National Load Despatch Centre
राष्ट्रीय भार प्रेषण केंद्र
GRID CONTROLLER OF INDIA LIMITED
ग्रिड कंट्रोलर ऑफ इंडिया लिमिटेड
(Government of India Enterprise/ भारत सरकार का उद्यम)
B-9, QUTUB INSTITUTIONAL AREA, KATWARIA SARAI, NEW DELHI -110016
बी-9, क़ुतुब इन्स्टीट्यूशनल एरिया, कटवारिया सराये, न्यू दिल्ली-110016

Ref: POSOCO/NLDC/SO/Daily PSP Report

दिनांक: 26th April 2023

To,

1. कार्यकारी निदेशक, पू.क्षे .भा .प्रे .के.,14 , गोल्फ क्लब रोड , कोलकाता - 700033
   Executive Director, ERLDC, 14 Golf Club Road, Tollygunge, Kolkata, 700033
2. 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
3. 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
4. कार्यकारी निदेशक, ऊ. पू. क्षे. भा. प्रे. के., डोंगतिएह, लोअर नोंग्रह , लापलंग, शिलोंग – 793006
   Executive Director, NERLDC, Dongteih, Lower Nongrah, Lapalang, Shillong - 793006, Meghalaya
5. 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 25.04.2023.

महोदय/Dear Sir,

आई०ई०जी०सी०-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 25-अप्रैल-2023 की अखिल भारतीय प्रणाली की दैनिक ग्रिड निष्पादन रिपोर्ट रा०भा०प्रे०के० की वेबसाइट पर उप्लब्ध 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 25th April 2023, is available at the NLDC website.

धन्यवाद,

ग्रिड कंट्रोलर ऑफ इंडिया लिमिटेड
राष्ट्रीय भार प्रेषण केंद्र, नई दिल्ली

Report for previous day — Date of Reporting: 26-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)	55670	59593	45702	24102	2741	187808
Peak Shortage (MW)	0	0	0	248	46	294
Energy Met (MU)	1160	1453	1177	495	50	4335
Hydro Gen (MU)	166	26	69	33	10	303
Wind Gen (MU)	14	81	32	-	-	126
Solar Gen (MU)*	140.51	64.60	109.55	2.72	1.35	319
Energy Shortage (MU)	0.37	0.00	0.00	0.90	1.41	2.68
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	56618	65826	56380	24293	2836	194367
Time Of Maximum Demand Met (From NLDC SCADA)	19:56	15:01	12:44	19:02	19:19	11:38

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	0.064	0.10	1.18	5.21	6.49	68.67	24.84

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	7379	0	149.7	42.1	-1.3	189	0.00
	Haryana	7810	0	155.4	92.7	-0.9	240	0.00
	Rajasthan	13219	0	269.7	72.7	-5.0	304	0.00
	Delhi	4174	0	87.7	81.0	-2.2	64	0.00
	UP	20167	0	360.2	134.8	-0.2	421	0.22
	Uttarakhand	2050	0	42.9	23.1	0.7	259	0.03
	HP	1783	0	31.7	15.9	-0.3	206	0.00
	J&K(UT) & Ladakh(UT)	2754	0	54.6	44.6	0.1	144	0.12
	Chandigarh	215	0	4.3	4.5	-0.3	21	0.00
	Railways_NR ISTS	173	0	3.7	3.3	0.4	37	0.00
WR	Chhattisgarh	4549	0	102.0	40.9	-1.6	299	0.00
	Gujarat	21082	0	445.6	227.8	-1.3	590	0.00
	MP	11093	0	241.2	129.8	-2.2	351	0.00
	Maharashtra	27500	0	590.0	218.6	-0.8	1024	0.00
	Goa	691	0	15.9	15.0	0.4	55	0.00
	DNHDDPDCL	1237	0	28.4	29.1	-0.7	14	0.00
	AMNSIL	834	0	17.8	7.7	-0.1	268	0.00
	BALCO	520	0	12.4	12.5	-0.1	6	0.00
SR	Andhra Pradesh	11106	0	228.4	96.2	0.4	841	0.00
	Telangana	9691	0	188.1	66.4	-2.4	633	0.00
	Karnataka	15225	0	287.6	119.2	0.2	553	0.00
	Kerala	4257	0	92.5	72.9	-0.4	195	0.00
	Tamil Nadu	16700	0	370.5	229.0	-1.0	454	0.00
	Puducherry	443	0	9.9	9.9	-0.7	16	0.00
ER	Bihar	5949	140	105.4	97.0	-2.5	375	0.79
	DVC	3629	0	76.6	-44.3	0.1	267	0.00
	Jharkhand	1639	0	30.5	25.6	-2.9	134	0.11
	Odisha	5756	0	108.1	40.1	-3.6	328	0.00
	West Bengal	8470	0	172.6	39.9	-2.3	102	0.00
	Sikkim	99	0	1.5	1.3	0.2	53	0.00
NER	Arunachal Pradesh	124	0	2.1	2.4	-0.4	10	0.00
	Assam	1739	0	30.7	24.1	0.2	183	0.00
	Manipur	190	0	2.6	2.6	0.0	29	0.00
	Meghalaya	305	46	5.1	3.5	-0.1	53	1.41
	Mizoram	117	0	1.8	1.4	-0.3	15	0.00
	Nagaland	147	0	2.3	2.4	-0.2	22	0.00
	Tripura	308	0	5.5	4.9	0.3	147	0.00

