



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: 25.07.2024

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 24.07.2024.

महोदय/Dear Sir,

आईईजीसी-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 24-जुलाई-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 24.07.2024, is available at the NLDC website.

धन्यवाद,
Thanks

Report for previous day

Date of Reporting: 25-Jul-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)	80656	53873	45496	28605	3652	212282
Peak Shortage (MW)	0	0	0	355	0	355
Energy Met (MU)	1826	1266	1078	625	72	4866
Hydro Gen (MU)	387	35	114	74	35	644
Wind Gen (MU)	22	240	287	-	-	548
Solar Gen (MU)*	148.90	42.28	87.12	1.38	1.24	281
Energy Shortage (MU)	0.39	0.00	0.00	0.91	0.00	1.30
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	82294	55552	50174	29212	3646	212149
Time Of Maximum Demand Met	22:18	19:24	09:47	22:29	19:38	19:58

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	0.025	0.00	0.00	3.11	3.11	82.63	14.26

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	15661	0	359.2	223.6	-1.7	197	0.00
	Haryana	13030	0	277.6	203.8	-1.2	270	0.00
	Rajasthan	13994	0	311.0	100.8	-1.2	593	0.00
	Delhi	6920	0	142.4	122.0	-0.5	253	0.00
	UP	28322	0	575.5	278.3	0.8	382	0.00
	Uttarakhand	2395	0	52.8	26.4	0.1	111	0.00
	HP	1888	0	40.0	1.8	0.7	108	0.00
	J&K(UT) & Ladakh(UT)	2607	0	54.8	32.7	-1.7	286	0.39
	Chandigarh	417	0	8.2	7.9	0.3	49	0.00
Railways NR ISTS	197	0	4.3	3.8	0.5	63	0.00	
WR	Chhattisgarh	4387	0	98.7	58.6	-3.8	324	0.00
	Gujarat	16420	0	374.9	134.3	-10.5	322	0.00
	MP	11047	0	235.4	129.6	-2.6	486	0.00
	Maharashtra	22024	0	484.7	150.3	-0.4	803	0.00
	Goa	603	0	13.2	12.9	0.1	69	0.00
	DNHDDPDCL	1298	0	30.0	29.9	0.1	46	0.00
	AMNSIL	744	0	16.2	5.5	0.6	298	0.00
	BALCO	529	0	12.6	12.7	-0.1	7	0.00
SR	Andhra Pradesh	9728	0	204.8	25.1	-2.0	573	0.00
	Telangana	10774	0	211.4	128.6	-2.2	490	0.00
	Karnataka	10170	0	191.4	-17.1	-2.4	757	0.00
	Kerala	4027	0	79.6	44.7	0.8	380	0.00
	Tamil Nadu	17381	0	379.7	175.4	0.8	738	0.00
	Puducherry	497	0	10.9	10.5	-0.1	37	0.00
ER	Bihar	7729	0	159.0	154.1	-1.2	314	0.07
	DVC	3557	0	74.7	-36.0	1.7	792	0.00
	Jharkhand	2155	0	43.7	32.5	0.0	295	0.84
	Odisha	5724	0	114.0	30.9	0.1	437	0.00
	West Bengal	10965	0	231.7	89.8	-0.7	283	0.00
	Sikkim	86	0	1.4	1.4	-0.1	20	0.00
Railways ER ISTS	14	0	0.2	0.2	0.0	1	0.00	
NER	Arunachal Pradesh	159	0	2.9	2.7	-0.4	18	0.00
	Assam	2441	0	48.9	41.0	0.5	175	0.00
	Manipur	196	0	3.0	2.9	0.1	43	0.00
	Meghalaya	321	0	5.6	-0.8	-0.1	57	0.00
	Mizoram	125	0	2.0	0.7	-0.3	14	0.00
	Nagaland	180	0	3.3	2.9	-0.1	22	0.00
Tripura	324	0	6.1	5.9	0.1	48	0.00	

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

	Bhutan	Nepal	Bangladesh	Godda -> Bangladesh
Actual (MU)	36.6	15.8	-24.1	-30.8
Day Peak (MW)	1993.0	751.8	-1017.0	-1519.3

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	424.7	-320.2	-35.0	-76.2	6.6	0.0
Actual(MU)	418.4	-335.9	-37.0	-63.6	4.8	-13.3
O/D/U/D(MU)	-6.3	-15.8	-2.0	12.6	-1.8	-13.3

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL	% Share
Central Sector	3147	14588	6288	4716	234	28972	52
State Sector	3386	12070	9790	974	157	26376	48
Total	6533	26657	16078	5690	391	55348	100

