

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, कुतुब इन्स्टीट्यूशनल एरिया, कटवारिया सराये, न्यू दिल्ली-110016

Ref: POSOCO/NLDC/SO/Daily PSP Report

दिनांक: 22th April 2024

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 21.04.2024.

महोदय/Dear Sir,

आईंईंजींसीं-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 21-अप्रैल-2024 की अखिल भारतीय प्रणाली की दैनिक ग्रिड निष्पादन रिपोर्ट रांभांप्रेंकें 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 21th April 2024, is available at the NLDC website.

धन्यवाद,

Report for previous day

Date of Reporting: 22-Apr-2024

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)	57516	61291	48322	27285	2704	197118
Peak Shortage (MW)	0	0	0	0	0	0
Energy Met (MU)	1237	1534	1236	622	50	4679
Hydro Gen (MU)	171	39	38	30	13	290
Wind Gen (MU)	11	99	25	-	-	135
Solar Gen (MU)*	158.45	91.05	112.07	3.39	1.21	366
Energy Shortage (MU)	0.90	0.00	0.00	1.63	0.00	2.53
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	57905	68427	56806	29404	2787	209885
Time Of Maximum Demand Met	00:00	15:31	14:51	23:26	18:41	00:00

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	0.027	0.00	0.02	4.88	4.91	86.49	8.60

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	7868	0	144.4	48.5	-0.5	296	0.00
	Haryana	8133	0	148.9	82.3	-3.6	170	0.00
	Rajasthan	13366	0	270.7	63.7	-0.3	332	0.00
	Delhi	4552	0	94.2	81.4	0.6	208	0.00
	UP	22704	0	451.2	204.3	-8.0	671	0.00
	Uttarakhand	2104	0	43.3	22.8	1.3	179	0.16
	HP	1501	0	29.5	13.8	-0.2	27	0.08
	J&K(UT) & Ladakh(UT)	2326	195	46.3	31.4	1.2	211	0.66
	Chandigarh	213	0	4.1	4.1	0.0	20	0.00
Railways NR ISTS	188	0	4.0	3.9	0.1	39	0.00	
WR	Chhattisgarh	6022	0	137.4	78.4	-0.1	278	0.00
	Gujarat	20642	0	449.4	165.3	-3.6	677	0.00
	MP	12454	0	276.0	144.6	-4.7	573	0.00
	Maharashtra	26318	0	596.8	209.2	-6.4	755	0.00
	Goa	670	0	13.7	10.3	3.2	41	0.00
	DNHDDPDCL	1217	0	27.8	27.8	0.0	49	0.00
	AMNSIL	880	0	20.1	7.2	0.2	346	0.00
	BALCO	524	0	12.5	12.5	0.0	9	0.00
SR	Andhra Pradesh	12675	0	244.9	99.0	-1.2	536	0.00
	Telangana	9964	0	210.6	96.4	1.0	1037	0.00
	Karnataka	13157	0	272.6	132.7	-4.5	448	0.00
	Kerala	5097	0	97.1	82.2	-0.1	239	0.00
	Tamil Nadu	18063	0	400.1	253.4	-0.5	489	0.00
	Puducherry	461	0	10.5	10.1	-0.2	22	0.00
ER	Bihar	6605	0	130.7	119.5	0.1	498	1.02
	DVC	3394	0	73.3	-38.5	-0.7	352	0.00
	Jharkhand	1943	0	42.4	32.3	-2.2	207	0.61
	Odisha	6112	0	131.8	48.3	-0.9	331	0.00
	West Bengal	11831	0	243.1	100.1	-2.4	169	0.00
	Sikkim	75	0	1.2	1.3	-0.2	13	0.00
Railways ER ISTS	14	0	0.2	0.1	0.0	11	0.00	
NER	Arunachal Pradesh	149	0	2.5	2.6	-0.2	31	0.00
	Assam	1704	0	30.6	23.5	0.6	124	0.00
	Manipur	181	0	2.5	2.8	-0.3	19	0.00
	Meghalaya	318	0	5.6	5.0	-0.5	56	0.00
	Mizoram	103	0	1.7	1.7	-0.3	17	0.00
	Nagaland	137	0	1.7	1.9	-0.2	21	0.00
Tripura	298	0	5.9	5.7	0.6	60	0.00	

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

	Bhutan	Nepal	Bangladesh	Godda -> Bangladesh
Actual (MU)	2.9	-10.6	-24.5	-30.6
Day Peak (MW)	341.0	-706.3	-1082.0	-1487.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	120.1	-330.5	250.6	-43.9	3.7	0.0
Actual(MU)	115.9	-325.9	243.8	-41.0	4.2	-3.0
O/D/U/D(MU)	-4.2	4.7	-6.8	2.9	0.5	-3.0

