



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: 28th 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 27.03.2023.

महोदय/Dear Sir,

आई०ई०जी०सी०-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 27-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 27th March 2023, is available at the NLDC website.

धन्यवाद,

Report for previous day

Date of Reporting: 28-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)	47886	59207	49836	22804	2574	182307
Peak Shortage (MW)	1326	0	0	533	0	1859
Energy Met (MU)	976	1371	1234	485	46	4112
Hydro Gen (MU)	120	33	67	33	10	263
Wind Gen (MU)	10	67	36	-	-	113
Solar Gen (MU)*	141.67	68.55	130.14	2.64	0.92	344
Energy Shortage (MU)	3.98	0.00	0.00	2.47	0.17	6.62
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	48727	62938	60040	23028	2625	188914
Time Of Maximum Demand Met (From NLDC SCADA)	19:12	10:27	11:53	18:50	18:30	10:38

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	0.057	0.00	0.93	7.35	8.27	70.35	21.37

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	5988	0	122.6	35.8	0.2	234	1.73
	Haryana	6063	0	118.7	79.8	-0.5	243	0.00
	Rajasthan	11276	0	221.4	52.5	-1.4	238	1.24
	Delhi	3566	0	69.6	67.8	-0.4	236	0.00
	UP	17327	0	309.0	65.2	0.2	489	0.00
	Uttarakhand	1926	0	37.4	27.4	0.5	142	0.74
	HP	1862	0	33.1	21.6	0.5	116	0.22
	J&K(UT) & Ladakh(UT)	2849	0	57.5	49.2	-0.2	110	0.05
	Chandigarh	182	0	3.2	3.3	-0.1	14	0.00
	Railways NR ISTS	158	0	3.3	3.1	0.3	27	0.00
WR	Chhattisgarh	4933	0	107.9	57.7	-1.1	204	0.00
	Gujarat	18619	0	403.3	219.2	-1.0	993	0.00
	MP	11009	0	225.2	111.7	-1.8	360	0.00
	Maharashtra	26907	0	561.2	182.2	-0.1	842	0.00
	Goa	677	0	14.4	12.9	1.0	54	0.00
	DNHDDPDCL	1267	0	28.8	29.0	-0.2	33	0.00
	AMNSIL	783	0	17.5	9.9	0.5	297	0.00
	BALCO	515	0	12.3	12.4	-0.1	511	0.00
	Andhra Pradesh	10643	0	218.6	88.6	0.1	416	0.00
	Telangana	13938	0	277.1	141.9	1.3	512	0.00
SR	Karnataka	15110	0	290.5	123.6	-1.4	1131	0.00
	Kerala	4353	0	89.4	73.2	-0.5	188	0.00
	Tamil Nadu	16713	0	349.3	212.0	-2.2	458	0.00
	Puducherry	441	0	9.6	9.5	-0.7	22	0.00
	Bihar	5079	0	96.9	86.0	-1.6	303	0.62
ER	DVC	3597	0	76.1	-45.9	-0.2	293	0.00
	Jharkhand	1396	0	29.4	23.0	-2.1	72	1.85
	Odisha	5525	0	117.2	38.0	-1.8	327	0.00
	West Bengal	7970	0	164.2	199.0	-2.4	169	0.00
	Sikkim	103	0	1.5	1.5	0.0	67	0.00
	Arunachal Pradesh	139	0	2.6	2.7	-0.1	39	0.00
NER	Assam	1500	0	26.4	20.9	-0.1	90	0.00
	Manipur	190	0	2.3	2.6	-0.3	34	0.00
	Meghalaya	374	0	6.2	4.8	-0.1	47	0.17
	Mizoram	116	0	1.7	1.6	-0.2	13	0.00
	Nagaland	134	0	2.1	2.2	-0.1	12	0.00
Tripura	245	0	4.9	3.2	0.3	71	0.00	

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

	Bhutan	Nepal	Bangladesh	Godda -> Bangladesh
Actual (MU)	-1.0	-12.0	-23.5	-15.6
Day Peak (MW)	-247.3	-592.9	-1076.0	-772.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	57.7	-140.8	224.2	-148.1	7.0	0.0
Actual(MU)	52.2	-133.8	230.1	-160.0	6.5	-5.1
O/D/U/D(MU)	-5.5	7.0	5.9	-12.0	-0.5	-5.1

