



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: 18th 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 17.04.2023.

महोदय/Dear Sir,

आई०ई०जी०सी०-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 17-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 17th April 2023, is available at the NLDC website.

धन्यवाद,

Report for previous day

Date of Reporting: 18-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)	59936	62760	51325	27455	3096	204572
Peak Shortage (MW)	879	177	0	479	57	1592
Energy Met (MU)	1263	1509	1287	605	57	4721
Hydro Gen (MU)	160	47	89	44	9	350
Wind Gen (MU)	27	76	40	-	-	143
Solar Gen (MU)*	139.44	67.58	129.62	3.34	1.02	341
Energy Shortage (MU)	11.54	3.94	0.00	5.26	1.79	22.53
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	60685	69436	62500	27928	3157	210829
Time Of Maximum Demand Met (From NLDC SCADA)	20:41	15:15	14:59	21:34	19:01	15:00

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	0.079	0.73	1.81	9.66	12.20	59.19	28.61

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	7922	0	159.7	46.1	-0.7	158	0.23
	Haryana	8186	0	155.4	87.6	-0.5	251	3.08
	Rajasthan	13385	0	281.3	69.6	-1.3	243	2.67
	Delhi	5059	0	101.1	94.8	-3.2	103	0.00
	UP	22211	235	425.5	151.1	-0.2	779	3.05
	Uttarakhand	2228	0	42.4	26.6	0.5	124	0.89
	HP	1602	0	31.5	17.2	-0.2	77	0.00
	J&K(UT) & Ladakh(UT)	2793	135	57.5	41.3	2.0	580	1.62
	Chandigarh	248	0	4.9	4.9	0.0	26	0.00
	Railways NR ISTS	175	0	3.8	3.1	0.8	54	0.00
WR	Chhattisgarh	5574	7	128.1	74.5	-0.2	322	2.61
	Gujarat	21166	0	456.1	183.7	0.9	1055	0.00
	MP	12244	0	266.2	143.1	-2.7	569	0.00
	Maharashtra	27899	0	584.9	191.8	1.0	1213	1.33
	Goa	743	0	15.0	15.3	-0.8	73	0.00
	DNHDDPDCL	1266	0	29.1	29.2	-0.1	102	0.00
	AMNSIL	819	0	17.7	8.1	-0.1	245	0.00
	BALCO	517	0	12.3	12.5	-0.2	0	0.00
	Andhra Pradesh	12093	0	244.4	97.7	-1.8	821	0.00
	Telangana	12708	0	250.6	112.4	0.7	751	0.00
SR	Karnataka	15790	0	301.3	120.8	1.8	958	0.00
	Kerala	4894	0	100.6	69.3	0.7	313	0.00
	Tamil Nadu	18563	0	380.5	238.2	-0.5	683	0.00
	Puducherry	427	0	9.5	9.4	-0.6	31	0.00
	Bihar	6143	209	127.2	115.9	-1.8	218	1.35
ER	DVC	3547	0	77.1	-45.2	0.5	285	0.00
	Jharkhand	1652	238	35.2	29.3	-2.8	134	3.91
	Odisha	6370	0	128.8	48.8	-2.1	345	0.00
	West Bengal	11438	0	234.8	93.8	-1.4	359	0.00
	Sikkim	99	0	1.6	1.1	0.4	68	0.00
NER	Arunachal Pradesh	154	0	2.6	2.4	0.1	54	0.00
	Assam	1969	0	35.6	28.2	0.7	331	0.46
	Manipur	204	26	2.8	2.6	0.2	38	0.09
	Meghalaya	300	38	5.3	3.3	0.6	79	1.24
	Mizoram	124	0	2.0	1.4	-0.1	9	0.00
	Nagaland	146	0	2.4	2.6	-0.2	21	0.00
	Tripura	336	0	6.4	5.2	0.8	94	0.00

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

	Bhutan	Nepal	Bangladesh	Godda -> Bangladesh
Actual (MU)	2.2	-13.3	-24.9	-18.3
Day Peak (MW)	246.0	-752.7	-1102.0	-794.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	95.8	-224.7	191.1	-65.0	2.8	0.0
Actual(MU)	71.7	-212.1	200.0	-70.9	5.9	-5.5
O/D/U/D(MU)	-24.1	12.6	8.9	-5.9	3.1	-5.5