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL	% Share
Central Sector	4098	7926	2868	3426	201	18518	48
State Sector	6776	7762	3993	1574	180	20284	52
Total	10874	15687	6861	4999	381	38802	100

G. Sourcewise generation (Gross) (MU)

	NR	WR	SR	ER	NER	All India	% Share
Coal	787	1649	707	720	14	3876	76
Lignite	24	15	68	0	0	107	2
Hydro	171	39	38	30	13	290	6
Nuclear	25	62	76	0	0	163	3
Gas, Naptha & Diesel	22	37	6	0	25	90	2
RES (Wind, Solar, Biomass & Others)	180	191	182	4	1	558	11
Total	1209	1993	1076	754	53	5085	100

Share of RES in total generation (%)	14.90	9.59	16.88	0.58	2.27	10.98
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	31.11	14.64	27.42	4.54	26.91	19.89

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.025
Based on State Max Demands	1.067

I. All India Peak Demand and shortage at Solar and Non-Solar Hour

	Max Demand Met(MW)	Time	Shortage(MW)
Solar hr	197744	10:28	195
Non-Solar hr	209885	0:00	789

Diversity factor = Sum of regional or state maximum demands / All India maximum demand

**Note: All generation MU figures are gross

***Godda (Jharkhand) -> Bangladesh power exchange is through the radial connection (isolated from Indian Grid)

Solar Hours -> 07:00 to 17:00hrs and rest are Non-Solar Hours

*Source: RLDCs for solar connected to ISTS; SLDCs for embedded solar. Limited visibility of embedded solar data.

Executive Director-NLDC

INTER-REGIONAL EXCHANGES

Import=(+ve) /Export =(-ve) for NET (MU)