G. Sourcewise generation (Gross) (MU)

	NR	WR	SR	ER	NER	All India	% Share
Coal	858	1275	536	679	14	3361	64
Lignite	27	14	51	0	0	91	2
Hydro	387	35	114	74	35	644	12
Nuclear	30	67	76	0	0	173	3
Gas, Naptha & Diesel	26	40	5	0	23	95	2
RES (Wind, Solar, Biomass & Others)	177	284	403	4	1	869	17
Total	1505	1714	1185	756	73	5233	100

Share of RES in total generation (%)	11.79	16.55	33.99	0.48	1.70	16.60
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	39.51	22.47	49.98	10.25	49.51	32.21

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.041
Based on State Max Demands	1.079

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

	Max Demand Met(MW)	Time	Shortage(MW)
Solar hr	209609	11:30	0
Non-Solar hr	212149	19:58	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: 25-Jul-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	702	0.0	16.8	-16.8
2	HVDC	PUSAULI B/B	-	0	95	0.0	2.4	-2.4
3	765 kV	GAYA-VARANASI	2	885	671	0.0	1.7	-1.7
4	765 kV	SASARAM-FATEHPUR	1	390	295	0.0	1.0	-1.0
5	765 kV	GAYA-BALIA	1	0	786	0.0	12.3	-12.3
6	400 kV	PUSAULI-VARANASI	1	0	123	0.0	1.5	-1.5
7	400 kV	PUSAULI-ALLAHABAD	1	29	58	0.0	0.8	-0.8
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	175	732	0.0	8.7	-8.7
9	400 kV	PATNA-BALIA	2	194	653	0.0	9.1	-9.1
10	400 kV	NAUBATPUR-BALIA	2	143	389	0.0	1.9	-1.9
11	400 kV	BIHARSHARIFF-BALIA	2	412	121	1.3	0.0	1.3
12	400 kV	MOTIHARI-GORAKHPUR	2	103	417	0.0	5.1	-5.1
13	400 kV	BIHARSHARIFF-VARANASI	2	0	0	0.0	0.0	0.0
14	220 kV	SAHUPURI-KARAMNANA	1	0	73	0.1	0.5	-0.4
15	132 kV	NAGAR UNTARI-RIHAND	1	0	0	0.1	0.0	0.1
16	132 kV	GARWAH-RIHAND	1	30	0	0.5	0.0	0.5
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						1.9	61.8	-59.8
Import/Export of ER (With WR)								
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	457	1298	0.0	6.5	-6.5
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	2273	0	33.7	0.0	33.7
3	765 kV	JHARSUGUDA-DURG	2	183	554	0.0	3.6	-3.6
4	400 kV	JHARSUGUDA-RAIGARH	4	212	343	0.0	2.2	-2.2
5	400 kV	RANCHI-SIPAT	2	584	103	7.1	0.0	7.1
6	220 kV	BUDHIPADAR-RAIGARH	1	45	57	0.0	0.1	-0.1
7	220 kV	BUDHIPADAR-KORBA	2	44	62	0.0	0.1	-0.1
ER-WR						40.8	12.6	28.2
Import/Export of ER (With SR)								
1	HVDC	JEYPORE-GAZUWAKA B/B	2	514	0	6.4	0.0	6.4
2	HVDC	TALCHER-KOLAR BIPOLE	2	0	793	0.0	15.4	-15.4
3	765 kV	ANGUL-SRIKAKULAM	2	0	2394	0.0	33.5	-33.5
4	400 kV	TALCHER-I/C	2	913	44	12.9	0.0	12.9
5	220 kV	BALIMELA-UPPER-SILERRU	1	0	0	0.0	0.0	0.0
ER-SR						6.4	48.9	-42.5
Import/Export of ER (With NER)								
1	400 kV	BINAGURI-BONGAIGAON	2	11	511	0.0	6.0	-6.0
2	400 kV	ALIPURDUAR-BONGAIGAON	2	61	601	0.0	7.4	-7.4
3	220 kV	ALIPURDUAR-SALAKATI	2	0	129	0.0	1.8	-1.8
ER-NER						0.0	15.2	-15.2
Import/Export of NER (With NR)								
1	HVDC	BISWANATH CHARIAL-AGRA	2	0	504	0.0	12.1	-12.1
NER-NR						0.0	12.1	-12.1
Import/Export of WR (With NR)								
1	HVDC	CHAMPA-KURUKSHETRA	2	0	5034	0.0	104.8	-104.8
2	HVDC	VINDHYACHAL B/B	-	0	107	0.0	1.3	-1.3
3	HVDC	MUNDRA-MOHINDERGARH	2	0	1447	0.0	23.4	-23.4
4	765 kV	GWALIOR-AGRA	2	0	2907	0.0	48.1	-48.1
5	765 kV	GWALIOR-PHAGI	2	991	1443	2.8	17.6	-14.8
6	765 kV	JABALPUR-ORAI	2	0	1368	0.0	46.3	-46.3
7	765 kV	GWALIOR-ORAI	1	530	70	8.4	0.1	8.4
8	765 kV	SATNA-ORAI	1	0	1086	0.0	21.1	-21.1
9	765 kV	BANASKANTHA-CHITTOGARH	2	0	2108	0.0	30.5	-30.5
10	765 kV	VINDHYACHAL-VARANASI	2	0	3956	0.0	74.4	-74.4
11	400 kV	ZERDA-KANKROLI	1	6	359	0.0	2.5	-2.5
12	400 kV	ZERDA-BHINMAL	1	4	326	0.0	3.3	-3.3
13	400 kV	VINDHYACHAL-RIHAND	1	964	0	20.7	0.0	20.7
14	400 kV	RAPP-SHUJALPUR	2	297	648	0.9	6.4	-5.5
15	400 kV	NEEMUCH-Chittorgarh	2	390	587	1.4	5.6	-4.2
16	220 kV	BHANPURA-RANPUR	1	0	105	0.0	1.9	-1.9
17	220 kV	BHANPURA-MORAK	1	0	30	0.0	2.1	-2.1
18	220 kV	MEHGAON-AURAIYA	1	71	27	0.3	0.1	0.2
19	220 kV	MALANPUR-AURAIYA	1	46	45	0.1	0.3	-0.2
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						34.7	389.6	-354.9
Import/Export of WR (With SR)								
1	HVDC	BHADRAWATI B/B	-	997	0	23.9	0.0	23.9
2	HVDC	RAIGARH-PUGALUR	2	774	0	11.7	0.0	11.7
3	765 kV	SOLAPUR-RAICHUR	2	2071	1195	16.7	2.1	14.6
4	765 kV	WARDHA-NIZAMABAD	2	87	2560	0.0	23.3	-23.3
5	765 kV	WARORA-WARANGAL(NEW)	2	256	2362	0.1	20.0	-19.9
6	400 kV	KOLHAPUR-KUDGI	2	2359	0	39.3	0.0	39.3
7	220 kV	KOLHAPUR-CHIKODI	2	0	0	0.0	0.0	0.0
8	220 kV	PONDA-AMBEWADI	1	0	0	0.0	0.0	0.0
9	220 kV	XELDEM-AMBEWADI	1	1	108	0.9	0.0	0.9
WR-SR						92.5	45.4	47.2

