



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: 30th 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 29.04.2023.

महोदय/Dear Sir,

आई०ई०जी०सी०-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 29-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 29th April 2023, is available at the NLDC website.

धन्यवाद,

Report for previous day

Date of Reporting: 30-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)	52953	53948	45465	23364	2644	178374
Peak Shortage (MW)	0	0	0	314	47	361
Energy Met (MU)	1191	1293	1134	536	50	4205
Hydro Gen (MU)	182	28	54	41	11	316
Wind Gen (MU)	13	44	31	-	-	88
Solar Gen (MU)*	119.10	43.20	103.43	5.05	0.92	272
Energy Shortage (MU)	1.06	0.00	0.00	1.85	1.27	4.18
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	53549	57819	53853	24831	2801	188802
Time Of Maximum Demand Met	19:55	15:28	11:21	18:51	18:43	11:19

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	0.058	0.00	1.06	8.23	9.29	66.05	24.66

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	7388	0	155.5	39.6	-0.3	258	0.00
	Haryana	7546	0	161.5	102.6	-0.8	191	0.00
	Rajasthan	11519	0	231.1	59.3	-6.0	327	0.00
	Delhi	4048	0	89.3	84.7	-1.6	82	0.00
	UP	21028	0	409.9	155.3	0.4	347	0.29
	Uttarakhand	2080	0	45.1	27.0	0.5	217	0.00
	HP	1640	0	31.1	15.2	-0.1	56	0.00
	J&K(UT) & Ladakh(UT)	2870	0	59.0	43.7	1.1	168	0.77
	Chandigarh	215	0	4.5	4.6	-0.1	30	0.00
Railways NR ISTS	177	0	3.9	3.2	0.7	57	0.00	
WR	Chhattisgarh	4545	0	97.6	39.7	-2.9	346	0.00
	Gujarat	18453	0	410.6	221.6	0.0	1367	0.00
	MP	9025	0	195.0	97.2	-2.1	465	0.00
	Maharashtra	23374	0	515.2	204.7	-0.7	924	0.00
	Goa	732	0	15.6	15.4	-0.3	37	0.00
	DNHDDPDCL	1235	0	28.8	29.2	-0.4	58	0.00
	AMNSIL	801	0	17.7	10.8	-0.2	250	0.00
	BALCO	519	0	12.4	12.4	0.0	6	0.00
SR	Andhra Pradesh	11464	0	222.7	92.2	-1.4	714	0.00
	Telangana	7799	0	169.4	47.7	-0.5	466	0.00
	Karnataka	14532	0	275.0	133.3	-1.6	607	0.00
	Kerala	3824	0	86.8	72.1	-0.2	231	0.00
	Tamil Nadu	17267	0	370.7	229.1	-3.3	664	0.00
	Puducherry	433	0	9.9	10.1	-0.9	26	0.00
ER	Bihar	6299	0	122.0	116.2	-1.2	285	0.19
	DVC	3592	0	77.1	-48.0	0.4	306	0.00
	Jharkhand	1642	0	33.4	27.1	-1.6	199	1.66
	Odisha	5849	0	115.5	41.2	-1.5	388	0.00
	West Bengal	8514	0	186.8	48.2	-4.0	98	0.00
	Sikkim	87	0	1.3	1.5	-0.2	18	0.00
Railways ER ISTS	21	0	0.1	0.0	0.1	0	0.00	
NER	Arunachal Pradesh	158	0	2.5	2.5	0.0	25	0.00
	Assam	1674	0	29.8	24.0	-0.4	100	0.00
	Manipur	200	0	2.8	2.7	0.1	26	0.00
	Meghalaya	297	15	5.2	3.8	0.0	76	1.27
	Mizoram	119	0	1.9	1.5	-0.1	8	0.00
	Nagaland	142	0	2.4	2.4	-0.1	14	0.00
Tripura	307	0	5.5	4.8	0.2	53	0.00	

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

	Bhutan	Nepal	Bangladesh	Godda -> Bangladesh
Actual (MU)	1.2	-12.8	-14.4	-8.7
Day Peak (MW)	239.0	-576.2	-661.0	-589.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	136.5	-212.1	195.1	-121.3	1.8	0.0
Actual(MU)	119.2	-192.3	189.6	-124.9	1.7	-6.8
O/D/U/D(MU)	-17.3	19.8	-5.5	-3.6	-0.1	-6.7

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL	% Share
Central Sector	4587	8541	3958	1370	425	18881	43
State Sector	6200	13080	3681	1350	264	24574	57
Total	10787	21620	7639	2720	689	43454	100

