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: 06th 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 05.04.2023.

महोदय/Dear Sir,

आई०ई०जी०सी०-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 05-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 05th 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: 06-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)	46306	58599	48318	22953	2628	178804
Peak Shortage (MW)	35	0	0	183	17	235
Energy Met (MU)	988	1404	1257	510	46	4205
Hydro Gen (MU)	122	69	73	43	15	321
Wind Gen (MU)	17	132	28	-	-	178
Solar Gen (MU)*	141.68	58.85	126.20	6.03	0.93	334
Energy Shortage (MU)	1.18	0.00	0.00	1.77	0.93	3.88
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	50374	63992	60779	23773	2704	189003
Time Of Maximum Demand Met (From NLDC SCADA)	19:22	11:34	15:14	18:47	18:25	09:55

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	0.057	0.00	0.84	8.09	8.93	69.81	21.26

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	5885	0	119.8	43.6	-0.9	402	0.23
	Haryana	6413	0	124.6	89.5	-0.5	186	0.00
	Rajasthan	11118	0	220.0	44.9	-6.1	115	0.00
	Delhi	3666	0	73.6	72.4	-1.0	97	0.00
	UP	18131	0	315.1	95.1	-1.4	543	0.00
	Uttarakhand	1983	0	38.0	24.2	0.4	148	0.07
	HP	1809	0	31.9	19.6	0.3	82	0.44
	J&K(UT) & Ladakh(UT)	2859	0	58.3	48.0	0.9	221	0.44
	Chandigarh	170	0	3.1	3.3	-0.2	11	0.00
	Railways_NR ISTS	153	0	3.2	3.2	0.1	12	0.00
WR	Chhattisgarh	5167	0	118.3	63.2	0.4	253	0.00
	Gujarat	18723	0	414.6	199.6	-2.0	1051	0.00
	MP	11409	0	238.5	130.6	-2.4	456	0.00
	Maharashtra	27434	0	560.1	198.2	3.3	1320	0.00
	Goa	686	0	13.8	13.7	-0.3	52	0.00
	DNHDDPDCL	1256	0	29.2	29.3	-0.1	26	0.00
	AMNSIL	784	0	17.1	7.0	0.5	297	0.00
	BALCO	517	0	12.3	12.4	-0.1	12	0.00
SR	Andhra Pradesh	11451	0	227.4	81.1	0.2	401	0.00
	Telangana	13792	0	270.3	132.6	0.8	588	0.00
	Karnataka	15280	0	292.9	135.3	1.0	1385	0.00
	Kerala	4205	0	86.8	72.1	-0.1	301	0.00
	Tamil Nadu	17743	0	370.3	221.8	-0.6	831	0.00
	Puducherry	427	0	9.6	9.8	-0.9	21	0.00
ER	Bihar	5461	0	101.5	90.3	-1.6	280	0.33
	DVC	3472	0	74.0	-47.7	-0.1	285	0.00
	Jharkhand	1381	57	31.4	22.5	0.3	125	1.44
	Odisha	5556	0	111.2	44.4	-1.4	460	0.00
	West Bengal	8590	0	190.0	46.6	-2.6	108	0.00
	Sikkim	102	0	1.6	1.5	0.1	50	0.00
NER	Arunachal Pradesh	156	0	2.6	2.6	-0.1	57	0.00
	Assam	1570	0	27.1	20.1	-0.5	142	0.00
	Manipur	193	0	2.8	2.8	-0.1	22	0.00
	Meghalaya	344	0	5.3	3.5	0.0	40	0.93
	Mizoram	118	0	1.8	1.6	-0.2	16	0.00
	Nagaland	128	0	2.1	2.2	-0.1	16	0.00
	Tripura	255	0	4.3	4.1	0.0	33	0.00

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

	Bhutan	Nepal	Bangladesh	Godda -> Bangladesh
Actual (MU)	1.1	-10.2	-24.4	-16.6
Day Peak (MW)	186.3	-461.2	-1075.0	-818.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	86.9	-155.9	218.8	-142.7	-7.1	0.0
Actual(MU)	70.3	-136.2	226.6	-157.0	-8.5	-4.8
O/D/U/D(MU)	-16.6	19.7	7.9	-14.4	-1.4	-4.8

