



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: 1st 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 31.03.2023.

महोदय/Dear Sir,

आई०ई०जी०सी०-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 31-मार्च -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 31st March 2023, is available at the NLDC website.

धन्यवाद,

Report for previous day

Date of Reporting:

01-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 19:00 hrs; from RLDCs)	41717	56585	50534	20798	2666	172300
Peak Shortage (MW)	0	0	0	0	39	39
Energy Met (MU)	890	1346	1287	463	47	4033
Hydro Gen (MU)	113	27	61	23	10	233
Wind Gen (MU)	10	103	39	-	-	152
Solar Gen (MU)*	126.50	62.91	129.71	4.77	0.85	325
Energy Shortage (MU)	0.04	0.00	0.00	0.07	0.56	0.67
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	42411	61847	62456	21566	2722	188213
Time Of Maximum Demand Met (From NLDC SCADA)	19:24	10:54	11:10	19:29	18:20	10:53

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	0.056	0.00	0.80	4.77	5.57	66.71	27.73

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	5935	0	121.0	44.4	-1.0	2749	0.00
	Haryana	5186	0	106.7	73.3	-0.8	3756	0.00
	Rajasthan	10037	0	188.9	36.9	-6.4	2634	0.00
	Delhi	3699	0	69.7	64.0	-2.2	3342	0.00
	UP	13544	0	272.3	62.5	-0.5	5662	0.00
	Uttarakhand	1703	0	34.5	27.1	-1.1	1406	0.04
	HP	1760	0	33.6	23.8	-0.7	1319	0.00
	J&K(UT) & Ladakh(UT)	2859	0	56.4	48.2	-0.4	2498	0.00
	Chandigarh	185	0	3.4	3.5	-0.2	185	0.00
	Railways NR ISTS	161	0	3.3	3.1	0.3	161	0.00
WR	Chhattisgarh	4755	0	105.8	56.1	-1.9	339	0.00
	Gujarat	17647	0	390.3	191.1	-2.6	575	0.00
	MP	10873	0	217.5	119.9	-3.4	386	0.00
	Maharashtra	26889	0	562.6	196.4	-0.8	861	0.00
	Goa	663	0	12.4	13.1	-1.2	47	0.00
	DNHDDPDCL	1201	0	27.5	28.4	-0.9	79	0.00
	AMNSIL	797	0	18.0	6.0	-0.1	253	0.00
	BALCO	513	0	12.2	12.4	-0.2	4	0.00
	Andhra Pradesh	11237	0	226.3	82.7	-1.1	469	0.00
	Telangana	14799	0	296.4	163.5	0.8	632	0.00
SR	Karnataka	15747	0	295.3	128.3	-1.4	1300	0.00
	Kerala	4360	0	90.6	75.2	-0.4	190	0.00
	Tamil Nadu	17384	0	369.2	222.4	-2.2	474	0.00
	Puducherry	427	0	9.1	9.8	-0.7	27	0.00
	Bihar	4886	0	93.6	86.2	-2.3	228	0.07
ER	DVC	3558	0	73.5	-46.2	-0.7	267	0.00
	Jharkhand	1312	0	27.5	22.4	-3.4	13	0.00
	Odisha	5737	0	105.5	39.5	-2.0	357	0.00
	West Bengal	7563	0	161.0	26.5	-2.9	95	0.00
	Sikkim	104	0	1.6	1.5	0.1	74	0.00
NER	Arunachal Pradesh	165	0	2.8	2.5	0.2	44	0.00
	Assam	1819	0	28.9	22.4	0.2	135	0.00
	Manipur	200	0	2.6	2.7	-0.1	23	0.00
	Meghalaya	314	40	5.7	4.1	0.4	41	0.56
	Mizoram	121	0	1.7	1.6	-0.1	21	0.00
	Nagaland	142	0	2.2	2.3	-0.2	12	0.00
	Tripura	235	0	3.4	3.0	-0.1	47	0.00

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

	Bhutan	Nepal	Bangladesh	Godda -> Bangladesh
Actual (MU)	-4.9	-11.4	-23.4	-16.8
Day Peak (MW)	-426.2	-578.3	-1064.0	-779.6

