



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: 27th 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 26.04.2023.

महोदय/Dear Sir,

आई०ई०जी०सी०-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 26-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 26th April 2023, is available at the NLDC website.

धन्यवाद,

Report for previous day

Date of Reporting: 27-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)	56572	56348	48670	24369	2914	188873
Peak Shortage (MW)	0	0	0	0	59	59
Energy Met (MU)	1226	1433	1139	527	53	4378
Hydro Gen (MU)	175	26	67	38	10	316
Wind Gen (MU)	26	107	24	-	-	157
Solar Gen (MU)*	120.29	59.41	112.45	3.09	1.28	297
Energy Shortage (MU)	0.47	0.00	0.00	1.78	1.36	3.61
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	57628	66049	53709	24873	2965	195821
Time Of Maximum Demand Met (From NLDC SCADA)	19:48	15:26	12:37	20:30	18:28	15:26

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	0.086	0.59	4.11	11.86	16.56	66.20	17.24

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	7459	0	162.5	43.2	-0.7	119	0.00
	Haryana	8296	0	162.3	96.4	-0.9	184	0.00
	Rajasthan	13487	0	268.8	61.5	-6.4	132	0.00
	Delhi	4445	0	92.4	85.3	-2.0	68	0.00
	UP	21760	0	401.5	157.0	-2.1	369	0.00
	Uttarakhand	2052	0	44.2	24.3	0.2	181	0.00
	HP	1688	0	31.3	15.7	0.0	112	0.16
	J&K(UT) & Ladakh(UT)	2747	0	55.3	42.1	-0.7	80	0.31
	Chandigarh	222	0	4.5	4.8	-0.3	15	0.00
	Railways NR ISTS	176	0	3.7	3.2	0.5	36	0.00
WR	Chhattisgarh	4794	0	103.9	43.0	2.6	318	0.00
	Gujarat	20701	0	444.2	203.8	-1.3	803	0.00
	MP	11095	0	231.5	125.6	-5.8	425	0.00
	Maharashtra	27150	0	579.9	218.3	-2.6	906	0.00
	Goa	720	0	15.1	14.8	-0.2	44	0.00
	DNHDDPDCL	1263	0	29.1	29.5	-0.4	12	0.00
	AMNSIL	778	0	17.2	7.7	-0.2	208	0.00
	BALCO	520	0	12.4	12.5	-0.1	5	0.00
	Andhra Pradesh	10894	0	227.0	101.5	-2.0	394	0.00
	Telangana	8191	0	159.4	42.3	-1.9	442	0.00
SR	Karnataka	14809	0	284.4	117.9	-1.0	604	0.00
	Kerala	4167	0	88.7	73.2	-0.6	217	0.00
	Tamil Nadu	16930	0	369.3	228.4	-1.5	444	0.00
	Puducherry	458	0	9.8	9.8	-0.8	43	0.00
	Bihar	6068	0	116.4	107.0	-2.1	321	0.62
ER	DVC	3595	0	77.3	-48.6	-0.4	240	0.00
	Jharkhand	1668	0	32.1	26.5	-1.8	160	1.16
	Odisha	5603	0	109.9	35.8	-1.3	379	0.00
	West Bengal	8636	0	189.6	54.1	-2.7	223	0.00
	Sikkim	102	0	1.5	1.3	0.3	67	0.00
NER	Arunachal Pradesh	139	0	2.2	2.3	-0.2	38	0.00
	Assam	1904	0	33.1	26.9	-0.3	138	0.00
	Manipur	198	0	2.7	2.6	0.1	21	0.00
	Meghalaya	312	59	5.2	3.5	0.0	59	1.36
	Mizoram	120	0	1.8	1.4	-0.2	12	0.00
	Nagaland	143	0	2.3	2.3	-0.1	22	0.00
	Tripura	313	0	5.7	4.9	0.1	45	0.00

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

	Bhutan	Nepal	Bangladesh	Godda -> Bangladesh
Actual (MU)	-3.2	-13.7	-24.8	-7.4
Day Peak (MW)	-213.0	-645.1	-1081.0	-525.7