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL	% Share
Central Sector	5537	13281	3238	1175	534	23764	46
State Sector	10155	12451	4251	890	247	27993	54
Total	15692	25731	7489	2065	781	51757	100

G. Sourcewise generation (Gross) (MU)

	NR	WR	SR	ER	NER	All India	% Share
Coal	627	1319	712	715	15	3388	74
Lignite	22	22	69	0	0	113	2
Hydro	122	69	73	43	15	321	7
Nuclear	30	34	70	0	0	134	3
Gas, Naptha & Diesel	8	15	7	0	31	60	1
RES (Wind, Solar, Biomass & Others)	179	192	180	6	1	559	12
Total	988	1651	1109	765	62	4575	100

Share of RES in total generation (%)	18.15	11.64	16.18	0.84	1.51	12.21
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	33.53	17.86	29.06	6.47	25.55	22.16

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.067
Based on State Max Demands	1.103

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: 06-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	297	0.0	7.1	-7.1
3	765 kV	GAYA-VARANASI	2	91	768	0.0	11.4	-11.4
4	765 kV	SASARAM-FATEHPUR	1	6	432	0.0	7.3	-7.3
5	765 kV	GAYA-BALIA	1	0	579	0.0	8.0	-8.0
6	400 kV	PUSAULI-VARANASI	1	0	199	0.0	3.5	-3.5
7	400 kV	PUSAULI - ALLAHABAD	1	0	190	0.0	3.5	-3.5
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	165	602	0.0	6.7	-6.7
9	400 kV	PATNA-BALIA	2	0	511	0.0	8.4	-8.4
10	400 kV	NAUBATPUR-BALIA	2	0	541	0.0	8.8	-8.8
11	400 kV	BIHARSHARIFF-BALIA	2	254	219	1.0	1.5	-0.5
12	400 kV	MOTIHARI-GORAKHPUR	2	88	450	0.0	6.2	-6.2
13	400 kV	BIHARSHARIFF-VARANASI	2	130	309	0.0	3.8	-3.8
14	220 kV	SAHUPURI-KARAMNASA	1	0	172	0.0	2.7	-2.7
15	132 kV	NAGAR UNTARI-RIHAND	1	0	0	0.0	0.0	0.0
16	132 kV	GARWAH-RIHAND	1	25	0	0.6	0.0	0.6
17	132 kV	KARMANASA-SAHUPURI	1	0	42	0.0	0.0	0.0
18	132 kV	KARMANASA-CHANDAULI	1	0	0	0.0	0.0	0.0
					ER-NR	1.6	78.8	-77.2
Import/Export of ER (With WR)								
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	1278	249	12.6	0.0	12.6
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	411	913	0.0	7.2	-7.2
3	765 kV	JHARSUGUDA-DURG	2	0	994	0.0	18.0	-18.0
4	400 kV	JHARSUGUDA-RAIGARH	4	0	667	0.0	10.0	-10.0
5	400 kV	RANCHI-SIPAT	2	11	276	0.0	2.7	-2.7
6	220 kV	BUDHIPADAR-RAIGARH	1	0	136	0.0	2.4	-2.4
7	220 kV	BUDHIPADAR-KORBA	2	98	43	0.1	0.0	0.1
					ER-WR	12.8	40.4	-27.6
Import/Export of ER (With SR)								
1	HVDC	JEYPORE-GAZUWAKA B/B	2	0	353	0.0	7.5	-7.5
2	HVDC	TALCHER-KOLAR BIPOLE	2	0	1990	0.0	47.1	-47.1
3	765 kV	ANGUL-SRIKAKULAM	2	0	3000	0.0	57.6	-57.6
4	400 kV	TALCHER-I/C	2	292	246	0.0	2.7	-2.7
5	220 kV	BALIMELA-UPPER-SILERRU	1	0	0	0.0	0.0	0.0
					ER-SR	0.0	112.1	-112.1
Import/Export of ER (With NER)								
1	400 kV	BINAGURI-BONGAIGAON	2	228	48	2.4	0.0	2.3
2	400 kV	ALIPURDUAR-BONGAIGAON	2	386	0	5.0	0.0	5.0
3	220 kV	ALIPURDUAR-SALAKATI	2	84	4	1.0	0.0	1.0
					ER-NER	8.4	0.0	8.3
Import/Export of <null> (With <null>)								
No Records Found								
					NER-NR	0.0	0.0	0.0
Import/Export of WR (With NR)								
1	HVDC	CHAMPA-KURUKSHETRA	2	0	795	0.0	19.1	-19.1
2	HVDC	VINDHYACHAL B/B	-	447	0	12.2	0.0	12.2
3	HVDC	MUNDRA-MOHINDERGARH	2	0	1002	22.5	0.0	22.5
4	765 kV	GWALIOR-AGRA	2	0	1810	0.0	24.0	-24.0
5	765 kV	GWALIOR-PHAGI	2	527	1766	0.0	23.0	-23.0
6	765 kV	JABALPUR-ORAI	2	205	672	0.0	15.2	-15.2
7	765 kV	GWALIOR-ORAI	1	968	0	16.5	0.0	16.5
8	765 kV	SATNA-ORAI	1	0	897	0.0	18.2	-18.2
9	765 kV	BANASKANTHA-CHITORGARH	2	2304	0	35.1	0.0	35.1
10	765 kV	VINDHYACHAL-VARANASI	2	0	2291	0.0	32.1	-32.1
11	400 kV	ZERDA-KANKROLI	1	409	0	6.6	0.0	6.6
12	400 kV	ZERDA -BHINMAL	1	722	0	9.7	0.0	9.7
13	400 kV	VINDHYACHAL -RIHAND	1	960	0	21.9	0.0	21.9
14	400 kV	RAPP-SHUJALPUR	2	676	261	2.8	0.0	2.8
15	220 kV	BHANPURA-RANPUR	1	0	0	0.0	0.0	0.0
16	220 kV	BHANPURA-MORAK	1	0	30	0.0	0.0	0.0
17	220 kV	MEHGAON-AURAIYA	1	93	0	0.7	0.0	0.7
18	220 kV	MALANPUR-AURAIYA	1	76	0	1.0	0.0	1.0
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	129.0	131.7	-2.8
Import/Export of WR (With SR)								
1	HVDC	BHADRAWATI B/B	-	0	1016	0.0	15.4	-15.4
2	HVDC	RAIGARH-PUGALUR	2	0	6021	0.0	105.1	-105.1
3	765 kV	SOLAPUR-RAICHUR	2	715	1558	0.0	12.3	-12.3
4	765 kV	WARDHA-NIZAMABAD	2	0	2975	0.0	49.6	-49.6
5	400 kV	KOLHAPUR-KUDGI	2	1279	0	19.1	0.0	19.1
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	120	2.4	0.0	2.4
					WR-SR	21.5	182.3	-160.8

