



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: 10th 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 09.04.2024.

महोदय/Dear Sir,

आईंईंजींसीं-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 09-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 09th April 2024, is available at the NLDC website.

धन्यवाद,

Report for previous day

Date of Reporting: 10-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)	57331	61008	50775	25995	3027	198136
Peak Shortage (MW)	0	0	0	0	0	0
Energy Met (MU)	1230	1525	1342	552	56	4705
Hydro Gen (MU)	130	28	53	19	12	242
Wind Gen (MU)	8	86	56	-	-	150
Solar Gen (MU)*	136.49	82.24	137.67	1.99	1.15	360
Energy Shortage (MU)	0.00	0.00	0.00	0.01	0.00	0.01
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	58089	68984	63042	26632	3196	208147
Time Of Maximum Demand Met	19:47	15:18	14:58	19:01	18:20	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	0.043	0.00	1.50	7.49	8.99	81.06	9.95

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	7476	0	155.4	47.9	0.7	456	0.00
	Haryana	7947	0	154.9	109.3	-2.7	119	0.00
	Rajasthan	13171	0	271.4	58.0	-0.3	246	0.00
	Delhi	4307	0	91.3	83.8	-0.9	123	0.00
	UP	21288	0	416.0	142.0	-1.4	346	0.00
	Uttarakhand	2139	0	44.1	25.9	0.4	98	0.00
	HP	1819	0	33.3	20.9	0.1	112	0.00
	J&K(UT) & Ladakh(UT)	2773	0	55.8	45.1	1.1	311	0.00
	Chandigarh	218	0	4.3	4.2	0.0	16	0.00
Railways NR ISTS	201	0	3.9	3.8	0.2	33	0.00	
WR	Chhattisgarh	5557	0	115.0	59.4	-3.6	440	0.00
	Gujarat	22843	0	475.3	194.0	-2.2	703	0.00
	MP	12253	0	255.3	135.1	-5.1	998	0.00
	Maharashtra	26835	0	603.7	215.7	-5.4	750	0.00
	Goa	711	0	15.6	11.1	4.3	57	0.00
	DNHDDPDCL	1263	0	29.3	29.4	-0.1	74	0.00
	AMNSIL	870	0	18.6	6.1	0.4	265	0.00
	BALCO	523	0	12.5	12.6	-0.1	7	0.00
SR	Andhra Pradesh	12157	0	235.9	69.3	-1.4	375	0.00
	Telangana	11603	0	244.2	123.3	0.2	1005	0.00
	Karnataka	15420	0	312.9	141.2	-0.9	793	0.00
	Kerala	5493	0	111.8	86.2	2.0	389	0.00
	Tamil Nadu	19611	0	426.5	267.9	-2.4	454	0.00
	Puducherry	473	0	10.7	10.4	-0.4	14	0.00
ER	Bihar	6080	0	123.4	113.9	-2.2	138	0.01
	DVC	3371	0	71.8	-39.4	-0.8	296	0.00
	Jharkhand	2006	0	38.4	29.2	-2.4	206	0.00
	Odisha	5750	0	120.2	42.9	-0.7	392	0.00
	West Bengal	9430	0	196.4	64.4	-2.4	176	0.00
	Sikkim	93	0	1.7	1.8	-0.1	24	0.00
	Railways ER ISTS	13	0	0.1	0.1	0.0	0	0.00
NER	Arunachal Pradesh	176	0	2.1	2.7	-0.7	91	0.00
	Assam	1966	0	36.0	30.2	-0.2	146	0.00
	Manipur	200	0	3.1	3.0	0.1	25	0.00
	Meghalaya	336	0	5.7	3.5	0.1	85	0.00
	Mizoram	130	0	1.8	1.8	-0.3	11	0.00
	Nagaland	173	0	2.1	2.4	-0.3	19	0.00
	Tripura	302	0	5.3	4.7	0.3	39	0.00

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

	Bhutan	Nepal	Bangladesh	Godda -> Bangladesh
Actual (MU)	-5.3	-12.6	-22.7	-23.4
Day Peak (MW)	-663.0	-832.9	-1061.0	-1412.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	128.8	-333.6	299.3	-104.4	9.9	0.0
Actual(MU)	137.9	-339.1	306.6	-121.8	8.2	-8.2
O/D/U/D(MU)	9.1	-5.5	7.3	-17.4	-1.7	-8.2

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL	% Share
Central Sector	3898	6000	5828	2426	155	18307	49
State Sector	5476	8609	2385	2432	150	19051	51
Total	9374	14609	8213	4858	305	37357	100

G. Sourcewise generation (Gross) (MU)

	NR	WR	SR	ER	NER	All India	% Share
Coal	810	1676	716	747	16	3965	77
Lignite	24	19	66	0	0	110	2
Hydro	130	28	53	19	12	242	5
Nuclear	31	60	51	0	0	142	3
Gas, Naptha & Diesel	20	48	6	0	24	98	2
RES (Wind, Solar, Biomass & Others)	164	171	229	3	1	568	11
Total	1180	2001	1121	769	53	5124	100

