



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: 29th 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 28.04.2023.

महोदय/Dear Sir,

आई०ई०जी०सी०-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 28-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 28th April 2023, is available at the NLDC website.

धन्यवाद,

Report for previous day

Date of Reporting: 29-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)	56453	54537	48761	24959	2932	187642
Peak Shortage (MW)	130	0	0	360	57	547
Energy Met (MU)	1220	1357	1188	525	52	4343
Hydro Gen (MU)	189	22	72	40	9	332
Wind Gen (MU)	19	57	30	-	-	106
Solar Gen (MU)*	103.44	54.02	107.99	2.64	1.11	269
Energy Shortage (MU)	0.53	0.00	0.00	1.49	1.42	3.44
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	57401	62038	56241	25565	3061	197000
Time Of Maximum Demand Met (From NLDC SCADA)	19:42	11:41	11:59	19:19	18:44	11:42

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	0.089	2.30	2.15	10.89	15.35	68.71	15.95

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	7308	0	161.0	36.5	-1.1	97	0.00
	Haryana	7995	0	160.7	103.7	-0.3	254	0.00
	Rajasthan	13083	0	257.7	70.4	-7.9	263	0.00
	Delhi	4395	0	93.8	87.1	-2.4	18	0.00
	UP	21353	0	406.5	156.6	0.3	305	0.00
	Uttarakhand	2127	0	44.2	27.1	-0.1	134	0.00
	HP	1706	0	31.2	14.9	-0.2	48	0.00
	J&K(UT) & Ladakh(UT)	2860	130	57.0	40.0	-0.7	170	0.53
	Chandigarh	230	0	4.7	4.8	-0.1	11	0.00
	Railways NR ISTS	179	0	3.8	3.3	0.5	33	0.00
WR	Chhattisgarh	4713	0	100.5	39.8	-1.1	270	0.00
	Gujarat	20780	0	444.0	223.6	-0.4	1361	0.00
	MP	10210	0	211.2	110.8	-3.9	444	0.00
	Maharashtra	24673	0	527.1	211.3	-3.0	699	0.00
	Goa	724	0	15.5	15.2	-0.2	58	0.00
	DNHDDPDCL	1244	0	29.0	29.4	-0.4	56	0.00
	AMNSIL	798	0	17.6	9.3	-0.1	239	0.00
	BALCO	521	0	12.4	12.4	0.0	518	0.00
	Andhra Pradesh	11489	0	234.4	94.4	-0.4	832	0.00
	Telangana	8615	0	180.0	61.3	0.7	1263	0.00
SR	Karnataka	15038	0	287.8	141.3	0.5	760	0.00
	Kerala	4282	0	91.9	72.7	-0.3	125	0.00
	Tamil Nadu	17593	0	384.2	237.4	-2.8	487	0.00
	Puducherry	461	0	10.0	10.3	-1.0	21	0.00
	Bihar	6425	0	119.2	113.3	-2.1	237	0.48
ER	DVC	3653	0	77.4	-48.2	-0.3	333	0.00
	Jharkhand	1688	0	31.6	27.7	-2.9	137	1.01
	Odisha	5733	0	117.3	40.3	-1.6	254	0.00
	West Bengal	8686	0	178.3	43.3	-2.0	396	0.00
	Sikkim	96	0	1.5	1.4	0.2	59	0.00
NER	Arunachal Pradesh	156	0	2.7	2.4	0.3	45	0.00
	Assam	1907	0	31.9	26.2	-0.5	132	0.00
	Manipur	198	0	2.6	2.7	0.0	16	0.00
	Meghalaya	304	70	5.2	3.6	0.0	55	1.42
	Mizoram	116	0	2.0	1.5	-0.1	9	0.00
	Nagaland	155	0	2.4	2.4	-0.1	9	0.00
	Tripura	306	0	5.0	4.0	0.5	69	0.00

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

	Bhutan	Nepal	Bangladesh	Godda -> Bangladesh
Actual (MU)	0.8	-13.9	-14.6	-12.2
Day Peak (MW)	47.8	-639.6	-661.0	-559.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	142.3	-217.7	200.5	-126.9	1.9	0.0
Actual(MU)	124.7	-198.9	208.6	-142.2	3.8	-4.0
O/D/U/D(MU)	-17.6	18.9	8.2	-15.3	1.9	-4.0

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL	% Share
Central Sector	3877	7881	3748	1370	425	17301	43
State Sector	5285	11285	4636	1600	264	23069	57
Total	9162	19165	8384	2970	689	40369	100

