



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 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 27.04.2023.

महोदय/Dear Sir,

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

धन्यवाद,

Report for previous day

Date of Reporting: 28-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)	52217	58439	49111	23678	2867	186312
Peak Shortage (MW)	80	0	0	0	18	98
Energy Met (MU)	1212	1392	1175	529	53	4361
Hydro Gen (MU)	179	27	76	37	8	327
Wind Gen (MU)	15	70	32	-	-	116
Solar Gen (MU)*	100.29	63.97	109.48	2.53	1.16	277
Energy Shortage (MU)	0.24	0.00	0.00	1.11	1.52	2.87
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	54108	64466	55896	24205	2908	196240
Time Of Maximum Demand Met (From NLDC SCADA)	00:00	15:11	11:22	00:01	18:41	15:00

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	0.055	0.03	0.96	8.99	9.99	71.65	18.37

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	7153	0	153.1	34.5	-1.0	107	0.00
	Haryana	7615	0	159.3	100.8	-2.0	272	0.00
	Rajasthan	13190	0	265.1	81.7	-4.9	271	0.00
	Delhi	4626	0	94.1	88.2	-3.2	24	0.04
	UP	18966	0	406.8	153.3	-1.1	359	0.00
	Uttarakhand	2023	0	43.2	26.4	-0.7	193	0.08
	HP	1576	4	30.0	14.4	-0.6	75	0.05
	J&K(UT) & Ladakh(UT)	2839	0	52.5	36.2	0.0	169	0.07
	Chandigarh	218	0	4.5	4.8	-0.3	12	0.00
	Railways NR ISTS	171	0	3.8	3.2	0.6	42	0.00
WR	Chhattisgarh	4791	0	107.2	51.9	-2.3	187	0.00
	Gujarat	21064	0	447.3	217.6	-1.3	633	0.00
	MP	10210	0	210.8	101.5	-1.7	541	0.00
	Maharashtra	25976	0	551.1	204.8	-2.5	758	0.00
	Goa	717	0	15.3	15.2	-0.5	45	0.00
	DNHDDPDCL	1238	0	28.3	28.4	-0.1	54	0.00
	AMNSIL	857	0	19.2	8.3	0.1	294	0.00
	BALCO	520	0	12.4	12.4	0.0	9	0.00
	Andhra Pradesh	11505	0	232.9	95.8	-1.6	380	0.00
	Telangana	8623	0	177.9	55.9	-0.6	485	0.00
SR	Karnataka	15188	0	289.5	122.1	0.4	757	0.00
	Kerala	4366	0	90.1	70.4	-0.4	266	0.00
	Tamil Nadu	17282	0	374.6	231.6	-0.7	404	0.00
	Puducherry	453	0	9.9	10.0	-0.8	46	0.00
ER	Bihar	6055	0	114.8	105.6	-1.2	307	0.63
	DVC	3728	0	77.9	46.9	0.3	282	0.00
	Jharkhand	1719	0	32.8	27.1	-1.3	267	0.48
	Odisha	5874	0	119.9	42.3	-0.8	447	0.00
	West Bengal	8912	0	182.0	52.1	-4.8	293	0.00
	Sikkim	93	0	1.5	1.3	0.2	67	0.00
NER	Arunachal Pradesh	158	0	2.8	2.2	0.5	63	0.00
	Assam	1885	0	33.4	27.1	0.1	151	0.00
	Manipur	199	0	2.6	2.6	0.1	25	0.00
	Meghalaya	306	65	5.1	3.3	0.0	71	1.52
	Mizoram	119	0	1.9	1.4	-0.1	11	0.00
	Nagaland	152	0	2.4	2.4	0.0	10	0.00
	Tripura	267	0	4.9	4.6	0.2	85	0.00

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

	Bhutan	Nepal	Bangladesh	Godda -> Bangladesh
Actual (MU)	-3.4	-15.6	-16.0	-7.3
Day Peak (MW)	-229.1	-707.9	-1061.0	-546.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	159.3	-235.4	185.3	-114.2	4.9	0.0
Actual(MU)	152.9	-218.4	186.8	-130.6	6.0	-3.3
O/D/U/D(MU)	-6.4	17.0	1.4	-16.4	1.1	-3.3