Share of RES in total generation (%)	13.92	8.54	20.40	0.39	2.19	11.08
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	27.53	12.92	29.68	2.87	24.87	18.57

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.056
Based on State Max Demands	1.090

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

	Max Demand Met(MW)	Time	Shortage(MW)
Solar hr	208147	10:57	0
Non-Solar hr	201044	19:31	0

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: 10-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	-	2	48	0.0	0.8	-0.8
3	765 kV	GAYA-VARANASI	2	652	759	0.0	7.1	-7.1
4	765 kV	SASARAM-FATEHPUR	1	127	492	0.0	7.1	-7.1
5	765 kV	GAYA-BALIA	1	0	554	0.0	9.0	-9.0
6	400 kV	PUSAULI-VARANASI	1	5	51	0.0	0.6	-0.6
7	400 kV	PUSAULI-ALLAHABAD	1	53	43	0.0	0.0	0.0
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	695	413	0.0	0.2	-0.2
9	400 kV	PATNA-BALIA	2	114	814	0.0	12.7	-12.7
10	400 kV	NAUBATPUR-BALIA	2	137	258	0.0	3.6	-3.6
11	400 kV	BIHARSHARIFF-BALIA	2	469	117	3.0	0.0	3.0
12	400 kV	MOTIHARI-GORAKHPUR	2	362	407	0.0	3.2	-3.2
13	400 kV	BIHARSHARIFF-VARANASI	2	189	160	0.0	0.8	-0.8
14	220 kV	SAHUPURI-KARAMNANA	1	47	101	0.0	1.2	-1.2
15	132 kV	NAGAR UNTARI-RIHAND	1	0	0	0.0	0.0	0.0
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						3.7	46.2	-42.5
Import/Export of ER (With WR)								
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	1175	0	14.6	0.0	14.6
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	764	902	0.0	1.3	-1.3
3	765 kV	JHARSUGUDA-DURG	2	0	993	0.0	17.7	-17.7
4	400 kV	JHARSUGUDA-RAIGARH	4	5	367	0.0	5.0	-5.0
5	400 kV	RANCHI-SIPAT	2	149	250	0.0	1.6	-1.6
6	220 kV	BUDHIPADAR-RAIGARH	1	73	75	0.1	0.0	0.1
7	220 kV	BUDHIPADAR-KORBA	2	0	1	0.0	0.0	0.0
ER-WR						14.7	25.6	-10.9
Import/Export of ER (With SR)								
1	HVDC	JEYPORE-GAZUWAKA B/B	2	0	623	0.0	14.9	-14.9
2	HVDC	TALCHER-KOLAR BIPOLE	2	0	1492	0.0	0.0	0.0
3	765 kV	ANGUL-SRIKAKULAM	2	0	2801	0.0	54.2	-54.2
4	400 kV	TALCHER-I/C	2	110	65	0.4	0.0	0.4
5	220 kV	BALIMELA-UPPER-SILERRU	1	0	0	0.0	0.0	0.0
ER-SR						0.0	69.1	-69.1
Import/Export of ER (With NER)								
1	400 kV	BINAGURI-BONGAIGAON	2	187	273	1.1	1.9	-0.8
2	400 kV	ALIPURDUAR-BONGAIGAON	2	341	301	1.0	0.0	1.0
3	220 kV	ALIPURDUAR-SALAKATI	2	24	39	0.0	0.1	-0.1
ER-NER						2.2	2.0	0.1
Import/Export of NER (With NR)								
1	HVDC	BISWANATH CHARIAL-AGRA	2	657	0	9.2	0.0	9.2
NER-NR						9.2	0.0	9.2
Import/Export of WR (With NR)								
1	HVDC	CHAMPA-KURUKSHETRA	2	0	2026	0.0	48.8	-48.8
2	HVDC	VINDHYACHAL B/B	-	511	0	9.1	0.0	9.1
3	HVDC	MUNDRA-MOHINDERGARH	2	0	788	0.0	19.4	-19.4
4	765 kV	GWALIOR-AGRA	2	0	1872	0.0	19.3	-19.3
5	765 kV	GWALIOR-PHAGI	2	762	1351	2.0	15.4	-13.4
6	765 kV	JABALPUR-ORAI	2	152	815	0.0	14.4	-14.4
7	765 kV	GWALIOR-ORAI	1	618	0	9.2	0.0	9.2
8	765 kV	SATNA-ORAI	1	0	1085	0.0	20.8	-20.8
9	765 kV	BANASKANTHA-CHITTOGARH	2	1509	275	14.0	0.4	13.6
10	765 kV	VINDHYACHAL-VARANASI	2	0	2674	0.0	41.8	-41.8
11	400 kV	ZERDA-KANKROLI	1	367	0	4.4	0.0	4.4
12	400 kV	ZERDA-BHINMAL	1	366	0	4.4	0.0	4.4
13	400 kV	VINDHYACHAL-RIHAND	1	961	0	21.7	0.0	21.7
14	400 kV	RAPP-SHUJALPUR	2	647	230	4.5	0.6	3.8
15	400 kV	NEEMUCH-Chittorgarh	2	739	216	5.1	0.5	4.6
16	220 kV	BHANPURA-RANPUR	1	0	124	0.0	2.4	-2.4
17	220 kV	BHANPURA-MORAK	1	0	30	0.0	1.8	-1.8
18	220 kV	MEHGAON-AURAIYA	1	71	0	0.9	0.0	0.9
19	220 kV	MALANPUR-AURAIYA	1	47	3	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						75.8	185.6	-109.8
Import/Export of WR (With SR)								
1	HVDC	BHADRAWATI B/B	-	0	1017	0.0	20.2	-20.2
2	HVDC	RAIGARH-PUGALUR	2	0	6019	0.0	116.2	-116.2
3	765 kV	SOLAPUR-RAICHUR	2	387	1855	0.4	21.3	-21.0
4	765 kV	WARDHA-NIZAMABAD	2	0	2836	0.0	49.3	-49.3
5	765 kV	WARORA-WARANGAL(NEW)	2	0	2839	0.0	53.1	-53.1
6	400 kV	KOLHAPUR-KUDGI	2	1239	0	15.8	0.0	15.8
7	220 kV	KOLHAPUR-CHIKODI	2	0	0	0.0	0.0	0.0
8	220 kV	PONDA-AMBEWADI	1	0	71	1.7	0.0	1.7
9	220 kV	XELDEM-AMBEWADI	1	0	127	2.5	0.0	2.5
WR-SR						20.4	260.1	-239.7