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL	% Share
Central Sector	7665	13881	4728	2237	1188	29699	50
State Sector	10795	12686	3896	2050	356	29782	50
Total	18460	26567	8624	4287	1544	59481	100

G. Sourcewise generation (Gross) (MU)

	NR	WR	SR	ER	NER	All India	% Share
Coal	642	1377	664	710	10	3405	76
Lignite	29	19	71	0	0	120	3
Hydro	120	33	67	33	10	263	6
Nuclear	25	32	76	0	0	133	3
Gas, Naptha & Diesel	4	15	6	0	24	49	1
RES (Wind, Solar, Biomass & Others)	176	137	193	3	1	511	11
Total	997	1614	1078	746	45	4481	100

Share of RES in total generation (%)	17.70	8.51	17.93	0.43	2.04	11.41
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	32.19	12.52	31.23	4.85	24.67	20.24

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.045
Based on State Max Demands	1.077

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: 28-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-B/B	-	0	297	0.0	7.5	-7.5	
3	765 kV	GAYA-VARANASI	2	43	762	0.0	11.2	-11.2	
4	765 kV	SASARAM-FAITEHPUR	1	0	453	0.0	7.5	-7.5	
5	765 kV	GAYA-BALIA	1	0	614	0.0	9.5	-9.5	
6	400 kV	PUSAULI-VARANASI	1	0	206	0.0	4.0	-4.0	
7	400 kV	PUSAULI-ALLAHABAD	1	0	196	0.0	3.2	-3.2	
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	213	702	0.0	5.9	-5.9	
9	400 kV	PATNA-BALIA	2	0	461	0.0	7.2	-7.2	
10	400 kV	NAUBATTI-R-BALIA	2	0	481	0.0	7.2	-7.2	
11	400 kV	BIHARSHARIFE-BALIA	2	119	254	0.0	1.3	-1.3	
12	400 kV	MOTIHARI-GORAKHPUR	2	8	422	0.0	5.4	-5.4	
13	400 kV	BIHARSHARIFE-VARANASI	2	134	310	0.0	2.8	-2.8	
14	220 kV	SAHUPUR-BAKRAMANASA	1	0	166	0.0	2.3	-2.3	
15	132 kV	NAGARUNTARI-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	16	0.0	0.0	0.0	
18	132 kV	KARMANASA-CHANDALI	1	0	0	0.0	0.0	0.0	
						ER-NR	0.5	74.7	-74.2
Import/Export of ER (With WR)									
1	765 kV	JHARSGUDA-DHARAMJIAGARH	4	814	374	4.4	0.0	4.4	
2	765 kV	NEW RANCHI-DHARAMJIAGARH	2	444	951	0.0	7.6	-7.6	
3	765 kV	JHARSGUDA-DURG	2	0	628	0.0	12.3	-12.3	
4	400 kV	JHARSGUDA-RAIGARH	4	0	616	0.0	11.2	-11.2	
5	400 kV	RANCHI-SIPA	2	33	274	0.0	2.8	-2.8	
6	220 kV	BUDDHAPADAR-RAIGARH	1	0	150	0.0	2.7	-2.7	
7	220 kV	BUDDHAPADAR-KORBA	2	44	58	0.0	0.4	-0.4	
						ER-WR	4.4	36.8	-32.4
Import/Export of ER (With SR)									
1	HVDC	JEYPORE-GAZIWAKA B/B	2	0	548	0.0	12.5	-12.5	
2	HVDC	TALCHER-KOLARIPPOLE	2	0	1688	0.0	40.8	-40.8	
3	765 kV	ANGUL-SRIKAKULAM	2	0	2950	0.0	56.9	-56.9	
4	400 kV	TALCHER-I/C	2	204	0	3.7	0.0	3.7	
5	220 kV	BALIMELA-UPPER-SILERRU	1	0	0	0.0	0.0	0.0	
						ER-SR	0.0	110.2	-110.2
Import/Export of ER (With NER)									
