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

Ref: POSOCO/NLDC/SO/Daily PSP Report

दिनांक: 30th April 2024

To,

1. कार्यकारी निदेशक, पू.क्षे .भा .प्रे .के.,14 , गोल्फ क्लब रोड , कोलकाता - 700033
   Executive Director, ERLDC, 14 Golf Club Road, Tollygunge, Kolkata, 700033
2. 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
3. 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
4. कार्यकारी निदेशक, ऊ. पू. क्षे. भा. प्रे. के., डोंगतिएह, लोअर नोंग्रह , लापलंग, शिलोंग – 793006
   Executive Director, NERLDC, Dongteih, Lower Nongrah, Lapalang, Shillong - 793006, Meghalaya
5. 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 29.04.2024.

महोदय/Dear Sir,

आई०ई०जी०सी०-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 29-अप्रैल-2024 की अखिल भारतीय प्रणाली की दैनिक ग्रिड निष्पादन रिपोर्ट रा०भा०प्रे०के० की वेबसाइट पर उप्लब्ध 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 29th April 2024, is available at the NLDC website.

धन्यवाद,

ग्रिड कंट्रोलर ऑफ इंडिया लिमिटेड
राष्ट्रीय भार प्रेषण केंद्र, नई दिल्ली

Report for previous day **Date of Reporting: 30-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)	61003	66793	54798	28465	3005	214064
Peak Shortage (MW)	548	0	0	445	0	993
Energy Met (MU)	1364	1613	1369	653	52	5051
Hydro Gen (MU)	182	59	64	30	12	347
Wind Gen (MU)	28	113	35	-	-	177
Solar Gen (MU)*	172.45	93.46	134.95	3.38	1.21	405
Energy Shortage (MU)	3.14	1.18	1.50	2.97	0.00	8.79
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	61820	73261	65443	30661	3179	223110
Time Of Maximum Demand Met	22:21	15:24	14:45	23:37	18:28	15:20

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	0.021	0.00	0.00	1.61	1.61	85.02	13.37

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	8637	0	151.1	45.9	-3.7	304	0.00
	Haryana	9421	0	173.5	98.4	-0.1	201	0.00
	Rajasthan	14240	0	288.4	59.9	-0.4	366	2.82
	Delhi	5301	0	108.4	91.1	-0.1	204	0.00
	UP	24899	0	511.4	221.6	0.1	898	0.00
	Uttarakhand	2232	0	47.0	25.7	0.1	160	0.15
	HP	1662	0	31.5	15.2	-0.3	139	0.17
	J&K(UT) & Ladakh(UT)	2086	0	44.2	31.5	-2.5	77	0.00
	Chandigarh	225	0	4.7	5.3	-0.5	9	0.00
	Railways_NR ISTS	193	0	3.9	3.5	0.4	86	0.00
WR	Chhattisgarh	6089	0	133.4	72.1	-2.0	167	0.00
	Gujarat	23592	0	480.8	164.9	-3.5	829	0.00
	MP	13027	0	282.0	168.1	-3.8	592	1.18
	Maharashtra	28924	0	638.6	205.8	-5.7	597	0.00
	Goa	786	0	16.8	11.8	4.9	0	0.00
	DNHDDPDCL	1268	0	29.1	28.9	0.2	83	0.00
	AMNSIL	903	0	19.6	5.4	0.7	327	0.00
	BALCO	524	0	12.5	12.5	0.0	9	0.00
SR	Andhra Pradesh	13268	0	251.8	94.7	0.7	507	0.00
	Telangana	11215	0	229.6	101.9	1.0	761	0.00
	Karnataka	16847	0	327.0	148.0	1.4	1404	0.00
	Kerala	5646	300	113.0	85.3	3.0	557	1.50
	Tamil Nadu	20230	0	436.2	268.7	0.8	849	0.00
	Puducherry	517	0	11.4	10.9	-0.2	23	0.00
ER	Bihar	6640	284	143.9	125.6	7.0	566	2.97
	DVC	3494	0	74.3	-46.2	-0.7	428	0.00
	Jharkhand	2148	0	46.7	32.7	0.5	196	0.00
	Odisha	6380	0	130.6	52.0	-0.4	428	0.00
	West Bengal	12600	0	256.0	106.1	-0.4	323	0.00
	Sikkim	97	0	1.4	1.3	0.1	67	0.00
	Railways_ER ISTS	13	0	0.2	0.1	0.0	4	0.00
NER	Arunachal Pradesh	157	0	2.5	2.8	-0.3	24	0.00
	Assam	1942	0	31.8	26.6	-1.1	125	0.00
	Manipur	204	0	2.8	2.9	-0.2	19	0.00
	Meghalaya	348	0	5.1	3.6	-0.2	35	0.00
	Mizoram	122	0	1.9	1.8	-0.2	12	0.00
	Nagaland	138	0	2.0	2.3	-0.3	10	0.00
	Tripura	345	0	6.3	5.7	0.5	105	0.00