G. Sourcewise generation (Gross) (MU)

	NR	WR	SR	ER	NER	All India	% Share
Coal	773	1469	685	701	15	3642	77
Lignite	29	23	61	0	0	113	2
Hydro	189	22	72	40	9	332	7
Nuclear	29	37	61	0	0	127	3
Gas, Naptha & Diesel	15	20	7	0	29	71	2
RES (Wind, Solar, Biomass & Others)	142	113	167	3	1	425	9
Total	1178	1684	1052	744	54	4711	100

Share of RES in total generation (%)	12.04	6.69	15.86	0.41	2.05	9.03
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	30.62	10.20	28.48	5.76	18.86	18.78

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.037
Based on State Max Demands	1.075

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: 29-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	2.7	-2.7	
3	765 kV	GAYA-VARANASI	2	0	753	0.0	10.4	-10.4	
4	765 kV	SASARAM-FAFTEHPUR	1	0	498	0.0	6.9	-6.9	
5	765 kV	GAYA-BALIA	1	0	643	0.0	11.3	-11.3	
6	400 kV	PUSAULI-VARANASI	1	0	65	0.0	0.1	-0.1	
7	400 kV	PUSAULI-ALLAHABAD	1	0	109	0.0	2.3	-2.3	
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	87	551	0.0	6.7	-6.7	
9	400 kV	PATNA-BALIA	2	0	530	0.0	9.4	-9.4	
10	400 kV	NAUBATTI-R-BALIA	2	0	560	0.0	9.3	-9.3	
11	400 kV	BIHARSHARIFE-BALIA	2	139	234	0.0	1.6	-1.6	
12	400 kV	MOTIHARI-GORAKHPUR	2	0	415	0.0	6.5	-6.5	
13	400 kV	BIHARSHARIFE-VARANASI	2	17	304	0.0	4.3	-4.3	
14	220 kV	SAHUPUR-CKARAMANASA	1	0	164	0.0	2.9	-2.9	
15	132 kV	NAGARUNTARI-RIHAND	1	0	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-CHANDALI	1	0	0	0.0	0.0	0.0	
						ER-NR	0.4	74.3	-74.0
Import/Export of ER (With WR)									
1	765 kV	JHARSUGUDA-DHARAMJIAGARH	4	945	83	11.6	0.0	11.6	
2	765 kV	NEW RANCHI-DHARAMJIAGARH	2	293	765	0.0	4.6	-4.6	
3	765 kV	JHARSUGUDA-DURG	2	0	576	0.0	10.9	-10.9	
4	400 kV	JHARSUGUDA-RAIGARH	4	0	537	0.0	9.1	-9.1	
5	400 kV	RANCHI-SIPA	2	77	212	0.0	1.1	-1.1	
6	220 kV	BUDDHIPADAR-RAIGARH	1	0	56	0.0	1.2	-1.2	
7	220 kV	BUDDHIPADAR-KORBA	2	102	0	1.9	0.0	1.9	
						ER-WR	13.5	26.8	-13.3
Import/Export of ER (With SR)									
1	HVDC	JEYPORE-GAZIWAKA B/B	2	0	548	0.0	12.6	-12.6	
2	HVDC	TALCHER-KOLAR BIPPLE	2	0	1651	0.0	39.6	-39.6	
3	765 kV	ANGUL-SRIKAKULAM	2	0	2716	0.0	56.6	-56.6	
4	400 kV	TALCHER-I/C	2	260	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	108.8	-108.8
Import/Export of ER (With NER)									
1	400 kV	BINAGURI-BONGAIGAOON	2	134	97	1.1	0.3	0.8	
2	400 kV	ALIPURDUAR-BONGAIGAOON	2	463	172	4.7	0.0	4.7	
3	220 kV	ALIPURDUAR-SALAKATI	2	110	22	1.2	0.0	1.2	
						ER-NER	6.9	0.3	6.6
Import/Export of NER (With NR)									
1	HVDC	BISWANATH CHARIALI-AGRA	2	482	0	10.3	0.0	10.3	