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL	% Share
Central Sector	4537	7881	2788	1390	446	17042	43
State Sector	4735	10735	5256	1290	314	22330	57
Total	9272	18615	8044	2680	760	39371	100

G. Sourcewise generation (Gross) (MU)

	NR	WR	SR	ER	NER	All India	% Share
Coal	765	1491	708	704	16	3683	78
Lignite	26	21	58	0	0	104	2
Hydro	179	27	76	37	8	327	7
Nuclear	29	37	48	0	0	113	2
Gas, Naptha & Diesel	16	21	6	0	29	72	2
RES (Wind, Solar, Biomass & Others)	135	135	168	3	1	442	9
Total	1149	1731	1064	744	53	4740	100

Share of RES in total generation (%)	11.71	7.77	15.83	0.38	2.18	9.31
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	29.79	11.49	27.44	5.31	16.40	18.59

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.027
Based on State Max Demands	1.073

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-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	-	0	97	0.0	2.5	-2.5	
3	765 kV	GAYA-VARANASI	2	0	710	0.0	11.3	-11.3	
4	765 kV	SASARAM-FAZLIPUR	1	0	497	0.0	8.5	-8.5	
5	765 kV	GAYA-BALIA	1	0	583	0.0	11.3	-11.3	
6	400 kV	PUSAULI-VARANASI	1	15	65	0.0	0.4	-0.4	
7	400 kV	PUSAULI-ALLAHABAD	1	0	109	0.0	1.9	-1.9	
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	128	685	0.0	6.0	-6.0	
9	400 kV	PATNA-BALIA	2	0	536	0.0	10.5	-10.5	
10	400 kV	NALBATTI-R-BALIA	2	0	562	0.0	9.0	-9.0	
11	400 kV	BIHARSHARIFE-BALIA	2	166	289	0.0	1.0	-1.0	
12	400 kV	MOTIHARI-GORAKHPUR	2	0	440	0.0	6.8	-6.8	
13	400 kV	BIHARSHARIFE-VARANASI	2	5	331	0.0	4.2	-4.2	
14	220 kV	SAHUPUR-BAKRAMANASA	1	0	171	0.0	2.9	-2.9	
15	132 kV	NAGARUNTARI-RIHAND	1	1	0	0.0	0.0	0.0	
16	132 kV	GARWAH-RIHAND	1	25	0	0.4	0.0	0.4	
17	132 kV	KARMANASA-SAHUPURI	1	0	0	0.0	0.0	0.0	
18	132 kV	KARMANASA-CHANDAUJI	1	0	0	0.0	0.0	0.0	
						ER-NR	0.4	76.3	-75.9
Import/Export of ER (With WR)									
1	765 kV	JHARSUGUDA-DHARAMJIAGARH	4	1224	0	14.8	0.0	14.8	
2	765 kV	NEW RANCHI-DHARAMJIAGARH	2	706	700	2.8	0.0	2.8	
3	765 kV	JHARSUGUDA-DURG	2	0	532	0.0	8.9	-8.9	
4	400 kV	JHARSUGUDA-RAIGARH	4	0	564	0.0	8.4	-8.4	
5	400 kV	RANCHI-SIPAT	2	160	106	0.0	0.3	-0.3	
6	220 kV	BUDDHIPADAR-RAIGARH	1	0	56	0.0	1.5	-1.5	
7	220 kV	BUDDHIPADAR-KORBA	2	83	0	1.1	0.0	1.1	
						ER-WR	18.7	19.1	-0.4
Import/Export of ER (With SR)									
1	HVDC	JEYPORE-GAZIWAKA B/B	2	0	548	0.0	11.9	-11.9	
2	HVDC	TALCHER-KOLARIPPLE	2	0	1643	0.0	39.6	-39.6	
3	765 kV	ANGUL-SRIKAKULAM	2	0	2810	0.0	55.4	-55.4	
4	400 kV	TALCHER-I/C	2	258	0	4.9	0.0	4.9	
5	220 kV	BALIMELA-UPPER-SILERRU	1	0	0	0.0	0.0	0.0	
						ER-SR	0.0	106.9	-106.9
Import/Export of ER (With NER)									