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	152.1	-211.4	169.4	-112.9	2.8	0.0
Actual(MU)	130.6	-194.8	172.9	-118.2	4.0	-5.5
O/D/U/D(MU)	-21.6	16.6	3.5	-5.2	1.2	-5.5

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL	% Share
Central Sector	5362	8451	4038	1390	446	19687	49
State Sector	5120	10325	2836	1750	285	20315	51
Total	10482	18775	6874	3140	731	40001	100

G. Sourcewise generation (Gross) (MU)

	NR	WR	SR	ER	NER	All India	% Share
Coal	763	1486	703	694	15	3662	77
Lignite	27	20	59	0	0	106	2
Hydro	175	26	67	38	10	316	7
Nuclear	29	37	45	0	0	111	2
Gas, Naptha & Diesel	18	18	7	0	30	72	2
RES (Wind, Solar, Biomass & Others)	167	167	164	3	1	503	11
Total	1178	1755	1045	735	56	4769	100

Share of RES in total generation (%)	14.15	9.52	15.73	0.47	2.29	10.54
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	31.46	13.11	26.46	5.60	19.80	19.49

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.048
Based on State Max Demands	1.091

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: 27-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	2.4	-2.4
3	765 kV	GAYA-VARANASI	2	213	702	0.0	8.6	-8.6
4	765 kV	SASARAM-FAITEHPUR	1	46	524	0.0	6.9	-6.9
5	765 kV	GAYA-BALIA	1	0	597	0.0	11.1	-11.1
6	400 kV	PUSAULI-VARANASI	1	0	36	0.0	1.0	-1.0
7	400 kV	PUSAULI-ALLAHABAD	1	0	99	0.0	1.4	-1.4
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	291	601	0.0	5.0	-5.0
9	400 kV	PATNA-BALIA	2	0	506	0.0	8.3	-8.3
10	400 kV	NAIBATTI-R-BALIA	2	2	536	0.0	7.4	-7.4
11	400 kV	BIHARSHARIFE-BALIA	2	268	231	0.0	0.7	-0.7
12	400 kV	MOTIHARI-GORAKHPUR	2	56	431	0.0	5.9	-5.9
13	400 kV	BIHARSHARIFE-VARANASI	2	160	309	0.0	3.3	-3.3
14	220 kV	SAHUPUR-BAKRAMANASA	1	0	162	0.0	2.4	-2.4
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-CHANDLAULI	1	0	0	0.0	0.0	0.0
						ER-NR	0.4	-64.4
Import/Export of ER (With WR)								
1	765 kV	JHARSUGUDA-DHARAMJIAGARH	4	788	374	3.5	0.0	3.5
2	765 kV	NEW RANCHI-DHARAMJIAGARH	2	643	355	3.8	0.0	3.8
3	765 kV	JHARSUGUDA-DURG	2	0	560	0.0	10.1	-10.1
4	400 kV	JHARSUGUDA-RAIGARH	4	0	462	0.0	6.5	-6.5
5	400 kV	RANCHI-SIPA	2	199	0	132	0.1	0.1
6	220 kV	BUDDHIPADAR-RAIGARH	1	0	56	0.0	1.6	-1.6
7	220 kV	BUDDHIPADAR-KORBA	2	84	0	1.3	0.0	1.3
						ER-WR	8.7	-9.5
Import/Export of ER (With SR)								
1	HVDC	JEYPORE-GAZI-WAKA B/B	2	0	490	0.0	16.5	-16.5
2	HVDC	TALCHER-KOLAR-BIPPLE	2	0	1659	0.0	39.6	-39.6
3	765 kV	ANGUL-SRIKAKULAM	2	0	2675	0.0	48.4	-48.4