G. Sourcewise generation (Gross) (MU)

	NR	WR	SR	ER	NER	All India	% Share
Coal	749	1420	662	693	13	3537	77
Lignite	26	22	61	0	0	109	2
Hydro	182	28	54	41	11	316	7
Nuclear	29	37	69	0	0	136	3
Gas, Naptha & Diesel	13	20	7	0	30	69	2
RES (Wind, Solar, Biomass & Others)	148	88	162	5	1	405	9
Total	1148	1615	1014	740	55	4571	100

Share of RES in total generation (%)	12.94	5.47	15.98	0.74	1.68	8.86
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	31.36	9.51	28.09	6.29	22.56	18.75

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.021
Based on State Max Demands	1.066

I. All India Peak Demand and shortage at Solar and Non-Solar Hour

	Max Demand Met(MW)	Time	Shortage(MW)
Solar hr	188802	11:19	256
Non-Solar hr	182919	19:24	303

Diversity factor = Sum of regional or state maximum demands / All India maximum demand

**Note: All generation MU figures are gross

***Godda (Jharkhand) -> Bangladesh power exchange is through the radial connection (isolated from Indian Grid)

Solar Hours -> 06:00 to 18:00hrs and rest are Non-Solar Hours

*Source: RLDCs for solar connected to ISTS; SLDCs for embedded solar. Limited visibility of embedded solar data.

Executive Director-NLDC

INTER-REGIONAL EXCHANGES

Import=(+ve) /Export =(-ve) for NET (MU)

Date of Reporting: 30-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	3.6	-3.6
3	765 kV	GAYA-VARANASI	2	331	767	0.0	6.8	-6.8
4	765 kV	SASARAM-FATEHPUR	1	84	415	0.0	5.6	-5.6
5	765 kV	GAYA-BALIA	1	0	704	0.0	11.8	-11.8
6	400 kV	PUSAULI-VARANASI	1	0	101	0.0	1.4	-1.4
7	400 kV	PUSAULI-ALLAHABAD	1	0	79	0.0	2.0	-2.0
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	222	723	0.0	6.0	-6.0
9	400 kV	PATNA-BALIA	2	0	640	0.0	10.0	-10.0
10	400 kV	NAUBATPUR-BALIA	2	6	678	0.0	8.8	-8.8
11	400 kV	BIHARSHARIFF-BALIA	2	238	391	0.0	2.5	-2.5
12	400 kV	MOTIHARI-GORAKHPUR	2	54	466	0.0	6.2	-6.2
13	400 kV	BIHARSHARIFF-VARANASI	2	170	300	0.0	2.9	-2.9
14	220 kV	SAHUPURI-KARAMNANA	1	0	182	0.0	3.0	-3.0
15	132 kV	NAGAR UNTARI-RIHAND	1	0	0	0.0	0.0	0.0
16	132 kV	GARWAH-RIHAND	1	25	0	0.3	0.0	0.3
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						0.3	70.4	-70.1
Import/Export of ER (With WR)								
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	1048	0	11.4	0.0	11.4
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	771	463	2.3	0.0	2.3
3	765 kV	JHARSUGUDA-DURG	2	0	515	0.0	9.5	-9.5
4	400 kV	JHARSUGUDA-RAIGARH	4	0	501	0.0	7.1	-7.1
5	400 kV	RANCHI-SIPAT	2	186	173	0.4	0.0	0.4
6	220 kV	BUDHIPADAR-RAIGARH	1	0	56	0.0	1.8	-1.8
7	220 kV	BUDHIPADAR-KORBA	2	121	0	2.8	0.0	2.8
ER-WR						16.9	18.3	-1.4
Import/Export of ER (With SR)								
1	HVDC	JEYPORE-GAZUWAKA B/B	2	0	546	0.0	12.6	-12.6
2	HVDC	TALCHER-KOLAR BIPOLE	2	0	1656	0.0	39.6	-39.6
3	765 kV	ANGUL-SRIKAKULAM	2	0	2848	0.0	53.5	-53.5
4	400 kV	TALCHER-I/C	2	257	0	4.6	0.0	4.6
5	220 kV	BALIMELA-UPPER-SILERRU	1	0	0	0.0	0.0	0.0
ER-SR						0.0	105.7	-105.7
Import/Export of ER (With NER)								
1	400 kV	BINAGURI-BONGAIGAON	2	218	103	1.1	0.4	0.7
2	400 kV	ALIPURDUAR-BONGAIGAON	2	700	224	2.8	0.0	2.8
3	220 kV	ALIPURDUAR-SALAKATI	2	128	23	0.9	0.0	0.9
ER-NER						4.7	0.4	4.3
Import/Export of NER (With NR)								
1	HVDC	BISWANATH CHARIAL-AGRA	2	475	0	7.2	0.0	7.2
NER-NR						7.2	0.0	7.2
Import/Export of WR (With NR)								
1	HVDC	CHAMPA-KIRUKSHETRA	2	0	1501	0.0	34.9	-34.9
2	HVDC	VINDHYACHAL B/B	-	445	0	12.1	0.0	12.1
3	HVDC	MUNDRA-MOHINDERGARH	2	0	305	7.2	0.0	7.2
4	765 kV	GWALIOR-AGRA	2	0	1675	0.0	28.4	-28.4
5	765 kV	GWALIOR-PHAGI	2	422	1302	0.0	18.9	-18.9
6	765 kV	JABALPUR-ORAI	2	0	626	0.0	17.9	-17.9
7	765 kV	GWALIOR-ORAI	1	891	0	15.0	0.0	15.0
8	765 kV	SATNA-ORAI	1	0	922	0.0	18.0	-18.0
9	765 kV	BANASKANTHA-CHITORGARH	2	1842	0	29.0	0.0	29.0
10	765 kV	VINDHYACHAL-VARANASI	2	0	2401	0.0	45.9	-45.9
11	400 kV	ZERDA-KANKROLI	1	361	0	6.2	0.0	6.2
12	400 kV	ZERDA-BHINMAL	1	680	0	9.8	0.0	9.8
13	400 kV	VINDHYACHAL-RIHAND	1	958	0	21.9	0.0	21.9
14	400 kV	RAPP-SHUALPUR	2	463	243	1.0	0.0	1.0
15	220 kV	BHANPURA-RANPUR	1	0	0	0.0	0.0	0.0
16	220 kV	BHANPURA-MORAK	1	0	30	0.0	1.8	-1.8
17	220 kV	MEHGAON-AURAIYA	1	63	5	0.5	0.0	0.5
18	220 kV	MALANPUR-AURAIYA	1	48	11	0.2	0.0	0.2
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						103.0	165.7	-62.7
Import/Export of WR (With SR)								
1	HVDC	BHADRAWATI B/B	-	0	1002	0.0	23.9	-23.9
2	HVDC	RAIGARH-PUGALUR	2	0	5010	0.0	93.4	-93.4
3	765 kV	SOLAPUR-RAICHUR	2	533	1514	0.0	10.4	-10.4
4	765 kV	WARDHA-NIZAMABAD	2	0	1796	0.0	25.3	-25.3
5	400 kV	KOLHAPUR-KUDGI	2	1154	0	19.7	0.0	19.7
6	220 kV	KOLHAPUR-CHIKODI	2	0	0	0.0	0.0	0.0
7	220 kV	PONDA-AMBEWADI	1	0	0	0.0	0.0	0.0
8	220 kV	XELDEM-AMBEWADI	1	0	134	2.7	0.0	2.7
WR-SR						22.4	153.0	-130.6