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL	% Share
Central Sector	1280	8679	3708	1450	425	15542	45
State Sector	6590	8175	3296	970	229	19260	55
Total	7870	16854	7004	2420	654	34802	100

G. Sourcewise generation (Gross) (MU)

	NR	WR	SR	ER	NER	All India	% Share
Coal	836	1572	744	717	17	3886	76
Lignite	16	15	65	0	0	96	2
Hydro	160	47	89	44	9	350	7
Nuclear	30	35	70	0	0	135	3
Gas, Naptha & Diesel	34	39	6	0	31	111	2
RES (Wind, Solar, Biomass & Others)	186	145	201	4	1	537	10
Total	1263	1854	1175	765	59	5115	100

Share of RES in total generation (%)	14.75	7.82	17.08	0.52	1.74	10.49
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	29.78	12.27	30.61	6.28	17.31	19.97

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.061
Based on State Max Demands	1.096

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: 18-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	PUSALI-B/B	-	2	0	0.0	0.0	0.0	
3	765 kV	GAYA-VARANASI	2	209	450	0.0	2.5	-2.5	
4	765 kV	SASARAM-FAITEHPUR	1	0	379	0.0	5.6	-5.6	
5	765 kV	GAYA-BALIA	1	0	546	0.0	7.3	-7.3	
6	400 kV	PUSALI-VARANASI	1	4	68	0.0	0.6	-0.6	
7	400 kV	PUSALI-ALLAHABAD	1	6.3	11	0.7	0.0	0.7	
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	485	341	0.0	0.2	-0.2	
9	400 kV	PATNA-BALIA	2	25	419	0.0	6.2	-6.2	
10	400 kV	NAIBATPUR-BALIA	2	54	424	0.0	6.0	-6.0	
11	400 kV	BIHARSHARIFE-BALIA	2	266	127	1.2	0.0	1.2	
12	400 kV	MOTIHARI-GORAKHPUR	2	173	353	0.0	3.8	-3.8	
13	400 kV	BIHARSHARIFE-VARANASI	2	217	190	0.0	0.5	-0.5	
14	220 kV	SAHUPUR-CHAMANASANA	1	0	230	0.0	3.5	-3.5	
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	24	0.0	0.0	0.0	
18	132 kV	KARMANASA-CHANDALI	1	0	0	0.0	0.0	0.0	
						ER-NR	2.5	36.0	-33.6
Import/Export of ER (With WR)									
1	765 kV	JHARSUGUDA-DHARAMJIAGARH	4	2108	0	30.3	0.0	30.3	
2	765 kV	NEW RANCHI-DHARAMJIAGARH	2	1113	595	9.2	0.0	9.2	
3	765 kV	JHARSUGUDA-DURG	2	0	751	0.0	10.1	-10.1	
4	400 kV	JHARSUGUDA-RAIGARH	4	0	598	0.0	7.9	-7.9	
5	400 kV	RANCHI-SIPA	2	191	235	0.1	0.0	0.1	
6	220 kV	BUDDHIPADAR-RAIGARH	1	0	130	0.0	1.8	-1.8	
7	220 kV	BUDDHIPADAR-KORBA	2	88	15	0.9	0.0	0.9	
						ER-WR	40.6	19.9	20.7
Import/Export of ER (With SR)									
1	HVDC	JEYPORE-GAZIWAQA B/B	2	0	654	0.0	15.1	-15.1	
2	HVDC	TALCHER-KOLARIPPLE	2	0	1642	0.0	39.6	-39.6	
3	765 kV	ANGUL-SRIKAKULAM	2	0	2893	0.0	52.0	-52.0	
4	400 kV	TALCHER-I/C	2	269	0	5.0	0.0	5.0	
5	220 kV	BALIMELA-UPPER-SILERRU	1	0	0	0.0	0.0	0.0	
						ER-SR	0.0	106.7	-106.7
Import/Export of ER (With NER)									
1	400 kV	BINAGURI-BONGAIGAOON	2	106	63	0.9	0.2	0.7	
2	400 kV	ALIPURDUAR-BONGAIGAOON	2	361	92	3.5	0.0	3.5	
3	220 kV	ALIPURDUAR-SALAKATI	2	62	22	0.6	0.0	0.6	
						ER-NER	5.0	0.2	4.7
Import/Export of NER (With NR)									
1	HVDC	BISWANATH CHARIALI-AGRA	2	483	0	10.0	0.0	10.0	
						NER-NR	10.0	0.0	10.0
Import/Export of WR (With NR)									
1	HVDC	CHAMPA-KURUKSHETRA	2	0	1497	0.0	35.1	-35.1	
2	HVDC	VINDHYACHAL-B/B	-	438	0	10.3	0.0	10.3	
3	HVDC	MUNDRA-MOHINDERGARH	2	0	788	0.0	10.8	-10.8	
4	765 kV	GWALIOR-AGRA	2	348	1687	0.2	18.5	-18.3	
5	765 kV	GWALIOR-PHAGI	2	524	1392	1.7	16.6	-14.9	
6	765 kV	JABALPUR-ORAI	2	41	690	0.0	12.3	-12.3	
7	765 kV	GWALIOR-ORAI	1	812	0	12.0	0.0	12.0	
8	765 kV	SATNA-ORAI	1	0	994	0.0	17.5	-17.5	
9	765 kV	BANASKANTHA-CHITORGARH	2	2557	0	34.4	0.0	34.4	
10	765 kV	VINDHYACHAL-VARANASI	2	0	2936	0.0	41.7	-41.7	
11	400 kV	ZERDA-KANKROLL	1	438	56	6.1	0.0	6.1	
12	400 kV	ZERDA-BHINMAL	1	721	0	8.8	0.0	8.8	
13	400 kV	VINDHYACHAL-RIHAND	1	980	0	22.0	0.0	22.0	
14	400 kV	RAPS-SHILAIPIR	2	658	230	4.3	1.5	3.3	
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	114	0	1.5	0.0	1.5	
18	220 kV	MALANPUR-AURAIYA	1	96	0	1.2	0.0	1.2	
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	102.9	154.1	-51.1
Import/Export of WR (With SR)									
1	HVDC	BHADRAWATI-B/B	-	0	1016	0.0	14.3	-14.3	
2	HVDC	BAHARH-PUGAUR	2	0	6016	0.0	52.6	-52.6	
3	765 kV	KOLHAPUR-RAICHUR	2	40	1731	0.0	14.7	-14.7	
4	765 kV	WARDHA-NIZAMABAD	2	0	3139	0.0	51.0	-51.0	
5	400 kV	KOLHAPUR-KUDGI	2	1064	0	19.6	0.0	19.6	
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	129	2.6	0.0	2.6	
						WR-SR	22.2	162.5	-140.4

