



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: 10th 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 09.04.2023.

महोदय/Dear Sir,

आईईजीसी-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 09-अप्रैल-2023 की अखिल भारतीय प्रणाली की दैनिक ग्रीड निष्पादन रिपोर्ट रांभांप्रेके 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 09th April 2023, is available at the NLDC website.

धन्यवाद,

Report for previous day

Date of Reporting: 10-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)	48418	56338	44458	24661	2622	176497
Peak Shortage (MW)	0	0	0	303	73	376
Energy Met (MU)	1005	1378	1188	531	49	4151
Hydro Gen (MU)	117	28	65	39	9	259
Wind Gen (MU)	20	55	47	-	-	121
Solar Gen (MU)*	141.36	62.94	123.26	3.22	1.12	332
Energy Shortage (MU)	1.16	0.00	0.00	4.86	1.49	7.51
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	50128	61900	55426	24839	2727	182654
Time Of Maximum Demand Met (From NLDC SCADA)	19:48	15:02	11:58	19:48	18:46	10:57

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	0.88	8.27	9.15	68.65	22.20

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	6066	0	123.2	34.0	-1.7	142	0.35
	Haryana	5979	0	115.0	83.4	-2.5	57	0.00
	Rajasthan	11670	0	231.2	53.8	-3.4	125	0.00
	Delhi	3409	0	70.7	69.9	-1.7	78	0.00
	UP	19078	0	336.9	106.7	0.1	667	0.01
	Uttarakhand	1864	0	36.4	25.4	0.3	127	0.26
	HP	1562	0	29.5	18.0	0.1	43	0.00
	J&K(UT) & Ladakh(UT)	2794	0	55.5	47.6	-0.9	180	0.54
	Chandigarh	169	0	3.1	3.1	0.0	20	0.00
	Railways NR ISTS	150	0	3.1	3.2	-0.1	11	0.00
WR	Chhattisgarh	5014	0	117.5	59.0	-0.6	179	0.00
	Gujarat	18934	0	420.8	194.8	2.4	1500	0.00
	MP	10990	0	232.9	132.3	-3.5	316	0.00
	Maharashtra	24808	0	534.1	177.2	-0.3	706	0.00
	Goa	678	0	14.3	13.4	0.4	44	0.00
	DNHDDPDCL	1220	0	28.2	28.5	-0.3	113	0.00
	AMNSIL	791	0	17.8	8.8	0.0	299	0.00
	BALCO	521	0	12.4	12.4	0.0	11	0.00
	Andhra Pradesh	11177	0	226.9	85.4	-1.6	633	0.00
	Telangana	12488	0	253.6	131.4	1.4	583	0.00
SR	Karnataka	13401	0	268.4	115.8	-3.4	753	0.00
	Kerala	4003	0	82.5	62.7	-0.5	188	0.00
	Tamil Nadu	15616	0	347.9	222.0	0.7	805	0.00
	Puducherry	392	0	9.1	9.3	-0.9	4	0.00
	Bihar	5837	0	110.7	98.5	-0.8	252	0.36
ER	DVC	3560	0	75.8	-47.1	0.0	312	0.00
	Jharkhand	1443	89	32.1	22.7	0.8	191	4.50
	Odisha	6069	0	117.0	51.8	-2.5	352	0.00
	West Bengal	8874	0	194.3	57.6	-2.6	132	0.00
	Sikkim	79	0	1.2	1.3	-0.1	32	0.00
NER	Arunachal Pradesh	152	0	2.6	2.3	0.2	58	0.00
	Assam	1682	0	30.6	23.0	0.7	143	0.00
	Manipur	175	0	2.5	2.6	-0.2	31	0.00
	Meghalaya	279	63	5.1	3.2	0.2	41	1.49
	Mizoram	103	0	1.7	1.5	-0.3	7	0.00
	Nagaland	134	0	2.0	2.1	-0.1	21	0.00
Tripura	278	0	4.4	5.3	0.3	52	0.00	

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

	Bhutan	Nepal	Bangladesh	Godda -> Bangladesh
Actual (MU)	-0.6	-12.1	-24.1	-13.6
Day Peak (MW)	-324.0	-556.6	-1054.0	-770.2

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	68.9	-185.3	220.5	-101.6	-2.5	0.0
Actual(MU)	51.2	-173.1	218.7	-102.2	-0.3	-5.8
O/D/U/D(MU)	-17.7	12.2	-1.8	-0.6	2.1	-5.8