1	400 kV	BINAGURI-BONGAIGAOIN	2	111	69	0.6	0.2	0.4	
2	400 kV	ALIPURDUAR-BONGAIGAOIN	2	440	95	3.8	0.0	3.8	
3	220 kV	ALIPURDUAR-SALAKATI	2	93	10	1.0	0.0	1.0	
						ER-NER	5.4	0.2	5.2
Import/Export of NER (With NR)									
1	HVDC	BISWANATH CHARIALI-AGRA	2	482	0	11.5	0.0	11.5	
						NER-NR	11.5	0.0	11.5
Import/Export of WR (With NR)									
1	HVDC	CHAMPA-KURUKSHETRA	2	0	1506	0.0	34.9	-34.9	
2	HVDC	VINDHYACHAL-B/B	-	441	0	13.1	0.0	13.1	
3	HVDC	MUNDRA-MOHINDERGARH	2	0	304	0.0	7.2	-7.2	
4	765 kV	GWALIOR-AGRA	2	0	2061	0.0	31.0	-31.0	
5	765 kV	GWALIOR-PHAGI	2	0	1515	0.0	36.0	-36.0	
6	765 kV	JABALPUR-ORAI	2	0	783	0.0	22.9	-22.9	
7	765 kV	GWALIOR-ORAI	1	858	0	17.4	0.0	17.4	
8	765 kV	SATNA-ORAI	1	0	888	0.0	19.4	-19.4	
9	765 kV	BANASKANTHA-CHITORGARH	2	1450	0	18.9	0.0	18.9	
10	765 kV	VINDHYACHAL-VARANASI	2	0	2522	0.0	41.9	-41.9	
11	400 kV	ZERDA-KANKROLI	1	274	0	4.3	0.0	4.3	
12	400 kV	ZERDA-BHINMAL	1	508	27	5.6	0.0	5.6	
13	400 kV	VINDHYACHAL-RIHAND	1	962	0	22.1	0.0	22.1	
14	400 kV	RAPS-SHILAPUR	2	249	0	4.26	2.9	-2.1	
15	220 kV	BHANPURA-BANPUR	1	0	0	0.0	0.0	0.0	
16	220 kV	BHANPURA-MORAK	1	0	30	0.0	1.9	-1.9	
17	220 kV	MEHGAON-AURAIYA	1	59	7	0.5	0.0	0.5	
18	220 kV	MALANPUR-AURAIYA	1	43	19	0.8	0.0	0.8	
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	89.3	181.0	-91.7
Import/Export of WR (With SR)									
1	HVDC	BHADRAWATI-B/B	-	0	1005	0.0	24.0	-24.0	
2	HVDC	BAHARH-PUGAUR	2	0	5015	0.0	87.8	-87.8	
3	765 kV	KOLHAPUR-KACHHUP	2	280	1324	0.3	11.5	-11.2	
4	765 kV	WARDHA-NIZAMABAD	2	0	1884	0.0	27.7	-27.7	
5	400 kV	KOLHAPUR-KUDGI	2	1105	0	20.9	0.0	20.9	
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	0	134	2.7	0.0	2.7	
						WR-SR	24.0	151.0	-127.0
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 4*180MW)	-126	17	-76	-1.81			
	ER	400kV TALA-BINAGURI 1,2,3 (& 400kV MALBASE - BINAGURI) i.e. BINAGURI RECEIPT (from TALA HEP 6*170MW)	319	65	160	3.85			
	ER	220kV CHUKHA-BIRPARA 1&2 (& 220kV MALBASE - BIRPARA) i.e. BIRPARA RECEIPT (from CHUKHA HEP 4*84MW)	-303	-173	-243	-5.83			
	NER	132kV GELEPHU-SALAKATI	21	1	12	0.28			
	NER	132kV MOTANGA-RANGIA	37	2	4	0.09			
NEPAL	NR	132kV MAHENDRANAGAR-TANAKPUR(NHPC)	-79	0	-68	-1.64			
	ER	NEPAL IMPORT (FROM BIHAR)	-145	-41	-102	-2.46			
BANGLADESH	ER	400kV DHALKEBAR-MUZAFFARPUR 1&2	-484	-338	-479	-11.49			
	ER	BHERAMARA B/B HVDC (B'DESH)	-921	-312	-559	-13.42			
	ER (Isolated from Indian Grid)	400kV GODDA_TPS-RAHANPUR (B'DESH) D/C	-546	0	-304	-7.30			
	NER	132kV COMILLA-SURAJMANI NAGAR 1&2	-140	0	-107	-2.56			