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

	Bhutan	Nepal	Bangladesh	Godda -> Bangladesh
Actual (MU)	-1.9	-12.3	-25.2	-11.1
Day Peak (MW)	-219.3	-627.1	-1089.0	-536.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	124.8	-175.4	178.0	-128.6	1.2	0.0
Actual(MU)	103.5	-153.7	186.4	-144.5	2.0	-6.3
O/D/U/D(MU)	-21.3	21.7	8.4	-16.0	0.9	-6.3

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL	% Share
Central Sector	5112	8711	3538	890	425	18676	48
State Sector	4460	10900	2986	1290	309	19944	52
Total	9572	19610	6524	2180	734	38619	100

G. Sourcewise generation (Gross) (MU)

	NR	WR	SR	ER	NER	All India	% Share
Coal	723	1493	715	691	14	3637	77
Lignite	26	19	60	0	0	105	2
Hydro	166	26	69	33	10	303	6
Nuclear	29	37	45	0	0	111	2
Gas, Naptha & Diesel	18	16	7	0	29	69	1
RES (Wind, Solar, Biomass & Others)	174	146	171	3	1	495	10
Total	1134	1737	1066	728	55	4721	100

Share of RES in total generation (%)	15.30	8.43	16.05	0.43	2.45	10.50
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	32.47	12.04	26.70	5.00	20.34	19.27

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.060
Based on State Max Demands	1.097

