



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: 13-June-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, लापालंग, 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 12.06.2024.

महोदय/Dear Sir,

आईईजीसी-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 12-जून-2024 की अखिल भारतीय प्रणाली की दैनिक ग्रिड निष्पादन रिपोर्ट रांभांप्रेके 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 12-June-2024, is available at the NLDC website.

धन्यवाद,
Thanks

Report for previous day

Date of Reporting: 13-Jun-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)	77893	62685	45804	28545	3459	218386
Peak Shortage (MW)	247	0	0	0	0	247
Energy Met (MU)	1886	1487	1043	677	69	5161
Hydro Gen (MU)	308	44	52	35	29	468
Wind Gen (MU)	42	177	192	-	-	411
Solar Gen (MU)*	174.24	88.90	92.45	3.36	0.91	360
Energy Shortage (MU)	3.19	0.00	0.00	0.00	0.00	3.19
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	85953	67594	46855	31561	3491	233391
Time Of Maximum Demand Met	12:42	15:04	11:50	15:05	19:42	14:59

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	0.018	0.00	0.00	0.73	0.73	86.24	13.03

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	14731	0	275.0	136.0	-0.6	327	0.00
	Haryana	12913	0	268.4	197.5	0.7	260	0.00
	Rajasthan	16888	0	363.4	115.8	0.9	380	2.44
	Delhi	7677	0	157.3	122.6	-0.5	400	0.00
	UP	29614	0	653.5	332.9	-0.1	899	0.30
	Uttarakhand	2766	0	59.8	34.4	1.0	140	0.25
	HP	1878	0	40.8	9.2	0.2	77	0.00
	J&K(UT) & Ladakh(UT)	2618	0	55.4	28.4	1.0	319	0.20
	Chandigarh	428	0	8.2	8.1	0.1	55	0.00
Railways NR ISTS	204	0	4.3	3.7	0.6	73	0.00	
WR	Chhattisgarh	5264	0	115.8	59.4	-4.7	260	0.00
	Gujarat	23402	0	488.3	137.8	-4.8	430	0.00
	MP	12417	0	272.1	148.2	-4.0	444	0.00
	Maharashtra	24191	0	536.3	183.5	-6.2	791	0.00
	Goa	692	0	14.4	12.8	1.1	43	0.00
	DNHDDPDCL	1334	0	30.8	30.7	0.1	75	0.00
	AMNSIL	784	0	16.5	6.7	0.3	319	0.00
	BALCO	520	0	12.4	12.5	-0.1	2	0.00
SR	Andhra Pradesh	9702	0	209.7	46.3	-0.9	588	0.00
	Telangana	9034	0	190.0	81.1	0.6	585	0.00
	Karnataka	9914	0	184.5	43.8	-1.8	491	0.00
	Kerala	4097	0	83.4	56.8	0.8	325	0.00
	Tamil Nadu	17036	0	364.5	158.9	0.2	1062	0.00
	Puducherry	499	0	10.7	10.3	-0.3	23	0.00
ER	Bihar	7588	0	166.4	158.1	0.2	370	0.00
	DVC	3464	0	77.3	-39.1	-0.1	265	0.00
	Jharkhand	2265	0	50.2	37.7	0.4	214	0.00
	Odisha	6403	0	134.5	71.7	-0.9	508	0.00
	West Bengal	12150	0	246.9	119.4	-2.3	372	0.00
	Sikkim	90	0	1.5	1.5	0.0	28	0.00
Railways ER ISTS	17	0	0.2	0.3	-0.1	0	0.00	
NER	Arunachal Pradesh	190	0	3.1	3.1	-0.1	21	0.00
	Assam	2316	0	45.0	37.2	-0.5	118	0.00
	Manipur	213	0	3.4	3.4	0.0	50	0.00
	Meghalaya	325	0	6.0	0.0	0.0	72	0.00
	Mizoram	117	0	1.8	1.5	-0.2	20	0.00
	Nagaland	181	0	3.2	3.3	-0.1	18	0.00
Tripura	313	0	6.2	5.7	0.3	52	0.00	

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

	Bhutan	Nepal	Bangladesh	Godda -> Bangladesh
Actual (MU)	6.3	1.0	-23.7	-33.3
Day Peak (MW)	393.3	445.1	-1034.0	-1486.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	456.1	-430.7	-36.5	4.2	6.9	0.0
Actual(MU)	426.7	-464.1	0.2	19.3	10.2	-7.7
O/D/U/D(MU)	-29.4	-33.4	36.6	15.1	3.4	-7.7

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL	% Share
Central Sector	2679	3240	4155	2946	301	13321	41
State Sector	2876	6609	6238	3474	83	19280	59
Total	5555	9849	10393	6420	384	32600	100