1	400 kV	BINAGURI-BONGAIGAOON	2	143	126	1.0	0.5	0.5	
2	400 kV	ALIPURDUAR-BONGAIGAOON	2	484	297	3.7	0.0	3.7	
3	220 kV	ALIPURDUAR-SALAKATI	2	53	27	0.4	0.0	0.4	
						ER-NER	5.1	0.5	4.6
Import/Export of NER (With NR)									
1	HVDC	BISWANATH CHARIALLAGRA	2	482	0	11.0	0.0	11.0	
						NER-NR	11.0	0.0	11.0
Import/Export of WR (With NR)									
1	HVDC	CHAMPAKURUKSHETRA	2	0	997	0.0	14.9	-14.9	
2	HVDC	VINDHYACHAL-B/B	-	444	0	8.7	0.0	8.7	
3	HVDC	MUNDRA-MOHINDERGARH	2	0	1000	0.0	19.3	-19.3	
4	765 kV	GWALIOR-AGRA	2	114	2138	0.0	20.0	-20.0	
5	765 kV	GWALIOR-PHAGI	2	241	2065	0.0	28.2	-28.2	
6	765 kV	JABALPUR-ORAI	2	91	913	0.0	15.8	-15.8	
7	765 kV	GWALIOR-ORAI	1	1096	0	19.3	0.0	19.3	
8	765 kV	SATNA-ORAI	1	0	924	0.0	17.1	-17.1	
9	765 kV	BANASKANTHA-CHITORGARH	2	2683	0	40.9	0.0	40.9	
10	765 kV	VINDHYACHAL-VARANASI	2	0	2459	0.0	30.6	-30.6	
11	400 kV	ZERDA-KANKROLI	1	463	0	7.1	0.0	7.1	
12	400 kV	ZERDA-BHINMAL	1	821	0	10.5	0.0	10.5	
13	400 kV	VINDHYACHAL-RIHAND	1	966	0	21.6	0.0	21.6	
14	400 kV	RAPS-SHILAPUR	2	542	548	3.5	3.7	-0.1	
15	220 kV	BHANPURA-BANPUR	1	0	0	0.0	0.0	0.0	
16	220 kV	BHANPURA-MORAK	1	0	30	0.0	-0.9	-0.9	
17	220 kV	MEHGAON-AURAIYA	1	116	0	0.9	0.0	0.9	
18	220 kV	MALANPUR-AURAIYA	1	99	12	1.2	0.0	1.2	
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	133.5	132.0	1.5
Import/Export of WR (With SR)									
1	HVDC	BHADRAWATI-B/B	-	0	1016	0.0	23.9	-23.9	
2	HVDC	BAHARH-PUGAUR	2	0	5520	0.0	95.6	-95.6	
3	765 kV	KOLHAPUR-RAICHUR	2	543	1555	0.4	15.9	-15.5	
4	765 kV	WARDHA-NIZAMABAD	2	0	3009	0.0	50.4	-50.4	
5	400 kV	KOLHAPUR-KUDGI	2	1052	0	17.1	0.0	17.1	
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	1	133	1.0	0.0	1.0	
						WR-SR	18.5	185.7	-167.2
INTERNATIONAL EXCHANGES									
						Import(+ve)/Export(-ve)			
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 4180MW)	-151	59	-42	-1.20			
	ER	400kV TALA-BINAGURI 1,2,4 (& 400kV MALBASE - BINAGURI) I.e. BINAGURI RECEIPT (from TALA HEP 6170MW)	189	-107	90	2.14			
	ER	220kV CHUKHA-BIRPARA 1&2 (& 220kV MALBASE - BIRPARA) I.e. BIRPARA RECEIPT (from CHUKHA HEP 4384MW)	-149	-53	-96	-2.31			
	NER	132kV GELEPHU-SALAKATI	19	-4	8	0.20			
NEPAL	NER	132kV MOTANGA-RANGIA	0	0	0	0.00			
	NR	132kV MAHENDRANAGAR-TANAKPUR(NHPC)	-75	0	-64	-1.54			
BANGLADESH	ER	400kV DHALKEBAR-MUZAFFARPUR 1&2	-373	-200	-345	-8.27			
	ER (Isolated from Indian Grid)	BHERAMARA B/B HVDC (B'DESH)	-912	-798	-888	-21.32			
BANGLADESH	ER (Isolated from Indian Grid)	400kV GODDA_TPS-RAHANPUR (B'DESH) D/C	-772	0	-651	-15.63			
	NER	132kV COMILLA-SURAJMANI NAGAR 1&2	-164	0	-92	-2.20			