INTERNATIONAL EXCHANGES

State	Region	Line Name	Max (MW)	Min (MW)	Import(+ve)/Export(-ve)	
					Avg (MW)	Energy Exchange (MU)
BHUTAN	ER	400kV MANGDECHHU-ALIPURDUAR T.2&3 I.e. ALIPURDUAR RECEIPT (from MANGDECHHU HEP 4180MW)	158	-27	60	1.43
	ER	400kV TALA-BINAGURI T.2,4 (& 400kV MALBASE - BINAGURI) I.e. BINAGURI RECEIPT (from TALA HEP 6170MW)	222	74	130	3.11
	ER	220kV CHUKHA-BIRPARA T.2 (& 220kV MALBASE - BIRPARA) I.e. BIRPARA RECEIPT (from CHUKHA HEP 4384MW)	-109	-33	-73	-1.75
	NER	132kV GELEPHU-SALAKATI	-8	6	1	0.03
NEPAL	NER	132kV MOTANGA-RANGIA	-41	7	-28	-0.68
	NR	132kV MAHENDRANAGAR-TANAKPUR(NHPC)	-78	0	-65	-1.55
BANGLADESH	ER	400kV DHALKEBAR-MUZAFFARPUR 1&2	-536	-235	-414	-9.94
	ER (Isolated from Indian Grid)	BHERAMARA B/B HVDC (B'DESH) 400kV GODDA_TPS-RAHANPUR (B'DESH) D/C	-949 -794	-652 -702	-904 -762	-21.70 -18.28
	NER	132kV COMILLA-SURAJMANI NAGAR 1&2	-153	0	-135	-3.24