G. Sourcewise generation (Gross) (MU)

	NR	WR	SR	ER	NER	All India	% Share
Coal	903	1612	637	704	11	3867	69
Lignite	26	9	55	0	0	91	2
Hydro	308	44	52	35	29	468	8
Nuclear	29	60	51	0	0	141	3
Gas, Naptha & Diesel	67	103	7	0	24	201	4
RES (Wind, Solar, Biomass & Others)	224	269	308	5	1	807	14
Total	1559	2097	1110	745	64	5575	100
Share of RES in total generation (%)	14.39	12.83	27.76	0.66	1.43	14.48	
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	36.06	17.75	37.03	5.43	46.57	25.40	

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.008
Based on State Max Demands	1.046

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

	Max Demand Met(MW)	Time	Shortage(MW)
Solar hr	233391	14:59	0
Non-Solar hr	224153	22:43	826

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: 13-Jun-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	0	0.0	0.0	0.0
3	765 kV	GAYA-VARANASI	2	823	353	3.0	0.0	3.0
4	765 kV	SASARAM-FATEHPUR	1	105	298	0.0	3.1	-3.1
5	765 kV	GAYA-BALIA	1	0	579	0.0	10.2	-10.2
6	400 kV	PUSAULI-VARANASI	1	159	24	0.8	0.0	0.8
7	400 kV	PUSAULI-ALLAHABAD	1	219	11	1.6	0.0	1.6
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	68	537	0.0	5.8	-5.8
9	400 kV	PATNA-BALIA	2	177	609	0.0	5.0	-5.0
10	400 kV	NAUBATPUR-BALIA	2	112	169	0.0	1.6	-1.6
11	400 kV	BIHARSHARIFF-BALIA	2	420	0	5.0	0.0	5.0
12	400 kV	MOTIHARI-GORAKHPUR	2	0	437	0.0	6.2	-6.2
13	400 kV	BIHARSHARIFF-VARANASI	2	0	0	0.0	0.0	0.0
14	220 kV	SAHUPURI-KARAMNANA	1	20	46	0.0	0.6	-0.6
15	132 kV	NAGAR UNTARI-RIHAND	1	0	0	0.9	0.0	0.9
16	132 kV	GARWAH-RIHAND	1	30	0	0.6	0.0	0.6
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						12.0	32.5	-20.5
Import/Export of ER (With WR)								
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	534	942	0.0	4.4	-4.4
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	2629	0	45.9	0.0	45.9
3	765 kV	JHARSUGUDA-DURG	2	337	315	2.2	0.0	2.2
4	400 kV	JHARSUGUDA-RAIGARH	4	578	57	6.6	0.0	6.6
5	400 kV	RANCHI-SIPAT	2	701	0	11.4	0.0	11.4
6	220 kV	BUDHIPADAR-RAIGARH	1	25	138	0.0	1.4	-1.4
7	220 kV	BUDHIPADAR-KORBA	2	162	32	1.3	0.0	1.3
ER-WR						67.3	5.8	61.5
Import/Export of ER (With SR)								
1	HVDC	JEYPORE-GAZUWAKA B/B	2	402	0	9.5	0.0	9.5
2	HVDC	TALCHER-KOLAR BIPOLE	2	0	1695	0.0	40.9	-40.9
3	765 kV	ANGUL-SRIKAKULAM	2	0	2121	0.0	34.7	-34.7
4	400 kV	TALCHER-I/C	2	0	567	0.0	9.7	-9.7
5	220 kV	BALIMELA-UPPER-SILERRU	1	0	0	0.0	0.0	0.0
ER-SR						9.5	75.6	-66.1
Import/Export of ER (With NER)								
1	400 kV	BINAGURI-BONGAIGAON	2	331	0	5.3	0.0	5.3
2	400 kV	ALIPURDUAR-BONGAIGAON	2	531	35	7.7	0.0	7.7
3	220 kV	ALIPURDUAR-SALAKATI	2	70	6	1.0	0.0	1.0
ER-NER						14.0	0.0	14.0
Import/Export of NER (With NR)								
1	HVDC	BISWANATH CHARIALI-AGRA	2	958	0	23.5	0.0	23.5
NER-NR						23.5	0.0	23.5
Import/Export of WR (With NR)								
1	HVDC	CHAMPA-KIRUKSHETRA	2	0	6083	0.0	136.7	-136.7
2	HVDC	VINDHYACHAL B/B	-	0	254	0.0	12.0	-12.0
3	HVDC	MUNDRA-MOHINDERGARH	2	0	1663	0.0	42.4	-42.4
4	765 kV	GWALIOR-AGRA	2	0	3129	0.0	59.6	-59.6
5	765 kV	GWALIOR-PHAGI	2	574	1337	2.3	15.1	-12.8
6	765 kV	JABALPUR-ORAI	2	0	1305	0.0	48.6	-48.6
7	765 kV	GWALIOR-ORAI	1	602	0	9.1	0.0	9.1
8	765 kV	SATNA-ORAI	1	0	1149	0.0	24.2	-24.2
9	765 kV	BANASKANTHA-CHITTOGARH	2	0	2081	0.0	24.6	-24.6
10	765 kV	VINDHYACHAL-VARANASI	2	0	4345	0.0	84.1	-84.1
11	400 kV	ZERDA-KANKROLI	1	42	299	0.1	2.5	-2.4
12	400 kV	ZERDA-BHINMAL	1	43	297	0.1	2.5	-2.4
13	400 kV	VINDHYACHAL-RIHAND	1	969	0	21.2	0.0	21.2
14	400 kV	RAPP-SHUJALPUR	2	137	509	0.5	5.6	-5.1
15	400 kV	NEEMUCH-Chittorgarh	2	245	514	1.2	4.9	-3.7
16	220 kV	BHANPURA-RANPUR	1	0	145	0.0	2.5	-2.5
17	220 kV	BHANPURA-MORAK	1	0	30	0.0	2.6	-2.6
18	220 kV	MEHGAON-AURAIYA	1	52	30	0.5	0.1	0.4
19	220 kV	MALANPUR-AURAIYA	1	27	44	0.1	0.2	-0.1
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						35.1	468.1	-433.1
Import/Export of WR (With SR)								
1	HVDC	BHADRAWATI B/B	-	1001	0	14.9	0.0	14.9
2	HVDC	RAIGARH-PUGALUR	2	0	1002	0.0	15.7	-15.7
3	765 kV	SOLAPUR-RAICHUR	2	2379	266	26.7	0.2	26.5
4	765 kV	WARDHA-NIZAMABAD	2	536	1419	1.7	13.6	-11.9
5	765 kV	WARORA-WARANGAL(NEW)	2	413	1660	1.1	16.9	-15.7
6	400 kV	KOLHAPUR-KUDGI	2	1684	0	29.6	0.0	29.6
7	220 kV	KOLHAPUR-CHIKODI	2	0	0	0.0	0.0	0.0
8	220 kV	PONDA-AMBEWADI	1	0	53	1.2	0.0	1.2
9	220 kV	XELDEM-AMBEWADI	1	0	119	2.1	0.0	2.1
WR-SR						77.3	46.4	30.9