4	400 kV	TALCHER-I/C	2	270	121	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	-98.5
Import/Export of ER (With NER)								
1	400 kV	BINAGURI-BONGAIGAOON	2	135	69	1.0	0.2	0.8
2	400 kV	ALIPURDUAR-BONGAIGAOON	2	505	58	5.3	0.0	5.3
3	220 kV	ALIPURDUAR-SALAKATI	2	99	3	1.3	0.0	1.3
						ER-NER	7.6	7.4
Import/Export of NER (With NR)								
1	HVDC	BISWANATH-CHARIALLAGRA	2	483	0	11.5	0.0	11.5
						NER-NR	11.5	0.0
Import/Export of WR (With NR)								
1	HVDC	CHAMPA-KURKSHETRA	2	0	1511	0.0	35.2	-35.2
2	HVDC	VINDHYACHAL-B/B	-	440	0	12.2	0.0	12.2
3	HVDC	MUNDRA-MOHINDERGARH	2	0	304	7.2	0.0	7.2
4	765 kV	GWALIOR-AGRA	2	0	2038	0.0	31.6	-31.6
5	765 kV	GWALIOR-PHAGI	2	376	1444	0.9	18.0	-17.1
6	765 kV	JABALPUR-ORAI	2	0	783	0.0	21.2	-21.2
7	765 kV	GWALIOR-ORAI	1	872	0	15.6	0.0	15.6
8	765 kV	SATNA-ORAI	1	0	893	0.0	18.3	-18.3
9	765 kV	BANASKANTHA-CHITORGARH	2	1491	0	18.0	0.0	18.0
10	765 kV	VINDHYACHAL-VARANASI	2	0	2471	0.0	45.6	-45.6
11	400 kV	ZERDA-KANKROLI	1	312	2	4.3	0.0	4.3
12	400 kV	ZERDA-BHINMAL	1	600	18	6.8	0.0	6.8
13	400 kV	VINDHYACHAL-RIHAND	1	962	0	21.7	0.0	21.7
14	400 kV	RAPS-SHILAPUR	2	501	410	3.2	2.4	0.8
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	52	7	0.5	0.0	0.5
18	220 kV	MALANPUR-AURAIYA	1	38	19	0.2	0.0	0.2
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	90.6	-83.5
Import/Export of WR (With SR)								
1	HVDC	BHADRAWATI-B/B	-	0	1010	0.0	24.0	-24.0
2	HVDC	BAHARH-PUGAULUR	2	0	5519	0.0	108.9	-108.9
3	765 kV	KOLHAPUR-RAICHUR	2	1001	1243	7.1	5.6	1.5
4	765 kV	WARDHA-NIZAMABAD	2	26	2012	0.0	15.6	-15.6
5	400 kV	KOLHAPUR-KUDGI	2	1334	0	23.8	0.0	23.8
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	133	2.7	0.0	2.7
						WR-SR	33.6	-120.5
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)	-214	7	-93	-2.23		
	ER	400kV TALA-BINAGURI 1,2,4 (& 400kV MALBASE - BINAGURI) i.e. BINAGURI RECEIPT (from TALA HEP 6170MW)	294	34	193	4.63		
	ER	220kV CHUKHA-BIRPARA 1&2 (& 220kV MALBASE - BIRPARA) i.e. BIRPARA RECEIPT (from CHUKHA HEP 4584MW)	-285	-76	-224	-5.38		
	NER	132kV GELEPHU-SALAKATI	-24	-8	-16	-0.38		
NEPAL	NER	132kV MOTANGA-RANGIA	33	-4	9	0.21		
	ER	132kV MAHENDRANAGAR-TANAKPUR(NHPC)	-77	0	-68	-1.63		
BANGLADESH	ER	400kV DHALKEBAR-MUZAFFARPUR 1&2	-451	-299	-418	-10.04		
	ER (Isolated from Indian Grid)	BHERAMARA B/B HVDC (B'DESH) 400kV GODDA_TPS-RAHANPUR (B'DESH) D/C	-932 -526	-823 101	-905 -307	-21.71 -7.37		
	NER	132kV COMILLA-SURAJMANI NAGAR 1&2	-149	0	-128	-3.08		