Date of Reporting: 22-Apr-2024

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	48	0.0	1.2	-1.2
3	765 kV	GAYA-VARANASI	2	816	388	2.8	0.0	2.8
4	765 kV	SASARAM-FATEHPUR	1	196	317	0.0	2.8	-2.8
5	765 kV	GAYA-BALIA	1	131	470	0.0	6.0	-6.0
6	400 kV	PUSAULI-VARANASI	1	0	106	0.0	1.3	-1.3
7	400 kV	PUSAULI-ALLAHABAD	1	59	34	0.2	0.0	0.2
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	577	335	1.5	0.0	1.5
9	400 kV	PATNA-BALIA	2	310	679	0.0	7.7	-7.7
10	400 kV	NAUBATPUR-BALIA	2	64	206	0.0	2.0	-2.0
11	400 kV	BIHARSHARIFF-BALIA	2	430	74	4.2	0.0	4.2
12	400 kV	MOTIHARI-GORAKHPUR	2	208	384	0.0	3.6	-3.6
13	400 kV	BIHARSHARIFF-VARANASI	2	305	218	0.3	0.0	0.3
14	220 kV	SAHUPURI-KARAMNANA	1	43	49	0.0	0.4	-0.4
15	132 kV	NAGAR UNTARI-RIHAND	1	0	0	0.8	0.0	0.8
16	132 kV	GARWAH-RIHAND	1	30	0	0.8	0.0	0.8
17	132 kV	KARMANASA-SAHUPURI	1	0	0	0.0	0.0	0.0
18	132 kV	KARMANASA-CHANDALI	1	0	0	0.0	0.0	0.0
ER-NR						10.5	25.0	-14.6
Import/Export of ER (With WR)								
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	1871	0	30.1	0.0	30.1
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	1195	56	14.9	0.0	14.9
3	765 kV	JHARSUGUDA-DURG	2	0	738	0.0	12.6	-12.6
4	400 kV	JHARSUGUDA-RAIGARH	4	0	465	0.0	6.6	-6.6
5	400 kV	RANCHI-SIPAT	2	185	77	2.4	0.0	2.4
6	220 kV	BUDHIPADAR-RAIGARH	1	98	94	0.2	0.0	0.2
7	220 kV	BUDHIPADAR-KORBA	2	0	0	0.0	0.0	0.0
ER-WR						47.7	19.1	28.6
Import/Export of ER (With SR)								
1	HVDC	JEYPORE-GAZUWAKA B/B	2	0	687	0.0	14.6	-14.6
2	HVDC	TALCHER-KOLAR BIPOLE	2	0	1497	0.0	36.1	-36.1
3	765 kV	ANGUL-SRIKAKULAM	2	0	2840	0.0	58.4	-58.4
4	400 kV	TALCHER-I/C	2	411	488	5.6	0.0	5.6
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-BONGAIGAON	2	348	0	4.0	0.0	4.0
2	400 kV	ALIPURDUAR-BONGAIGAON	2	649	0	7.8	0.0	7.8
3	220 kV	ALIPURDUAR-SALAKATI	2	83	0	1.2	0.0	1.2
ER-NER						13.0	0.0	13.0
Import/Export of NER (With NR)								
1	HVDC	BISWANATH CHARIALI-AGRA	2	657	0	16.2	0.0	16.2
NER-NR						16.2	0.0	16.2
Import/Export of WR (With NR)								
1	HVDC	CHAMPA-KIRUKSHETRA	2	0	2011	0.0	47.1	-47.1
2	HVDC	VINDHYACHAL B/B	-	491	0	10.1	0.0	10.1
3	HVDC	MUNDRA-MOHINDERGARH	2	0	979	0.0	24.2	-24.2
4	765 kV	GWALIOR-AGRA	2	375	1955	1.1	23.7	-22.6
5	765 kV	GWALIOR-PHAGI	2	1279	1084	8.0	9.5	-1.5
6	765 kV	JABALPUR-ORAI	2	390	745	0.0	14.2	-14.2
7	765 kV	GWALIOR-ORAI	1	606	0	7.5	0.0	7.5
8	765 kV	SATNA-ORAI	1	0	1033	0.0	18.8	-18.8
9	765 kV	BANASKANTHA-CHITTOGARH	2	1696	549	11.7	2.8	8.9
10	765 kV	VINDHYACHAL-VARANASI	2	0	2797	0.0	50.8	-50.8
11	400 kV	ZERDA-KANKROLI	1	348	45	3.2	0.1	3.1
12	400 kV	ZERDA-BHINMAL	1	347	45	3.2	0.1	3.1
13	400 kV	VINDHYACHAL-RIHAND	1	968	0	21.7	0.0	21.7
14	400 kV	RAPP-SHUJALPUR	2	732	231	5.4	1.6	3.8
15	400 kV	NEEMUCH-Chittorgarh	2	756	127	5.1	0.7	4.4
16	220 kV	BHANPURA-RANPUR	1	0	153	0.0	2.4	-2.4
17	220 kV	BHANPURA-MORAK	1	0	30	0.0	1.9	-1.9
18	220 kV	MEHGAON-AURAIYA	1	90	0	0.9	0.0	0.9
19	220 kV	MALANPUR-AURAIYA	1	67	10	0.5	0.0	0.5
20	132 kV	GWALIOR-SAWAI MADHOPUR	1	0	0	0.0	0.0	0.0
21	132 kV	RAJGHAT-LALITPUR	2	0	0	0.0	0.0	0.0
WR-NR						78.3	197.8	-119.4
Import/Export of WR (With SR)								
1	HVDC	BHADRAWATI B/B	-	0	1010	0.0	11.8	-11.8
2	HVDC	RAIGARH-PUGALUR	2	0	5009	0.0	56.2	-56.2
3	765 kV	SOLAPUR-RAICHUR	2	0	1877	0.0	27.6	-27.6
4	765 kV	WARDHA-NIZAMABAD	2	0	2475	0.0	45.7	-45.7
5	765 kV	WARORA-WARANGAL(NEW)	2	0	2886	0.0	55.8	-55.8
6	400 kV	KOLHAPUR-KUDGI	2	880	0	14.3	0.0	14.3
7	220 kV	KOLHAPUR-CHIKODI	2	0	0	0.0	0.0	0.0
8	220 kV	PONDA-AMBEWADI	1	0	97	2.3	0.0	2.3
9	220 kV	XELDEM-AMBEWADI	1	0	109	2.1	0.0	2.1
WR-SR						18.7	197.1	-178.4

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 MANGDECHHU HEP 4*180MW)	335	40	148	3.56	
	ER	400kV TALA-BINAGURI 1,2,4 (& 400kV MALBASE - BINAGURI i.e. BINAGURI RECEIPT (from TALA HEP 6*170MW)	106	0	65	1.56	
	ER	220kV CHUKHA-BIRPARA 1&2 (& 220kV MALBASE - BIRPARA) i.e. BIRPARA RECEIPT (from CHUKHA HEP 4*84MW)	-154	-108	-130	-3.12	
	NER	132kV GELEPHU-SALAKATI	-5	0	-2	-0.05	
	NER	132kV MOTANGA-RANGIA	49	25	38	0.91	
NEPAL	NR	NEPAL IMPORT (FROM UP)	-75	0	-49	-1.17	
	NR	132kV MAHENDRANAGAR-TANAKPUR(NHPC)	-75	0	-44	-1.06	
	ER	NEPAL IMPORT (FROM BIHAR)	-193	-10	-60	-1.44	
	ER	400kV DHALKEBAR-MUZAFFARPUR 1&2	-513	13	-289	-6.93	
BANGLADESH	ER	BHERAMARA B/B HVDC (B'DESH)	-944	-793	-906	-21.73	
	ER (Isolated from Indian Grid)	400kV GODDA_TPS-RAHANPUR (B'DESH) D/C	-1487	-1103	-1273	-30.55	
	NER	132kV COMILLA-SURAJMANI NAGAR 1&2	-138	0	-117	-2.80	