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)	483	167	336	8.07	
	ER	400kV TALA-BINAGURI 1,2,4 (& 400kV MALBASE - BINAGURI i.e. BINAGURI RECEIPT (from TALA HEP 6*170MW)	-141	89	-20	-0.49	
	ER	220kV CHUKHA-BIRPARA 1&2 (& 220kV MALBASE - BIRPARA) i.e. BIRPARA RECEIPT (from CHUKHA HEP 4*84MW)	-144	-51	-98	-2.35	
	NER	132kV GELEPHU-SALAKATI	9	-5	1	0.01	
	NER	132kV MOTANGA-RANGIA	59	34	45	1.07	
NEPAL	NR	NEPAL IMPORT (FROM UP)	0	0	0	-0.42	
	NR	132kV MAHENDRANAGAR-TANAKPUR(NHPC)	0	0	0	0.00	
	ER	NEPAL IMPORT (FROM BIHAR)	187	0	-84	-2.02	
	ER	400kV DHALKEBAR-MUZAFFARPUR 1&2	258	21	145	3.49	
BANGLADESH	ER	BHERAMARA B/B HVDC (B'DESH)	-942	-728	-900	-21.60	
	ER (Isolated from Indian Grid)	400kV GODDA_TPS-RAHANPUR (B'DESH) D/C	-1486	-1209	-1389	-33.34	
	NER	132kV COMILLA-SURAJMANI NAGAR 1&2	-92	0	-87	-2.08	

CROSS BORDER EXCHANGE SCHEDULE

Date of Reporting: 13-Jun-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	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Nepal	0.22	0.00	0.60	0.00	0.00	0.24	0.00	0.00	1.06
Bangladesh	21.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	21.60
Myanmar	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total Export	21.82	0.00	0.60	0.00	0.00	0.24	0.00	0.00	22.66

Import by India(in MU)

Country	GNA (ISGA/PPA)	T-GNA							TOTAL
		BILATERAL TOTAL	COLLECTIVE						
			IDAM			RTM			
			IEX	PXIL	HPX	IEX	PXIL	HPX	
Bhutan	4.20	0.00	0.00	0.00	0.00	0.13	0.00	0.00	4.33
Nepal	2.63	0.00	0.00	0.00	0.00	1.01	0.00	0.00	3.64
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	6.83	0.00	0.00	0.00	0.00	1.14	0.00	0.00	7.97

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	4.20	0.00	0.00	0.00	0.00	0.13	0.00	0.00	4.33
Nepal	2.41	0.00	-0.60	0.00	0.00	0.77	0.00	0.00	2.58
Bangladesh	-21.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-21.60
Myanmar	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total Net	-14.99	0.00	-0.60	0.00	0.00	0.90	0.00	0.00	-14.69