.2	-0.1	36	0.00
	Tripura	232	0	4.3	3.2	0.3	34	0.00

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

	Bhutan	Nepal	Bangladesh	Godda -> Bangladesh
Actual (MU)	-4.8	-12.6	-25.1	-18.2
Day Peak (MW)	-441.0	-580.5	-1066.0	-813.5

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	63.6	-163.1	248.7	-154.9	5.7	0.0
Actual(MU)	58.6	-169.8	254.2	-159.2	6.5	-9.7
O/D/U/D(MU)	-5.0	-6.7	5.5	-4.3	0.8	-9.7

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL	% Share
Central Sector	6107	12011	4378	1277	1038	24811	47
State Sector	11185	12468	2341	1510	333	27837	53
Total	17292	24479	6719	2787	1371	52647	100

G. Sourcewise generation (Gross) (MU)

	NR	WR	SR	ER	NER	All India	% Share
Coal	671	1415	720	726	11	3544	77
Lignite	27	20	67	0	0	115	2
Hydro	112	41	68	28	11	259	6
Nuclear	27	32	76	0	0	135	3
Gas, Naptha & Diesel	10	17	6	0	24	57	1
RES (Wind, Solar, Biomass & Others)	135	153	177	7	1	473	10
Total	982	1678	1115	761	47	4583	100
Share of RES in total generation (%)	13.72	9.14	15.85	0.93	2.03	12.27	
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	27.87	13.49	28.82	4.54	24.99	18.93	

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.015
Based on State Max Demands	1.051