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL	% Share
Central Sector	4037	12106	4298	1775	534	22749	44
State Sector	11120	11048	5211	1230	348	28956	56
Total	15157	23154	9509	3005	882	51705	100

G. Sourcewise generation (Gross) (MU)

	NR	WR	SR	ER	NER	All India	% Share
Coal	658	1454	644	687	15	3458	77
Lignite	27	18	62	0	0	108	2
Hydro	117	28	65	39	9	259	6
Nuclear	30	34	70	0	0	134	3
Gas, Naptha & Diesel	7	11	6	0	30	54	1
RES (Wind, Solar, Biomass & Others)	181	119	198	4	1	503	11
Total	1020	1665	1045	730	56	4516	100

Share of RES in total generation (%)	17.78	7.16	18.91	0.53	2.02	11.14
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	32.26	10.92	31.77	5.91	18.59	19.85

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.068
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: 10-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	7.0	-7.0	
3	765 kV	GAYA-VARANASI	2	405	666	0.0	7.3	-7.3	
4	765 kV	SASARAM-FAITEHPUR	1	125	396	0.0	5.0	-5.0	
5	765 kV	GAYA-BALIA	1	0	557	0.0	6.7	-6.7	
6	400 kV	PUSAULI-VARANASI	1	0	244	0.0	4.4	-4.4	
7	400 kV	PUSAULI-ALLAHABAD	1	0	158	0.0	2.6	-2.6	
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	359	594	0.0	3.9	-3.9	
9	400 kV	PATNA-BALIA	2	79	498	0.0	7.0	-7.0	
10	400 kV	NAIBATTI-R-BALIA	2	114	469	0.0	6.5	-6.5	
11	400 kV	BIHARSHARIFE-BALIA	2	375	207	1.2	0.0	1.2	
12	400 kV	MOTIHARI-GORAKHPUR	2	135	488	0.0	5.9	-5.9	
13	400 kV	BIHARSHARIFE-VARANASI	2	250	237	0.0	1.4	-1.4	
14	220 kV	SAHUPUR-BAKRAMANASA	1	0	170	0.0	2.5	-2.5	
15	132 kV	NAGARUNTARI-RIHAND	1	0	0	0.0	0.0	0.0	
16	132 kV	GARWAH-RIHAND	1	25	0	0.5	0.0	0.5	
17	132 kV	KARMANASA-SAHUPURI	1	0	51	0.0	0.0	0.0	
18	132 kV	KARMANASA-CHANDALI	1	0	0	0.0	0.0	0.0	
						ER-NR	1.6	60.1	-58.5
Import/Export of ER (With WR)									
1	765 kV	JHARSUGUDA-DHARAMJAGARH	4	1692	0	26.1	0.0	26.1	
2	765 kV	NEW RANCHI-DHARAMJAGARH	2	469	691	0.0	0.9	-0.9	
3	765 kV	JHARSUGUDA-DURG	2	0	776	0.0	13.1	-13.1	
4	400 kV	JHARSUGUDA-RAIGARH	4	0	638	0.0	10.3	-10.3	
5	400 kV	RANCHI-SIPA	2	64	251	0.0	2.6	-2.6	
6	220 kV	BUDDHIPADAR-RAIGARH	1	0	140	0.0	2.2	-2.2	
7	220 kV	BUDDHIPADAR-KORBA	2	108	30	0.9	0.0	0.9	
						ER-WR	27.0	29.2	-2.2
Import/Export of ER (With SR)									
1	HVDC	JEYPORE-GAZIWAKA B/B	2	0	651	0.0	13.3	-13.3	
2	HVDC	TALCHER-KOLAR BIPPLE	2	0	1932	0.0	39.6	-39.6	
3	765 kV	ANGUL-SRIKAKULAM	2	0	2989	0.0	56.2	-56.2	
4	400 kV	TALCHER-I/C	2	312	103	5.2	0.0	5.2	
5	220 kV	BALIMELA-UPPER-SILERRU	1	0	0	0.0	0.0	0.0	
						ER-SR	0.0	109.1	-109.1
Import/Export of ER (With NER)									
1	400 kV	BINAGURI-BONGAIGAOON	2	226	0	3.0	0.0	3.0	
