



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: 21th 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 20.04.2023.

महोदय/Dear Sir,

आई०ई०जी०सी०-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 20-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 20th April 2023, is available at the NLDC website.

धन्यवाद,

Report for previous day

Date of Reporting:

21-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)	56963	59470	51919	26647	2696	197695
Peak Shortage (MW)	0	0	0	0	55	55
Energy Met (MU)	1263	1505	1328	608	49	4753
Hydro Gen (MU)	219	39	76	54	14	401
Wind Gen (MU)	21	117	61	-	-	199
Solar Gen (MU)*	132.92	63.88	121.84	2.66	1.08	322
Energy Shortage (MU)	1.68	0.00	0.00	2.91	1.42	6.01
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	57635	68595	63794	28763	2911	211804
Time Of Maximum Demand Met (From NLDC SCADA)	19:49	14:36	14:52	00:00	18:20	14:56

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	0.042	0.00	0.00	4.96	4.96	69.15	25.89

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	6708	0	141.7	40.4	-2.7	58	0.00
	Haryana	8047	0	161.0	99.0	-3.4	164	0.23
	Rajasthan	13198	0	273.5	64.8	-5.9	202	1.40
	Delhi	5028	0	103.9	92.4	-2.4	84	0.00
	UP	21870	0	443.2	172.7	-1.2	353	0.00
	Uttarakhand	2143	0	44.3	23.2	-0.1	128	0.00
	HP	1555	0	28.9	8.4	0.2	66	0.00
	J&K(UT) & Ladakh(UT)	2784	0	57.5	37.2	-0.3	196	0.05
	Chandigarh	237	0	4.8	5.3	-0.4	23	0.00
	Railways NR ISTS	177	0	3.8	3.2	0.7	62	0.00
WR	Chhattisgarh	5456	0	123.7	65.6	-2.6	273	0.00
	Gujarat	21202	0	459.9	155.8	-0.5	907	0.00
	MP	11525	0	247.8	139.8	-4.1	511	0.00
	Maharashtra	28305	0	596.5	194.3	-1.5	879	0.00
	Goa	730	0	15.7	15.7	-0.5	61	0.00
	DNHDDPDCL	1267	0	29.5	30.1	-0.6	24	0.00
	AMNSIL	867	0	19.2	6.6	0.3	301	0.00
	BALCO	519	0	12.4	12.5	-0.1	5	0.00
	Andhra Pradesh	12318	0	247.8	112.2	-0.3	402	0.00
	Telangana	12322	0	242.5	108.3	-1.7	411	0.00
SR	Karnataka	16110	0	309.5	117.5	0.9	720	0.00
	Kerala	4958	0	102.6	73.3	0.2	229	0.00
	Tamil Nadu	19387	0	415.4	244.9	-0.8	487	0.00
	Puducherry	467	0	10.5	10.4	-0.6	34	0.00
	Bihar	6448	0	127.4	120.0	-0.1	346	2.80
ER	DVC	3695	0	80.9	-42.4	0.2	201	0.00
	Jharkhand	1791	0	35.9	31.5	-3.4	80	0.11
	Odisha	6280	0	124.8	42.3	-1.6	436	0.00
	West Bengal	11354	0	237.9	100.6	-3.3	205	0.00
	Sikkim	91	0	1.4	1.3	0.1	61	0.00
NER	Arunachal Pradesh	129	0	2.3	2.8	-0.6	20	0.00
	Assam	1814	0	29.1	21.7	0.8	168	0.00
	Manipur	180	0	2.0	2.4	-0.4	24	0.00
	Meghalaya	274	80	4.4	3.8	-0.1	75	1.42
	Mizoram	119	0	2.0	1.6	-0.2	7	0.00
	Nagaland	150	0	2.2	2.4	-0.2	16	0.00
	Tripura	324	0	6.5	5.5	0.0	60	0.00

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

	Bhutan	Nepal	Bangladesh	Godda -> Bangladesh
Actual (MU)	5.4	-12.6	-24.8	-18.0
Day Peak (MW)	592.1	-823.9	-1090.0	-800.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	88.7	-246.7	212.1	-50.0	-4.1	0.0
Actual(MU)	58.9	-232.2	227.8	-55.1	-5.8	-6.4
O/D/U/D(MU)	-29.8	14.6	15.7	-5.2	-1.8	-6.4