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: 26-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	121	900	0.0	11.5	-11.5
4	765 kV	SASARAM-FATEHPUR	1	0	629	0.0	9.1	-9.1
5	765 kV	GAYA-BALIA	1	0	606	0.0	10.0	-10.0
6	400 kV	PUSAULI-VARANASI	1	11	90	0.0	0.8	-0.8
7	400 kV	PUSAULI - ALLAHABAD	1	0	119	0.0	1.6	-1.6
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	217	614	0.0	6.2	-6.2
9	400 kV	PATNA-BALIA	2	0	540	0.0	8.6	-8.6
10	400 kV	NAUBATPUR-BALIA	2	0	575	0.0	8.9	-8.9
11	400 kV	BIHARSHARIFF-BALIA	2	199	281	0.0	2.0	-2.0
12	400 kV	MOTIHARI-GORAKHPUR	2	29	449	0.0	6.4	-6.4
13	400 kV	BIHARSHARIFF-VARANASI	2	97	383	0.0	4.5	-4.5
14	220 kV	SAHUPURI-KARAMNASA	1	0	153	0.0	1.9	-1.9
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	23	0.0	0.0	0.0
18	132 kV	KARMANASA-CHANDAULI	1	0	23	0.0	0.0	0.0
					ER-NR	0.3	73.8	-73.5
Import/Export of ER (With WR)								
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	938	245	6.2	0.0	6.2
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	273	839	0.0	6.4	-6.4
3	765 kV	JHARSUGUDA-DURG	2	0	608	0.0	11.9	-11.9
4	400 kV	JHARSUGUDA-RAIGARH	4	0	476	0.0	8.1	-8.1
5	400 kV	RANCHI-SIPAT	2	32	250	0.0	3.2	-3.2
6	220 kV	BUDHIPADAR-RAIGARH	1	0	110	0.0	1.4	-1.4
7	220 kV	BUDHIPADAR-KORBA	2	148	0	2.1	0.0	2.1
					ER-WR	8.2	30.9	-22.7
Import/Export of ER (With SR)								
1	HVDC	JEYPORE-GAZUWAKA B/B	2	0	441	0.0	10.0	-10.0
2	HVDC	TALCHER-KOLAR BIPOLE	2	0	1641	0.0	39.6	-39.6
3	765 kV	ANGUL-SRIKAKULAM	2	0	2786	0.0	53.9	-53.9
4	400 kV	TALCHER-I/C	2	256	0	4.0	0.0	4.0
5	220 kV	BALIMELA-UPPER-SILERRU	1	0	0	0.0	0.0	0.0
					ER-SR	0.0	103.5	-103.5
Import/Export of ER (With NER)								
1	400 kV	BINAGURI-BONGAIGAON	2	151	38	1.4	0.1	1.3
2	400 kV	ALIPURDUAR-BONGAIGAON	2	531	0	6.6	0.0	6.6
3	220 kV	ALIPURDUAR-SALAKATI	2	98	0	1.4	0.0	1.4
					ER-NER	9.4	0.1	9.3
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	1501	0.0	34.6	-34.6
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	1850	0.0	23.9	-23.9
5	765 kV	GWALIOR-PHAGI	2	457	1412	0.9	19.6	-18.7
6	765 kV	JABALPUR-ORAI	2	72	737	0.0	17.0	-17.0
7	765 kV	GWALIOR-ORAI	1	854	0	15.9	0.0	15.9
8	765 kV	SATNA-ORAI	1	0	889	0.0	17.9	-17.9
9	765 kV	BANASKANTHA-CHITORGARH	2	2294	0	28.9	0.0	28.9
10	765 kV	VINDHYACHAL-VARANASI	2	0	2317	0.0	36.7	-36.7
11	400 kV	ZERDA-KANKROLI	1	410	0	5.6	0.0	5.6
12	400 kV	ZERDA -BHINMAL	1	755	7	8.0	0.0	8.0
13	400 kV	VINDHYACHAL -RIHAND	1	965	0	21.6	0.0	21.6
14	400 kV	RAPP-SHUJALPUR	2	640	265	4.0	1.9	2.1
15	220 kV	BHANPURA-RANPUR	1	0	1	0.0	0.0	0.0
16	220 kV	BHANPURA-MORAK	1	0	30	0.0	0.6	-0.6
17	220 kV	MEHGAON-AURAIYA	1	66	0	0.7	0.0	0.7
18	220 kV	MALANPUR-AURAIYA	1	52	2	0.5	0.0	0.5
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	105.7	152.3	-46.6
Import/Export of WR (With SR)								
1	HVDC	BHADRAWATI B/B	-	0	1006	0.0	19.1	-19.1
2	HVDC	RAIGARH-PUGALUR	2	0	6018	0.0	101.3	-101.3
3	765 kV	SOLAPUR-RAICHUR	2	534	1246	0.9	6.2	-5.2
4	765 kV	WARDHA-NIZAMABAD	2	0	2029	0.0	28.9	-28.9
5	400 kV	KOLHAPUR-KUDGI	2	1194	0	22.3	0.0	22.3
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	131	2.5	0.0	2.5
					WR-SR	25.8	155.5	-129.7

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 MANGDECHU HEP 4*180MW)	-160	6	-82	-1.96
	ER	400kV TALA-BINAGURI 1,2,4 (& 400kV MALBASE - BINAGURI) i.e. BINAGURI RECEIPT (from TALA HEP 6*170MW)	334	112	221	5.30
	ER	220kV CHUKHA-BIRPARA 1&2 (& 220kV MALBASE - BIRPARA) i.e. BIRPARA RECEIPT (from CHUKHA HEP 4*84MW)	-239	-170	-211	-5.06
	NER	132kV GELEPHU-SALAKATI	-22	-5	-14	-0.34
	NER	132kV MOTANGA-RANGIA	25	-21	7	0.16
NEPAL	NR	132kV MAHENDRANAGAR-TANAKPUR(NHPC)	-75	0	-60	-1.44
	ER	NEPAL IMPORT (FROM BIHAR)	-98	-60	-84	-2.01
	ER	400kV DHALKEBAR-MUZAFFARPUR 1&2	-454	-229	-369	-8.85
BANGLADESH	ER	BHERAMARA B/B HVDC (B'DESH)	-941	-846	-920	-22.07
	ER (Isolated from Indian Grid)	400kV GODDA_TPS-RAHANPUR (B'DESH) D/C	-536	-385	-463	-11.11
	NER	132kV COMILLA-SURAJMANI NAGAR 1&2	-148	0	-128	-3.08