2	400 kV	ALIPURDUAR-BONGAIGAOON	2	725	0	10.7	0.0	10.7	
3	220 kV	ALIPURDUAR-SALAKATI	2	126	0	1.7	0.0	1.7	
						ER-NER	15.4	0.0	15.4
Import/Export of NER (With NR)									
1	HVDC	BISWANATH CHARIALI-AGRA	2	659	0	15.8	0.0	15.8	
						NER-NR	15.8	0.0	15.8
Import/Export of WR (With NR)									
1	HVDC	CHAMPA-KURKSHETRA	2	0	495	0.0	9.1	-9.1	
2	HVDC	VINDHYACHAL-B/B	-	138	0	3.6	0.0	3.6	
3	HVDC	MUNDRA-MOHINDERGARH	2	0	1000	0.0	9.7	-9.7	
4	765 kV	GWALIOR-AGRA	2	101	2195	0.0	25.7	-25.7	
5	765 kV	GWALIOR-PHAGI	2	360	1908	0.9	25.8	-24.9	
6	765 kV	JABALPUR-ORAI	2	111	961	0.0	16.3	-16.3	
7	765 kV	GWALIOR-ORAI	1	1065	0	17.1	0.0	17.1	
8	765 kV	SATNA-ORAI	1	0	1087	0.0	18.2	-18.2	
9	765 kV	BANASKANTHA-CHITORGARH	2	2402	0	35.3	0.0	35.3	
10	765 kV	VINDHYACHAL-VARANASI	2	0	2178	0.0	31.2	-31.2	
11	400 kV	ZERDA-KANKROLI	1	453	0	6.6	0.0	6.6	
12	400 kV	ZERDA-BHINMAL	1	807	0	10.5	0.0	10.5	
13	400 kV	VINDHYACHAL-RIHAND	1	855	0	20.7	0.0	20.7	
14	400 kV	RAPS-SHILAIPTUR	2	620	480	4.2	3.0	1.5	
15	220 kV	BHANPURA-BANPUR	1	0	0	0.0	0.0	0.0	
16	220 kV	BHANPURA-MORAK	1	0	30	0.0	0.0	0.0	
17	220 kV	MEHGAON-AURAIYA	1	100	0	0.7	0.0	0.7	
18	220 kV	MALANPUR-AURAIYA	1	83	0	1.0	0.0	1.0	
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	110.6	129.3	-18.7
Import/Export of WR (With SR)									
1	HVDC	BHADRAWATI-B/B	-	0	1016	0.0	24.0	-24.0	
2	HVDC	BAHARH-PUGAUR	2	0	6017	0.0	102.8	-102.8	
3	765 kV	KOLHAPUR-KAICHULP	2	793	1668	2.4	12.1	-9.8	
4	765 kV	WARDHA-NIZAMABAD	2	0	2856	0.0	43.6	-43.6	
5	400 kV	KOLHAPUR-KUDGI	2	1257	0	21.2	0.0	21.2	
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	132	2.6	0.0	2.6	
						WR-SR	26.2	182.5	-156.4
INTERNATIONAL EXCHANGES									
State	Region	Line Name		Max (MW)	Min (MW)	Avg (MW)	Import(+ve)/Export(-ve) Energy Exchange (MU)		
BHUTAN	ER	400kV MANGDECHHU-ALIPURDUAR 1,2&3 I.e. ALIPURDUAR RECEIPT (from MANGDECHHU IEP 4180MW)		-166	49	-36	-0.87		
	ER	400kV TALA-BINAGURI 1,2,4 (& 400kV MALBASE - BINAGURI) I.e. BINAGURI RECEIPT (from TALA IEP 6170MW)		189	-87	103	2.47		
	ER	220kV CHUKHA-BIRPARA 1&2 (& 220kV MALBASE - BIRPARA) I.e. BIRPARA RECEIPT (from CHUKHA IEP 4384MW)		-158	-61	-104	-2.49		
	NER	132kV GELEPHU-SALAKATI		22	7	14	0.33		
NEPAL	NER	132kV MOTANGA-RANGIA		0	0	0	0.00		
	ER	132kV MAHENDRANAGAR-TANAKPUR(NHPC)		-73	0	-59	-1.42		
BANGLADESH	ER	400kV DHALKEBAR-MUZAFFARPUR 1&2		-386	-231	-358	-8.60		
	ER (Isolated from Indian Grid)	BHERAMARA B/B HVDC (B'DESH)		-926	-822	-897	-21.52		
	ER	400kV GODDA_TPS-RAHANPUR (B'DESH) D/C		-770	39	-567	-13.61		
	NER	132kV COMILLA-SURAJMANI NAGAR 1&2		-128	0	-109	-2.62		