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)	729	-40	616	14.79	
	ER	400kV TALA-BINAGURI 1,2,4 (& 400kV MALBASE - BINAGURI i.e. BINAGURI RECEIPT (from TALA HEP 6*170MW)	911	0	706	16.94	
	ER	220kV CHUKHA-BIRPARA 1&2 (& 220kV MALBASE - BIRPARA) i.e. BIRPARA RECEIPT (from CHUKHA HEP 4*84MW)	159	77	119	2.86	
	NER	132kV GELEPHU-SALAKATI	62	0	29	0.69	
	NER	132kV MOTANGA-RANGIA	67	0	54	1.30	
NEPAL	NR	NEPAL IMPORT (FROM UP)	-26	0	0	0.00	
	NR	132kV MAHENDRANAGAR-TANAKPUR(NHPC)	66	0	44	1.05	
	ER	NEPAL IMPORT (FROM BIHAR)	0	0	0	0.00	
	ER	400kV DHALKEBAR-MUZAFFARPUR 1&2	686	410	613	14.71	
BANGLADESH	ER	BHERAMARA B/B HVDC (B'DESH)	-927	-925	-925	-22.21	
	ER (Isolated from Indian Grid)	400kV GODDA_TPS-RAHANPUR (B'DESH) D/C	-1519	-1110	-1282	-30.77	
	NER	132kV COMILLA-SURAJMANI NAGAR 1&2	-90	0	-77	-1.85	

CROSS BORDER EXCHANGE SCHEDULE

Date of Reporting: 25-Jul-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	0.09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.09
Bangladesh	22.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	22.20
Myanmar	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total Export	22.29	0.00	0.00	0.00	0.00	0.00	0.00	0.00	22.29

Import by India(in MU)

Country	GNA (ISGA/PPA)	T-GNA							TOTAL
		BILATERAL TOTAL	COLLECTIVE						
			IDAM			RTM			
			IEX	PXIL	HPX	IEX	PXIL	HPX	
Bhutan	36.75	0.00	1.32	0.00	0.00	0.00	0.00	0.00	38.07
Nepal	2.63	0.00	11.98	0.00	0.00	0.31	0.00	0.00	14.92
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	39.38	0.00	13.30	0.00	0.00	0.31	0.00	0.00	52.99

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	36.75	0.00	1.32	0.00	0.00	0.00	0.00	0.00	38.07
Nepal	2.54	0.00	11.98	0.00	0.00	0.31	0.00	0.00	14.83
Bangladesh	-22.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-22.20
Myanmar	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total Net	17.09	0.00	13.30	0.00	0.00	0.31	0.00	0.00	30.70