						NER-NR	10.3	0.0	10.3
Import/Export of WR (With NR)									
1	HVDC	CHAMPA-KURUKSHETRA	2	0	1510	0.0	34.2	-34.2	
2	HVDC	VINDHYACHAL-B/B	-	443	0	12.2	0.0	12.2	
3	HVDC	MUNDRA-MOHINDERGARH	2	0	305	0.0	7.2	7.2	
4	765 kV	GWALIOR-AGRA	2	0	1765	0.0	27.0	-27.0	
5	765 kV	GWALIOR-PHAGI	2	0	1619	0.0	22.7	-22.7	
6	765 kV	JABALPUR-ORAI	2	0	625	0.0	17.6	-17.6	
7	765 kV	GWALIOR-ORAI	1	867	0	15.6	0.0	15.6	
8	765 kV	SATNA-ORAI	1	0	885	0.0	19.2	-19.2	
9	765 kV	BANASKANTHA-CHITORGARH	2	1967	0	26.0	0.0	26.0	
10	765 kV	VINDHYACHAL-VARANASI	2	0	2467	0.0	41.9	-41.9	
11	400 kV	ZERDA-KANKROLI	1	0	377	0.0	5.5	5.5	
12	400 kV	ZERDA-BHINMAL	1	0	729	0.0	9.1	9.1	
13	400 kV	VINDHYACHAL-RIHAND	1	965	0	22.1	0.0	22.1	
14	400 kV	RAPS-SHILAIPTUR	2	397	0	27.4	1.8	0.5	
15	220 kV	BHANPURA-BANPUR	1	0	0	0.0	0.0	0.0	
16	220 kV	BHANPURA-MORAK	1	0	30	0.0	2.0	-2.0	
17	220 kV	MEHGAON-AURAIYA	1	70	7	0.7	0.0	0.7	
18	220 kV	MALANPUR-AURAIYA	1	53	18	0.5	0.0	0.4	
19	132 kV	GWALIOR-SAWALMADHOPUR	1	1	0	0.0	0.0	0.0	
20	132 kV	RAJGHAT-LALITPUR	2	0	0	0.0	0.0	0.0	
						WR-NR	101.2	166.4	-65.2
Import/Export of WR (With SR)									
1	HVDC	BHADRAWATI-B/B	-	0	1004	0.0	24.0	-24.0	
2	HVDC	BAHARH-PUGAUR	2	0	5013	0.0	103.6	-103.6	
3	765 kV	KOLHAPUR-RAICHUR	2	425	1330	0.8	12.8	-12.0	
4	765 kV	WARDHA-NIZAMABAD	2	0	1819	0.0	30.2	-30.2	
5	400 kV	KOLHAPUR-KUDGI	2	1172	0	20.1	0.0	20.1	
6	220 kV	KOLHAPUR-CHIKODI	2	0	0	0.0	0.0	0.0	
7	220 kV	BONDA-AMBEWADI	1	0	169	0.0	0.0	0.0	
8	220 kV	NELDEMI-AMBEWADI	1	0	134	2.7	0.0	2.7	
						WR-SR	23.5	170.5	-147.0
INTERNATIONAL EXCHANGES									
State	Region	Line Name		Max (MW)	Min (MW)	Avg (MW)	Energy Exchange (MU)	Import(+ve)/Export(-ve)	
BHUTAN	ER	400kV MANGDECHHU-ALIPURDUAR 1,2&3 i.e. ALIPURDUAR RECEIPT (from MANGDECHHU HEP 4180MW)		113	-99	-52	-1.26		
	ER	400kV TALA-BINAGURI 1,2,4 (& 400kV MALBASE - BINAGURI) i.e. BINAGURI RECEIPT (from TALA HEP 66170MW)		317	57	62	1.48		
	ER	220kV CHUKHA-BIRPARA 1&2 (& 220kV MALBASE - BIRPARA) i.e. BIRPARA RECEIPT (from CHUKHA HEP 4584MW)		-269	-11	25	0.60		
	NER	132kV GELEPHU-SALAKATI		16	0	9	0.23		
NEPAL	NER	132kV MOTANGA-RANGIA		-31	0	-9	-0.21		
	ER	132kV MAHENDRANAGAR-TANAKPUR(NHPC)		-65	0	-67	-1.61		
BANGLADESH	ER	400kV DHALKEBAR-MUZAFFARPUR 1&2		-445	-305	-406	-9.75		
	ER	BHERAMARA B/B HVDC (B'DESH)		-510	-504	-508	-12.19		
	ER (Isolated from Indian Grid)	400kV GODDA_TPS-RAHANPUR (B'DESH) D/C		-559	-475	-510	-12.24		
	NER	132kV COMILLA-SURAJMANI NAGAR 1&2		-151	0	-100	-2.40		