



National Load Despatch Centre
राष्ट्रीय भार प्रेषण केंद्र
GRID CONTROLLER OF INDIA LIMITED
ग्रीड 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: 11.07.2024

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 10.07.2024.

महोदय/Dear Sir,

आईईजीसी-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 10-जुलाई-2024 की अखिल भारतीय प्रणाली की दैनिक ग्रीड 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 10.07.2024, is available at the NLDC website.

धन्यवाद,
Thanks

Report for previous day

Date of Reporting: 11-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)	74670	60744	47128	27627	3327	213496
Peak Shortage (MW)	995	62	0	0	0	1057
Energy Met (MU)	1737	1391	1152	626	63	4968
Hydro Gen (MU)	391	37	71	73	40	611
Wind Gen (MU)	16	68	188	-	-	272
Solar Gen (MU)*	165.91	81.51	125.75	3.34	0.51	377
Energy Shortage (MU)	7.44	0.91	0.83	1.35	0.00	10.53
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	78441	61280	53685	30475	3323	217154
Time Of Maximum Demand Met	12:22	19:54	09:49	22:51	19:54	15:00

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	0.040	0.00	0.65	7.12	7.77	73.31	18.92

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	15135	0	324.6	206.4	-1.5	400	0.00
	Haryana	13055	0	271.1	201.2	-0.2	274	0.79
	Rajasthan	14832	0	316.5	114.0	3.1	561	5.57
	Delhi	6313	0	132.5	122.1	-1.6	187	0.00
	UP	26093	0	534.9	261.1	-2.6	249	0.00
	Uttarakhand	2268	0	50.3	26.4	1.5	283	1.08
	HP	1975	0	40.3	1.6	-0.3	187	0.00
	J&K(UT) & Ladakh(UT)	2621	0	54.9	29.8	-1.1	172	0.00
	Chandigarh	388	0	7.9	7.9	0.0	52	0.00
Railways NR ISTS	203	0	4.3	3.7	0.6	76	0.00	
WR	Chhattisgarh	5699	62	132.5	81.9	-0.1	474	0.91
	Gujarat	18594	0	402.7	149.5	-2.1	764	0.00
	MP	12102	0	263.8	136.6	-3.9	513	0.00
	Maharashtra	23812	0	518.2	157.8	-7.5	773	0.00
	Goa	623	0	12.5	12.6	-0.4	51	0.00
	DNHDDPDCL	1320	0	30.4	31.1	-0.7	87	0.00
	AMNSIL	818	0	17.8	6.2	-0.2	319	0.00
BALCO	527	0	12.6	12.6	0.0	9	0.00	
SR	Andhra Pradesh	10413	0	216.2	50.8	2.0	766	0.00
	Telangana	11640	0	235.3	135.4	0.6	804	0.00
	Karnataka	12725	0	232.9	50.6	-1.7	1086	0.00
	Kerala	3990	0	78.0	44.5	2.9	456	0.83
	Tamil Nadu	17388	0	378.6	154.3	-2.7	714	0.00
	Puducherry	482	0	10.6	9.9	0.1	91	0.00
ER	Bihar	7048	0	138.8	130.2	-1.8	549	1.26
	DVC	3445	0	74.9	-45.4	-1.1	232	0.00
	Jharkhand	2140	0	46.5	34.5	-0.2	237	0.10
	Odisha	6099	0	124.1	36.8	-0.6	466	0.00
	West Bengal	11805	0	239.7	94.8	1.1	922	0.00
	Sikkim	81	0	1.3	1.4	0.0	31	0.00
Railways ER ISTS	15	0	0.1	0.2	0.0	2	0.00	
NER	Arunachal Pradesh	154	0	2.6	2.3	-0.2	24	0.00
	Assam	2180	0	40.4	32.5	0.0	107	0.00
	Manipur	184	0	2.9	2.9	0.0	23	0.00
	Meghalaya	326	0	6.1	-0.8	0.0	44	0.00
	Mizoram	118	0	2.0	0.7	-0.2	8	0.00
	Nagaland	171	0	3.0	2.8	0.0	23	0.00
Tripura	312	0	5.9	5.2	0.1	44	0.00	

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

	Bhutan	Nepal	Bangladesh	Godda -> Bangladesh
Actual (MU)	37.9	16.9	-24.4	-33.7
Day Peak (MW)	1835.0	753.0	-1030.0	-1528.1