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)	-161	116	-20	-0.48	
	ER	400kV TALA-BINAGURI 1,2,4 (& 400kV MALBASE - BINAGURI i.e. BINAGURI RECEIPT (from TALA HEP 6*170MW)	-321	112	-103	-2.47	
	ER	220kV CHUKHA-BIRPARA 1&2 (& 220kV MALBASE - BIRPARA) i.e. BIRPARA RECEIPT (from CHUKHA HEP 4*84MW)	-244	-38	-126	-3.02	
	NER	132kV GELEPHU-SALAKATI	-14	0	-7	-0.16	
	NER	132kV MOTANGA-RANGIA	58	13	34	0.81	
NEPAL	NR	NEPAL IMPORT (FROM UP)	-73	0	-51	-1.22	
	NR	132kV MAHENDRANAGAR-TANAKPUR(NHPC)	-73	0	-49	-1.18	
	ER	NEPAL IMPORT (FROM BIHAR)	-336	-2	-126	-3.02	
	ER	400kV DHALKEBAR-MUZAFFARPUR 1&2	-497	-112	-298	-7.16	
BANGLADESH	ER	BHERAMARA B/B HVDC (B'DESH)	-946	-609	-850	-20.40	
	ER (Isolated from Indian Grid)	400kV GODDA_TPS-RAHANPUR (B'DESH) D/C	-1412	-805	-974	-23.38	
	NER	132kV COMILLA-SURAJMANI NAGAR 1&2	-115	0	-96	-2.31	

CROSS BORDER EXCHANGE SCHEDULE

Date of Reporting: 10-Apr-2024

Export From India (in MU)

Country	GNA (ISGS/PPA)	T-GNA							TOTAL
		BILATERAL TOTAL	COLLECTIVE						
			IDAM			RTM			
		IEX	PXIL	HPX	IEX	PXIL	HPX		
Bhutan	0.00	0.00	4.88	0.00	0.00	1.50	0.00	0.00	6.38
Nepal	0.19	0.00	6.36	0.00	0.00	0.00	0.00	0.00	6.55
Bangladesh	20.44	0.00	0.00	0.00	0.00	0.00	0.00	0.00	20.44
Myanmar	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total Export	20.63	0.00	11.24	0.00	0.00	1.50	0.00	0.00	33.37

Import by India(in MU)

Country	GNA (ISGA/PPA)	T-GNA							TOTAL
		BILATERAL TOTAL	COLLECTIVE						
			IDAM			RTM			
		IEX	PXIL	HPX	IEX	PXIL	HPX		
Bhutan	0.36	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.36
Nepal	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Bangladesh	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Myanmar	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total Import	0.36	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.36

Net from India(in MU)

-ve : Export / +ve : Import

Country	GNA (ISGS/PPA)	T-GNA							TOTAL
		BILATERAL TOTAL	COLLECTIVE						
			IDAM			RTM			
		IEX	PXIL	HPX	IEX	PXIL	HPX		
Bhutan	0.36	0.00	-4.88	0.00	0.00	-1.50	0.00	0.00	-6.02
Nepal	-0.19	0.00	-6.36	0.00	0.00	0.00	0.00	0.00	-6.55
Bangladesh	-20.44	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-20.44
Myanmar	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total Net	-20.27	0.00	-11.24	0.00	0.00	-1.50	0.00	0.00	-33.01