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL	% Share
Central Sector	3227	10571	3498	1900	460	19656	54
State Sector	5345	7761	2138	1500	250	16994	46
Total	8572	18332	5636	3400	710	36649	100

G. Sourcewise generation (Gross) (MU)

	NR	WR	SR	ER	NER	All India	% Share
Coal	817	1579	771	688	16	3872	75
Lignite	25	17	61	0	0	102	2
Hydro	219	39	76	54	14	401	8
Nuclear	30	34	51	0	0	116	2
Gas, Naptha & Diesel	22	11	6	0	31	71	1
RES (Wind, Solar, Biomass & Others)	174	182	216	3	1	576	11
Total	1287	1862	1181	745	62	5137	100

Share of RES in total generation (%)	13.50	9.79	18.25	0.42	1.74	11.21
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	32.88	13.71	29.00	7.64	23.66	21.27

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.047
Based on State Max Demands	1.085

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)

INTER-REGIONAL EXCHANGES

Import=(+ve)/Export =(-ve) for NET (MU)
Date of Reporting: 21-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-BB	-	0	95	0.0	2.5	-2.5	
3	765 kV	GAYA-VARANASI	2	281	444	0.0	1.8	-1.8	
4	765 kV	SASARAM-FAITEHPUR	1	96	268	0.0	3.1	-3.1	
5	765 kV	GAYA-BALIA	1	0	471	0.0	6.8	-6.8	
6	400 kV	PUSAULI-VARANASI	1	0	140	0.0	2.4	-2.4	
7	400 kV	PUSAULI-ALLAHABAD	1	35	38	0.1	0.0	0.1	
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	381	372	0.0	1.6	-1.6	
9	400 kV	PATNA-BALIA	2	24	413	0.0	5.1	-5.1	
10	400 kV	NAUBATPUR-BALIA	2	68	421	0.0	4.7	-4.7	
11	400 kV	BIHARSHARIFF-BALIA	2	281	145	0.7	0.0	0.7	
12	400 kV	MOTIHARI-GORAKHPUR	2	92	340	0.0	3.0	-3.0	
13	400 kV	BIHARSHARIFF-VARANASI	2	186	154	0.0	0.1	-0.1	
14	220 kV	SAHUPUR-KARAMANASA	1	0	185	0.0	3.3	-3.3	
15	132 kV	NAGAR UNTARI-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	19	0.0	0.0	0.0	
18	132 kV	KARMANASA-CHANDAUJI	1	0	0	0.0	0.0	0.0	
						ER-NR	1.3	34.2	-32.9
Import/Export of ER (With WR)									
1	765 kV	JHARSUGUDA-DHARAMJIAGARH	4	1851	0	30.8	0.0	30.8	
2	765 kV	NEW RANCHI-DHARAMJIAGARH	2	1215	0	286	12.1	12.1	
3	765 kV	JHARSUGUDA-ADURG	2	0	703	0.0	10.8	-10.8	
4	400 kV	JHARSUGUDA-RAIGARH	4	0	444	0.0	7.3	-7.3	
5	400 kV	RANCHI-SIPAT	2	234	137	0.0	0.3	0.3	
6	220 kV	BUDHIPADAR-RAIGARH	1	0	124	0.0	2.0	-2.0	
7	220 kV	BUDHIPADAR-KORBA	1	93	0	1.1	0.0	1.1	
						ER-WR	44.3	20.1	24.3
Import/Export of ER (With SR)									
1	HVDC	JEKYONGGA/ZUYAKA/B/B	2	0	654	0.0	15.1	-15.1	
2	HVDC	TALCHER-KOLAR BIPOLE	2	0	1641	0.0	39.6	-39.6	
3	765 kV	ANGUL-SRIKAKULAM	2	0	2719	0.0	54.9	-54.9	
4	400 kV	TALCHER-I/C	2	257	0	4.3	0.0	4.3	
5	220 kV	BALIMELA-UPPER-SILERRU	1	0	0	0.0	0.0	0.0	
						ER-SR	0.0	109.6	-109.6