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: 31-Mar-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-BB	2	3	296	0.0	5.0	-5.0	
3	765 kV	GAYA-VARANASI	2	0	653	0.0	10.0	-10.0	
4	765 kV	SASARAM-FAITEHPUR	1	0	407	0.0	8.2	-8.2	
5	765 kV	GAYA-BALIA	1	0	513	0.0	8.5	-8.5	
6	400 kV	PUSAULI-VARANASI	1	19	210	0.0	2.9	-2.9	
7	400 kV	PUSAULI-ALLAHABAD	1	27	150	0.0	2.0	-2.0	
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	237	524	0.0	3.5	-3.5	
9	400 kV	PATNA-BALIA	2	0	453	0.0	8.4	-8.4	
10	400 kV	NAUBATPUR-BALIA	2	0	475	0.0	8.0	-8.0	
11	400 kV	BIHARSHARIFF-BALIA	2	141	133	0.0	0.5	-0.5	
12	400 kV	MOTIHARI-GORAKHPUR	2	0	389	0.0	5.6	-5.6	
13	400 kV	BIHARSHARIFF-VARANASI	2	47	265	0.0	2.9	-2.9	
14	220 kV	SAHUPUR-KARAMANASA	1	0	167	0.0	2.5	-2.5	
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	0	0.0	0.0	0.0	
18	132 kV	KARMANASA-CHANDAULI	1	0	0	0.0	0.0	0.0	
						ER-NR	0.5	68.0	-67.5
Import/Export of ER (With WR)									
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	1009	29	10.4	0.0	10.4	
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	51	773	0.0	7.5	-7.5	
3	765 kV	JHARSUGUDA-ADURG	2	0	626	0.0	11.9	-11.9	
4	400 kV	JHARSUGUDA-RAIGARH	4	0	718	0.0	12.6	-12.6	
5	400 kV	RANCHI-SIPAT	2	0	276	0.0	3.9	-3.9	
6	220 kV	BUDHIPADAR-RAIGARH	1	0	130	0.0	1.9	-1.9	
7	220 kV	BUDHIPADAR-KORBA	2	70	46	0.2	0.0	0.2	
						ER-WR	10.6	37.8	-27.2
Import/Export of ER (With SR)									
1	HVDC	JHEKROBGA-ZUYAKA/B/B	2	0	550	0.0	12.7	-12.7	
2	HVDC	TALCHER-KOLAR BIPOLE	2	0	1790	0.0	43.1	-43.1	
3	765 kV	ANGUL-SRIKAKULAM	2	0	3073	0.0	62.2	-62.2	
4	400 kV	TALCHER-I/C	2	376	67	0.8	0.0	0.8	
5	220 kV	BALIMELA-UPPER-SILERRU	1	0	0	0.0	0.0	0.0	
						ER-SR	0.0	117.9	-117.9
Import/Export of ER (With NER)									
1	400 kV	BINAGURI-BONGAIGAON	2	99	130	0.5	0.4	0.2	
2	400 kV	ALIPURDUAR-BONGAIGAON	2	397	99	3.6	0.0	3.6	
3	220 kV	ALIPURDUAR-SALAKATI	2	44	13	0.5	0.0	0.5	
						ER-NER	4.6	0.4	4.2
Import/Export of NER (With NR)									
1	HVDC	BISWANATH CHARIALI-AGRA	2	468	0	11.7	0.0	11.7	
						NER-NR	11.7	0.0	11.7
Import/Export of WR (With NR)									
1	HVDC	CHAMPA-SURUSKETRA	2	0	1501	0.0	35.7	-35.7	
2	HVDC	VINDHYACHAL-B/B	2	446	0	12.1	0.0	12.1	
3	HVDC	MUNDRA-MOHINDERGARH	2	0	1000	23.3	0.0	23.3	
4	765 kV	GWALIOR-AGRA	2	217	1728	0.2	18.7	-18.6	
5	765 kV	GWALIOR-PHAGI	2	107	1609	0.1	22.5	-22.4	
6	765 kV	JABALPUR-ORAI	2	129	490	0.0	11.8	-11.8	
7	765 kV	GWALIOR-ORAI	1	949	0	16.9	0.0	16.9	
8	765 kV	SATNA-ORAI	1	0	849	0.0	17.2	-17.2	
9	765 kV	BANASKANTHA-CHITTORGARH	2	2186	0	32.8	0.0	32.8	
10	765 kV	VINDHYACHAL-VARANASI	2	0	1936	0.0	29.8	-29.8	
11	400 kV	ZERDA-KANEROLI	1	366	0	6.2	0.0	6.2	
12	400 kV	ZERDA-BHIMMAL	1	668	0	9.1	0.0	9.1	
13	400 kV	VINDHYACHAL-RIHAND	1	960	0	21.6	0.0	21.6	
14	400 kV	BAPP-SHULALPUR	2	578	224	2.6	0.9	1.7	
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	NETIGAOAN-AURAIYA	1	102	0	0.8	0.0	0.8	
18	220 kV	MALANPUR-AURAIYA	1	85	0	1.2	0.0	1.2	
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	126.9	136.5	-9.6
Import/Export of WR (With SR)									
1	HVDC	BHADRAWATI/B/B	2	0	1016	0.0	18.0	-18.0	
2	HVDC	BAIGRAH-PUGALUR	2	0	6026	0.0	99.6	-99.6	
3	765 kV	SOLAPUR-RAICHUR	2	0	1879	0.0	23.9	-23.9	
4	765 kV	WARDHA-NIZAMABAD	2	0	3332	0.0	61.2	-61.2	
5	400 kV	KOI HAPIR-KUDGI	2	850	0	12.9	0.0	12.9	
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	121	2.3	0.0	2.3	
						WR-SR	15.2	202.7	-187.6
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)	-199	-13	-104	-2.50			
	ER	400KV TALEX-BINAGURI 1,2,3 (& 400KV MALBASE - BINAGURI) I.e. BINAGURI RECEIPT (from TALA HEP 6*170MW)	203	-129	13	0.40			
	ER	220KV CHUKHA-BIRPARA 1&2 (& 220KV MALBASE - BIRPARA) I.e. BIRPARA RECEIPT (from CHUKHA HEP 4*84MW)	-160	-63	-117	-2.81			
	NER	132KV GELEPHU-SALAKATI	-22	-5	-14	-0.34			
	NER	132KV MOTANGA-RANGIA	0	0	0	0.00			
NEPAL	NR	132KV MAHENDRANAGAR-TANAKPUR(NHPC)	-70	0	-63	-1.52			
	ER	NEPAL IMPORT (FROM BIHAR)	-141	-81	-99	-2.37			
BANGLADESH	ER	400KV DHALKEBAR-MUZAFFARPUR 1&2	-370	-261	-362	-8.69			
	ER	BHERAMARA B/B HVDC (B'DESH)	-925	-915	-923	-22.14			
	ER (Isolated from Indian Grid)	400KV GODDA_TPS-RAHANPUR (B'DESH) D/C	-814	-759	-760	-18.25			
	NER	132KV COMILLA-SURAJMANI NAGAR 1&2	-141	0	-122	-2.92			