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	41.9	-164.2	262.3	-144.8	4.7	0.0
Actual(MU)	31.2	-163.3	273.5	-161.2	8.3	-11.5
O/D/U/D(MU)	-10.6	0.9	11.1	-16.4	3.5	-11.5

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL	% Share
Central Sector	5857	12971	3028	1077	425	23358	44
State Sector	12405	13228	2341	1510	297	29781	56
Total	18262	26199	5369	2587	722	53138	100

G. Sourcewise generation (Gross) (MU)

	NR	WR	SR	ER	NER	All India	% Share
Coal	588	1359	676	703	9	3336	68
Lignite	30	21	70	0	0	121	2
Hvdro	113	28	61	23	10	235	5
Nuclear	30	32	76	0	0	139	3
Gas, Naptha & Diesel	10	15	463	0	25	513	11
RES (Wind, Solar, Biomass & Others)	161	168	196	6	1	531	11
Total	932	1623	1543	733	45	4874	100
Share of RES in total generation (%)	17.24	10.33	12.69	0.81	1.90	10.89	
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	32.67	14.01	21.61	4.00	23.30	18.56	

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.015
Based on State Max Demands	1.055

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)

INTER-REGIONAL EXCHANGES

Import=(+ve)/Export =(-ve) for NET (MU)
Date of Reporting: 01-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-BB	2	2	296	0.0	5.0	-5.0	
3	765 kV	GAYA-VARANASI	2	377	870	0.0	8.9	-8.9	
4	765 kV	SASARAM-FAITEHPUR	1	0	548	0.0	8.2	-8.2	
5	765 kV	GAYA-BALIA	1	0	531	0.0	6.9	-6.9	
6	400 kV	PUSAULI-VARANASI	1	75	225	0.0	2.9	-2.9	
7	400 kV	PUSAULI-ALLAHABAD	1	114	175	0.0	2.0	-2.0	
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	421	563	0.0	1.8	-1.8	
9	400 kV	PATNA-BALIA	2	50	491	0.0	6.3	-6.3	
10	400 kV	NAUBATPUR-BALIA	2	83	519	0.0	6.4	-6.4	
11	400 kV	BIHARSHARIFF-BALIA	2	348	199	2.0	0.0	2.0	
12	400 kV	MOTIHARI-GORAKHPUR	2	79	456	0.0	5.1	-5.1	
13	400 kV	BIHARSHARIFF-VARANASI	2	197	308	0.0	1.8	-1.8	
14	220 kV	SAHUPUR-KARAMANASA	1	3	129	0.0	0.0	0.0	
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	25	0.0	0.0	0.0	
18	132 kV	KARMANASA-CHANDAUJI	1	0	135	0.0	0.0	0.0	
						ER-NR	2.5	55.3	-52.8
Import/Export of ER (With WR)									
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	1406	159	12.3	0.0	12.3	
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	68	1361	0.0	14.5	-14.5	
3	765 kV	JHARSUGUDA-RUR	2	0	998	0.0	16.4	-16.4	
4	400 kV	JHARSUGUDA-RAIGARH	4	0	714	0.0	9.8	-9.8	
5	400 kV	RANCHI-SIPAT	2	39	396	0.0	3.9	-3.9	
6	220 kV	BUDHIPADAR-RAIGARH	1	28	125	0.0	1.2	-1.2	
7	220 kV	BUDHIPADAR-KORBA	1	136	37	1.3	0.0	1.3	
						ER-WR	13.6	45.7	-32.1
Import/Export of ER (With SR)									
1	HVDC	JEKYONGGA/ZUYAKA/B/B	2	0	550	0.0	12.6	-12.6	
2	HVDC	TALCHER-KOLAR BIPOLE	2	0	1986	0.0	44.0	-44.0	
3	765 kV	ANGUL-SRIKAKULAM	2	0	3028	0.0	63.4	-63.4	