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	381.2	-295.3	13.7	-91.3	-8.3	0.0
Actual(MU)	363.0	-294.9	26.2	-95.8	-10.9	-12.4
O/D/U/D(MU)	-18.2	0.5	12.6	-4.6	-2.7	-12.4

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL	% Share
Central Sector	3118	11825	6138	5241	647	26970	55
State Sector	6281	8533	5638	1174	119	21745	45
Total	9399	20358	11776	6415	766	48714	100

G. Sourcewise generation (Gross) (MU)

	NR	WR	SR	ER	NER	All India	% Share
Coal	811	1528	669	711	16	3734	70
Lignite	30	17	49	0	0	95	2
Hydro	391	37	71	73	40	611	11
Nuclear	30	47	60	0	0	137	3
Gas, Naptha & Diesel	17	38	5	0	23	83	2
RES (Wind, Solar, Biomass & Others)	188	152	341	5	1	687	13
Total	1467	1819	1194	788	80	5348	100

Share of RES in total generation (%)	12.83	8.36	28.58	0.60	0.70	12.84
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	41.52	12.99	39.49	9.81	50.63	26.82

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.046
Based on State Max Demands	1.091

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

	Max Demand Met(MW)	Time	Shortage(MW)
Solar hr	217154	15:00	0
Non-Solar hr	215712	22:27	1248

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: 11-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	350	0.0	8.2	-8.2
2	HVDC	PUSAULI B/B	-	1	95	0.0	2.2	-2.2
3	765 kV	GAYA-VARANASI	2	240	734	0.0	6.5	-6.5
4	765 kV	SASARAM-FATEHPUR	1	0	448	0.0	4.6	-4.6
5	765 kV	GAYA-BALIA	1	0	555	0.0	9.9	-9.9
6	400 kV	PUSAULI-VARANASI	1	43	99	0.0	1.3	-1.3
7	400 kV	PUSAULI-ALLAHABAD	1	6	79	0.0	0.9	-0.9
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	0	738	0.0	12.8	-12.8
9	400 kV	PATNA-BALIA	2	0	455	0.0	12.4	-12.4
10	400 kV	NAUBATPUR-BALIA	2	0	469	0.0	3.3	-3.3
11	400 kV	BIHARSHARIFF-BALIA	2	180	92	0.6	0.0	0.6
12	400 kV	MOTIHARI-GORAKHPUR	2	0	443	0.0	8.4	-8.4
13	400 kV	BIHARSHARIFF-VARANASI	2	0	0	0.0	0.0	0.0
14	220 kV	SAHUPURI-KARAMNANA	1	16	59	0.0	0.9	-0.9
15	132 kV	NAGAR UNTARI-RIHAND	1	0	0	0.0	0.0	0.0
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						1.1	71.3	-70.2
Import/Export of ER (With WR)								
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	618	742	0.0	2.5	-2.5
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	2247	0	35.2	0.0	35.2
3	765 kV	JHARSUGUDA-DURG	2	20	244	0.0	2.7	-2.7
4	400 kV	JHARSUGUDA-RAIGARH	4	301	265	0.0	0.0	0.0
5	400 kV	RANCHI-SIPAT	2	540	0	6.0	0.0	6.0
6	220 kV	BUDHIPADAR-RAIGARH	1	0	171	0.0	3.0	-3.0
7	220 kV	BUDHIPADAR-KORBA	2	0	157	0.0	2.3	-2.3
ER-WR						41.1	10.5	30.7
Import/Export of ER (With SR)								
1	HVDC	JEYPORE-GAZUWAKA B/B	2	0	111	0.0	2.6	-2.6
2	HVDC	TALCHER-KOLAR BIPOLE	2	0	1997	0.0	48.2	-48.2
3	765 kV	ANGUL-SRIKAKULAM	2	0	2017	0.0	30.3	-30.3
4	400 kV	TALCHER-I/C	2	0	840	0.0	17.4	-17.4
5	220 kV	BALIMELA-UPPER-SILERRU	1	0	0	0.0	0.0	0.0
ER-SR						0.0	81.1	-81.1
Import/Export of ER (With NER)								
1	400 kV	BINAGURI-BONGAIGAON	2	174	216	0.6	1.6	-1.0
2	400 kV	ALIPURDUAR-BONGAIGAON	2	195	390	0.0	2.5	-2.5
3	220 kV	ALIPURDUAR-SALAKATI	2	35	105	0.0	0.7	-0.7
ER-NER						0.6	4.7	-4.1
Import/Export of NER (With NR)								
1	HVDC	BISWANATH CHARIALI-AGRA	2	0	704	0.0	16.9	-16.9
NER-NR						0.0	16.9	-16.9
Import/Export of WR (With NR)								
1	HVDC	CHAMPA-KIRUKSHETRA	2	0	4018	0.0	74.9	-74.9
2	HVDC	VINDHYACHAL B/B	-	485	0	6.8	0.0	6.8
3	HVDC	MUNDRA-MOHINDERGARH	2	0	2352	0.0	44.5	-44.5
4	765 kV	GWALIOR-AGRA	2	0	2411	0.0	39.9	-39.9
5	765 kV	GWALIOR-PHAGI	2	124	1866	0.1	24.3	-24.2
6	765 kV	JABALPUR-ORAI	2	0	1258	0.0	42.4	-42.4
7	765 kV	GWALIOR-ORAI	1	737	0	11.8	0.0	11.8
8	765 kV	SATNA-ORAI	1	0	1084	0.0	22.5	-22.5
9	765 kV	BANASKANTHA-CHITTOGARH	2	878	872	4.8	5.3	-0.5
10	765 kV	VINDHYACHAL-VARANASI	2	0	3511	0.0	63.0	-63.0
11	400 kV	ZERDA-KANKROLI	1	205	122	1.1	0.8	0.4
12	400 kV	ZERDA -BHINMAL	1	142	84	0.8	0.5	0.2
13	400 kV	VINDHYACHAL -RIHAND	1	959	0	21.6	0.0	21.6
14	400 kV	RAPP-SHUJALPUR	2	159	538	0.6	6.0	-5.4
15	400 kV	NEEMUCH-Chittorgarh	2	244	535	1.2	5.7	-4.5
16	220 kV	BHANPURA-RANPUR	1	0	186	0.0	3.3	-3.3
17	220 kV	BHANPURA-MORAK	1	0	30	0.0	2.4	-2.4
18	220 kV	MEHGAON-AURAIYA	1	66	10	0.6	0.0	0.6
19	220 kV	MALANPUR-AURAIYA	1	41	26	0.2	0.1	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						49.4	335.4	-286.0
Import/Export of WR (With SR)								
1	HVDC	BHADRAWATI B/B	-	998	0	23.9	0.0	23.9
2	HVDC	RAIGARH-PUGALUR	2	0	1004	0.0	24.1	-24.1
3	765 kV	SOLAPUR-RAICHUR	2	1971	478	26.8	0.4	26.4
4	765 kV	WARDHA-NIZAMABAD	2	0	1949	0.0	19.6	-19.6
5	765 kV	WARORA-WARANGAL(NEW)	2	110	1886	0.0	17.4	-17.4
6	400 kV	KOLHAPUR-KUDGI	2	1674	0	30.7	0.0	30.7
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	0	102	2.0	0.0	2.0
WR-SR						83.4	61.5	21.8