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

	Bhutan	Nepal	Bangladesh	Godda -> Bangladesh
Actual (MU)	-3.1	-13.1	-18.3	-20.1
Day Peak (MW)	-613.0	-808.0	-1055.0	-1571.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	113.3	-319.0	224.2	-26.6	8.0	0.0
Actual(MU)	104.0	-336.3	243.2	-24.1	8.1	-5.1
O/D/U/D(MU)	-9.3	-17.4	19.0	2.4	0.1	-5.1

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL	% Share
Central Sector	1928	4810	2368	3926	647	13679	47
State Sector	5261	6542	2368	1454	89	15712	53
Total	7189	11352	4736	5380	736	29392	100

G. Sourcewise generation (Gross) (MU)

	NR	WR	SR	ER	NER	All India	% Share
Coal	864	1661	795	725	15	4061	74
Lignite	27	16	71	0	0	113	2
Hydro	182	59	64	30	12	347	6
Nuclear	31	52	75	0	0	158	3
Gas, Naptha & Diesel	44	89	7	0	23	163	3
RES (Wind, Solar, Biomass & Others)	211	210	197	5	1	624	11
Total	1359	2088	1210	759	51	5467	100

Share of RES in total generation (%)	15.52	10.08	16.30	0.61	2.43	11.42
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	31.21	15.39	27.86	4.50	25.21	20.66

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.050
Based on State Max Demands	1.104

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

	Max Demand Met(MW)	Time	Shortage(MW)
Solar hr	223110	15:20	0
Non-Solar hr	222197	22:30	1752

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: 30-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	1.3	-1.3
3	765 kV	GAYA-VARANASI	2	904	387	1.9	0.0	1.9
4	765 kV	SASARAM-FATEHPUR	1	287	258	0.0	2.0	-2.0
5	765 kV	GAYA-BALIA	1	0	535	0.0	8.4	-8.4
6	400 kV	PUSAULI-VARANASI	1	0	126	0.0	1.8	-1.8
7	400 kV	PUSAULI -ALLAHABAD	1	78	5	0.6	0.0	0.6
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	572	242	2.3	0.0	2.3
9	400 kV	PATNA-BALIA	2	322	705	0.0	8.5	-8.5
10	400 kV	NAUBATPUR-BALIA	2	149	215	0.0	1.9	-1.9
11	400 kV	BIHARSHARIFF-BALIA	2	479	4	5.6	0.0	5.6
12	400 kV	MOTIHARI-GORAKHPUR	2	204	354	0.0	3.4	-3.4
13	400 kV	BIHARSHARIFF-VARANASI	2	0	0	0.0	0.0	0.0
14	220 kV	SAHUPURI-KARAMNASA	1	57	149	0.0	1.0	-1.0
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-CHANDAULI	1	0	0	0.0	0.0	0.0
					ER-NR	11.2	28.2	-17.0
Import/Export of ER (With WR)								
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	2087	0	33.3	0.0	33.3
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	1271	0	20.7	0.0	20.7
3	765 kV	JHARSUGUDA-DURG	2	0	498	0.0	7.1	-7.1
4	400 kV	JHARSUGUDA-RAIGARH	4	15	372	0.0	5.0	-5.0
5	400 kV	RANCHI-SIPAT	2	244	0	2.4	0.0	2.4
6	220 kV	BUDHIPADAR-RAIGARH	1	129	100	0.0	1.2	-1.2
7	220 kV	BUDHIPADAR-KORBA	2	63	20	0.4	0.0	0.4
					ER-WR	56.8	13.4	43.5
Import/Export of ER (With SR)								
1	HVDC	JEYPORE-GAZUWAKA B/B	2	0	524	0.0	12.4	-12.4
2	HVDC	TALCHER-KOLAR BIPOLE	2	0	1494	0.0	36.1	-36.1
3	765 kV	ANGUL-SRIKAKULAM	2	0	2834	0.0	55.7	-55.7
4	400 kV	TALCHER-I/C	2	410	0	8.3	0.0	8.3
5	220 kV	BALIMELA-UPPER-SILERRU	1	0	0	0.0	0.0	0.0
					ER-SR	0.0	104.3	-104.3
Import/Export of ER (With NER)								
1	400 kV	BINAGURI-BONGAIGAON	2	247	75	2.6	0.0	2.6
2	400 kV	ALIPURDUAR-BONGAIGAON	2	433	57	5.3	0.0	5.3
3	220 kV	ALIPURDUAR-SALAKATI	2	84	4	1.1	0.0	1.1
					ER-NER	9.0	0.0	9.0
Import/Export of NER (With NR)								
1	HVDC	BISWANATH CHARIALI-AGRA	2	661	0	16.3	0.0	16.3
					NER-NR	16.3	0.0	16.3
Import/Export of WR (With NR)								
1	HVDC	CHAMPA-KURUKSHETRA	2	0	2006	0.0	47.7	-47.7
2	HVDC	VINDHYACHAL B/B	-	492	0	6.5	0.0	6.5
3	HVDC	MUNDRA-MOHINDERGARH	2	0	1909	0.0	32.4	-32.4
4	765 kV	GWALIOR-AGRA	2	218	1651	0.2	19.1	-18.9
5	765 kV	GWALIOR-PHAGI	2	1265	1016	6.5	8.9	-2.4
6	765 kV	JABALPUR-ORAI	2	404	646	0.0	10.9	-10.9
7	765 kV	GWALIOR-ORAI	1	500	0	7.2	0.0	7.2
8	765 kV	SATNA-ORAI	1	0	914	0.0	16.4	-16.4
9	765 kV	BANASKANTHA-CHITORGARH	2	2106	191	17.0	0.3	16.7
10	765 kV	VINDHYACHAL-VARANASI	2	0	2842	0.0	51.3	-51.3
11	400 kV	ZERDA-KANKROLI	1	464	0	4.5	0.0	4.5
12	400 kV	ZERDA -BHINMAL	1	463	0	4.4	0.0	4.4
13	400 kV	VINDHYACHAL -RIHAND	1	964	0	22.3	0.0	22.3
14	400 kV	RAPP-SHUJALPUR	2	838	131	6.8	0.3	6.5
15	400 kV	NEEMUCH-Chittorgarh	2	919	156	7.3	0.3	7.1
16	220 kV	BHANPURA-RANPUR	1	0	126	0.0	2.4	-2.4
17	220 kV	BHANPURA-MORAK	1	0	30	0.0	2.2	-2.2
18	220 kV	MEHGAON-AURAIYA	1	104	34	1.4	0.0	1.4
19	220 kV	MALANPUR-AURAIYA	1	75	34	0.8	0.0	0.8
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	84.8	191.9	-107.1
Import/Export of WR (With SR)								
1	HVDC	BHADRAWATI B/B	-	0	1012	0.0	14.2	-14.2
2	HVDC	RAIGARH-PUGALUR	2	0	4012	0.0	55.8	-55.8
3	765 kV	SOLAPUR-RAICHUR	2	0	1508	0.0	32.5	-32.5
4	765 kV	WARDHA-NIZAMABAD	2	0	2376	0.0	43.9	-43.9
5	765 kV	WARORA-WARANGAL(NEW)	2	0	3031	0.0	57.3	-57.3
6	400 kV	KOLHAPUR-KUDGI	2	837	0	13.2	0.0	13.2
7	220 kV	KOLHAPUR-CHIKODI	2	0	0	0.0	0.0	0.0
8	220 kV	PONDA-AMBEWADI	1	0	79	2.3	0.0	2.3
9	220 kV	XELDEM-AMBEWADI	1	0	124	2.4	0.0	2.4
					WR-SR	17.9	203.7	-185.8