INTERNATIONAL EXCHANGES					Import(+ve)/Export(-ve) Energy Exchange (MU)		
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 4*180MW)	187	-61	14	0.34	
	ER	400kV TALA-BINAGURI 1,2,4 (& 400kV MALBASE - BINAGURI) i.e. BINAGURI RECEIPT (from TALA HEP 6*170MW)	310	35	191	4.59	
	ER	220kV CHUKHA-BIRPARA 1&2 (& 220kV MALBASE - BIRPARA) i.e. BIRPARA RECEIPT (from CHUKHA HEP 4*84MW)	-229	76	-150	-3.60	
	NER	132kV GELEPHU-SALAKATI	-19	13	-6	-0.15	
	NER	132kV MOTANGA-RANGIA	34	-17	0	0.01	
NEPAL	NR	132kV MAHENDRANAGAR-TANAKPUR(NHPC)	-69	0	-63	-1.52	
	ER	NEPAL IMPORT (FROM BIHAR)	-100	-35	-79	-1.90	
	ER	400kV DHALKEBAR-MUZAFFARPUR 1&2	-407	-290	-392	-9.40	
BANGLADESH	ER	BHERAMARA B/B HVDC (B'DESH)	-507	-166	-466	-11.18	
	ER (Isolated from Indian Grid)	400kV GODDA_TPS-RAHANPUR (B'DESH) D/C	-589	0	-361	-8.67	
	NER	132kV COMILLA-SURAJMANI NAGAR 1&2	-154	0	-133	-3.18	