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)	-73	71	-34	-0.81
	ER	400kV TALA-BINAGURI 1,2,4 (& 400kV MALBASE - BINAGURI) i.e. BINAGURI RECEIPT (from TALA HEP 6*170MW)	240	124	171	4.09
	ER	220kV CHUKHA-BIRPARA 1&2 (& 220kV MALBASE - BIRPARA) i.e. BIRPARA RECEIPT (from CHUKHA HEP 4*84MW)	-131	-34	-82	-1.97
	NER	132kV GELEPHU-SALAKATI	-15	-1	-7	-0.18
	NER	132kV MOTANGA-RANGIA	0	0	0	0.00
NEPAL	NR	132kV MAHENDRANAGAR-TANAKPUR(NHPC)	-67	0	-51	-1.22
	ER	NEPAL IMPORT (FROM BIHAR)	-97	-80	-89	-2.14
	ER	400kV DHALKEBAR-MUZAFFARPUR 1&2	-297	-241	-286	-6.86
BANGLADESH	ER	BHERAMARA B/B HVDC (B'DESH)	-912	-809	-880	-21.11
	ER (Isolated from Indian Grid)	400kV GODDA_TPS-RAHANPUR (B'DESH) D/C	-818	0	-691	-16.59
	NER	132kV COMILLA-SURAJMANI NAGAR 1&2	-163	0	-138	-3.32