4	400 kV	TALCHER-I/C	2	206	915	0.0	0.6	-0.6	
5	220 kV	BALIMELA-UPPER-SILERRU	1	0	0	0.0	0.0	0.0	
						ER-SR	0.0	120.1	-120.1
Import/Export of ER (With NER)									
1	400 kV	BINAGURI-BONGAIGAON	2	166	354	0.7	3.5	-2.8	
2	400 kV	ALIPURDUAR-BONGAIGAON	2	340	449	0.0	2.1	-2.1	
3	220 kV	ALIPURDUAR-SALAKATI	2	69	79	0.1	0.0	0.1	
						ER-NER	0.8	5.6	-4.8
Import/Export of NER (With NR)									
1	HVDC	BISWANATH CHARIALI-AGRA	2	466	0	3.6	0.0	3.6	
						NER-NR	3.6	0.0	3.6
Import/Export of WR (With NR)									
1	HVDC	CHAMPA-KURUSHETRA	2	0	1502	0.0	35.8	-35.8	
2	HVDC	VINDHYACHAL-B/B	2	446	0	12.2	0.0	12.2	
3	HVDC	MUNDRA-MOHINDERGARH	2	0	1000	23.3	0.0	23.3	
4	765 kV	GWALIOR-AGRA	2	369	1627	0.4	15.3	-15.0	
5	765 kV	GWALIOR-PHAGI	2	596	1699	1.6	21.3	-19.6	
6	765 kV	JABALPUR-ORAI	2	207	520	0.0	6.3	-6.3	
7	765 kV	GWALIOR-ORAI	1	862	0	15.0	0.0	15.0	
8	765 kV	SATNA-ORAI	1	0	891	0.0	15.7	-15.7	
9	765 kV	BANASKANTHA-CHITTOGARH	2	2177	0	31.3	0.0	31.3	
10	765 kV	VINDHYACHAL-VARANASI	2	0	1678	0.0	22.7	-22.7	
11	400 kV	ZERDA-KANEROLI	1	394	0	6.5	0.0	6.5	
12	400 kV	ZERDA-BHIMMAL	1	718	0	10.1	0.0	10.1	
13	400 kV	VINDHYACHAL-RIHAND	1	967	0	21.8	0.0	21.8	
14	400 kV	BAPP-SHULIAPUR	2	703	208	5.8	0.6	5.2	
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	112	8	0.9	0.0	0.9	
18	220 kV	MALANPUR-AURAIYA	1	99	11	1.1	0.0	1.1	
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	129.9	117.6	12.3
Import/Export of WR (With SR)									
1	HVDC	BHADRAWATI/B/B	2	0	1012	0.0	19.1	-19.1	
2	HVDC	RAIGARH-PUGALUR	2	0	6025	0.0	124.5	-124.5	
3	765 kV	SOLAPUR-RAICHUR	2	107	1608	0.0	19.5	-19.5	
4	765 kV	WARDHA-NIZAMABAD	2	0	3537	0.0	62.3	-62.3	
5	400 kV	KOI HAPIR-KUDGI	2	918	0	15.4	0.0	15.4	
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	122	2.3	0.0	2.3	
						WR-SR	17.8	225.4	-207.6
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)		-190	88	-92	-2.21		
	ER	400KV TALEX-BINAGURI 1,2,3 (& 400KV MALBASE - BINAGURI) I.e. BINAGURI RECEIPT (from TALA HEP 6*170MW)		200	-135	24	0.57		
	ER	220KV CHUKHA-BIRPARA 1&2 (& 220KV MALBASE - BIRPARA) I.e. BIRPARA RECEIPT (from CHUKHA HEP 4*84MW)		-176	-69	-129	-3.10		
	NER	132KV GELEPHU-SALAKATI		-22	-1	-7	-0.17		
	NER	132KV MOTANGA-RANGIA		0	0	0	0.00		
NEPAL	NR	132KV MAHENDRANAGAR-TANAKPUR(NHPC)		0	0	0	-1.40		
	ER	NEPAL IMPORT (FROM BIHAR)		-98	-36	-72	-1.74		
BANGLADESH	ER	400KV DHALKEBAR-MUZAFFARPUR 1&2		-406	-217	-344	-8.25		
	ER	BHERAMARA B/B HVDC (B'DESH)		-925	-544	-875	-20.99		
	ER (Isolated from Indian Grid)	400KV GODDA_TPS-RAHANPUR (B'DESH) D/C		-780	-558	-699	-16.77		
	NER	132KV COMILLA-SURAJMANI NAGAR 1&2		-139	0	-101	-2.43		