Import/Export of ER (With NER)									
1	400 kV	BINAGURI-BONGAIGAON	2	258	0	3.2	0.0	3.2	
2	400 kV	ALIPURDUAR-BONGAIGAON	2	847	0	11.3	0.0	11.3	
3	220 kV	ALIPURDUAR-SALAKATI	2	172	0	2.2	0.0	2.2	
						ER-NER	16.7	0.0	16.7
Import/Export of NER (With NR)									
1	HVDC	BISWANATH CHARIALI-AGRA	2	482	0	10.7	0.0	10.7	
						NER-NR	10.7	0.0	10.7
Import/Export of WR (With NR)									
1	HVDC	CHAMPA-KURUSHETRA	2	0	1502	0.0	35.9	-35.9	
2	HVDC	VINDHYACHAL-B/B	-	0	364	0.0	7.4	-7.4	
3	HVDC	MUNDRA-MOHINDERGARH	2	0	1459	0.0	25.1	-25.1	
4	765 kV	GWALIOR-AGRA	2	240	1427	0.5	13.9	-13.4	
5	765 kV	GWALIOR-PHAGI	2	1005	1037	5.2	11.2	-6.0	
6	765 kV	JABALPUR-ORAI	2	255	634	0.0	8.5	-8.5	
7	765 kV	GWALIOR-ORAI	1	733	0	11.6	0.0	11.6	
8	765 kV	SATNA-ORAI	1	0	694	0.0	12.9	-12.9	
9	765 kV	BANASKANTHA-CHITTOGARH	2	2497	0	31.8	0.0	31.8	
10	765 kV	VINDHYACHAL-VARANASI	2	0	2336	0.0	34.4	-34.4	
11	400 kV	ZERDA-KANEROLI	1	452	0	6.2	0.0	6.2	
12	400 kV	ZERDA-BHIMMAL	1	799	0	9.1	0.0	9.1	
13	400 kV	VINDHYACHAL-RIHAND	1	955	0	21.7	0.0	21.7	
14	400 kV	BAPP-SHULALPUR	2	754	155	5.9	0.7	5.2	
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	NIHAGORA-AURAIYA	1	80	0	1.3	0.0	1.3	
18	220 kV	MALANPUR-AURAIYA	1	65	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	101.6	142.5	-41.0
Import/Export of WR (With SR)									
1	HVDC	BHADRAWATI/B/B	-	0	1016	0.0	23.3	-23.3	
2	HVDC	RAIGARH-PUGALUR	2	0	6019	0.0	104.0	-104.0	
3	765 kV	SOLAPUR-RAICHUR	2	0	1478	0.0	13.9	-13.9	
4	765 kV	WARDHA-NIZAMABAD	2	0	2768	0.0	48.9	-48.9	
5	400 kV	KOLHAPUR-KUDGI	2	1177	0	21.7	0.0	21.7	
6	220 kV	KOLHAPUR-CHIKODI	2	0	0	0.0	0.0	0.0	
7	220 kV	PINDA-AMBEWADI	1	0	0	0.0	0.0	0.0	
8	220 kV	NELDEM-AMBEWADI	1	0	118	2.4	0.0	2.4	
						WR-SR	24.1	190.1	-166.0
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 HEP 4*180MW)		220	-70	27	0.65		
	ER	400KV TALEX-BINAGURI 1,2,3 (& 400KV MALBASE - BINAGURI) I.e. BINAGURI RECEIPT (from TALA HEP 6*170MW)		494	133	274	6.58		
	ER	220KV CHUKHA-BIRPARA 1&2 (& 220KV MALBASE - BIRPARA) I.e. BIRPARA RECEIPT (from CHUKHA HEP 4*84MW)		-173	60	-77	-1.85		
	NER	132KV GELEPHU-SALAKATI		-24	-4	-11	-0.25		
	NER	132KV MOTANGA-RANGIA		34	3	12	0.29		
NEPAL	NR	132KV MAHENDRANAGAR-TANAKPUR(NHPC)		-77	0	-68	-1.63		
	ER	NEPAL IMPORT (FROM BIHAR)		-300	-16	-70	-1.67		
BANGLADESH	ER	400KV DHALKEBAR-MUZAFFARPUR 1&2		-447	-382	-388	-9.31		
	ER	BHERAMARA B/B HVDC (B'DESH)		-945	-822	-910	-21.83		
	ER (Isolated from Indian Grid)	400KV GODDA_TPS-RAHANPUR (B'DESH) D/C		-800	-702	-750	-18.00		
	NER	132KV COMILLA-SURAJMANI NAGAR 1&2		-145	0	-124	-2.98		