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 MANGDECHU HEP 4*180MW)	274	97	143	3.43
	ER	400kV TALA-BINAGURI 1,2,4 (& 400kV MALBASE - BINAGURI) i.e. BINAGURI RECEIPT (from TALA HEP 6*170MW)	-257	28	-97	-2.33
	ER	220kV CHUKHA-BIRPARA 1&2 (& 220kV MALBASE - BIRPARA) i.e. BIRPARA RECEIPT (from CHUKHA HEP 4*84MW)	-289	-180	-219	-5.25
	NER	132kV GELEPHU-SALAKATI	15	6	10	0.25
	NER	132kV MOTANGA-RANGIA	44	29	33	0.79
NEPAL	NR	NEPAL IMPORT (FROM UP)	-76	0	-46	-1.11
	NR	132kV MAHENDRANAGAR-TANAKPUR(NHPC)	-76	0	-46	-1.10
	ER	NEPAL IMPORT (FROM BIHAR)	-337	-18	-140	-3.35
	ER	400kV DHALKEBAR-MUZAFFARPUR 1&2	-471	-64	-314	-7.54
BANGLADESH	ER	BHERAMARA B/B HVDC (B'DESH)	-949	-507	-665	-15.97
	ER (Isolated from Indian Grid)	400kV GODDA_TPS-RAHANPUR (B'DESH) D/C	-1571	0	-839	-20.13
	NER	132kV COMILLA-SURAJMANI NAGAR 1&2	-106	0	-96	-2.31

CROSS BORDER EXCHANGE SCHEDULE

Date of Reporting: 30-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	3.76	0.00	0.00	0.00	0.00	0.00	3.76
Nepal	0.32	0.00	6.08	0.00	0.00	0.00	0.00	0.00	6.40
Bangladesh	15.72	0.00	0.00	0.00	0.00	0.00	0.00	0.00	15.72
Myanmar	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total Export	16.04	0.00	9.84	0.00	0.00	0.00	0.00	0.00	25.88

Import by India(in MU)

Country	GNA (ISGA/PPA)	T-GNA							TOTAL
		BILATERAL TOTAL	COLLECTIVE						
			IDAM			RTM			
			IEX	PXIL	HPX	IEX	PXIL	HPX	
Bhutan	1.09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.09
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	1.09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.09

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	1.09	0.00	-3.76	0.00	0.00	0.00	0.00	0.00	-2.67
Nepal	-0.32	0.00	-6.08	0.00	0.00	0.00	0.00	0.00	-6.40
Bangladesh	-15.72	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-15.72
Myanmar	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total Net	-14.95	0.00	-9.84	0.00	0.00	0.00	0.00	0.00	-24.79