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)	720	0	660	15.83	
	ER	400kV TALA-BINAGURI 1,2,4 (& 400kV MALBASE - BINAGURI i.e. BINAGURI RECEIPT (from TALA HEP 6*170MW)	909	834	837	20.10	
	ER	220kV CHUKHA-BIRPARA 1&2 (& 220kV MALBASE - BIRPARA) i.e. BIRPARA RECEIPT (from CHUKHA HEP 4*84MW)	75	0	5	0.11	
	NER	132kV GELEPHU-SALAKATI	40	0	33	0.79	
	NER	132kV MOTANGA-RANGIA	57	0	44	1.06	
NEPAL	NR	NEPAL IMPORT (FROM UP)	-38	0	-20	-0.47	
	NR	132kV MAHENDRANAGAR-TANAKPUR(NHPC)	63	0	41	0.98	
	ER	NEPAL IMPORT (FROM BIHAR)	0	0	0	0.00	
	ER	400kV DHALKEBAR-MUZAFFARPUR 1&2	690	410	683	16.40	
BANGLADESH	ER	BHERAMARA B/B HVDC (B'DESH)	-938	-864	-933	-22.38	
	ER (Isolated from Indian Grid)	400kV GODDA_TPS-RAHANPUR (B'DESH) D/C	-1528	-1246	-1405	-33.72	
	NER	132kV COMILLA-SURAJMANI NAGAR 1&2	-92	0	-84	-2.02	

CROSS BORDER EXCHANGE SCHEDULE

Date of Reporting: 11-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	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.05
Bangladesh	22.27	0.00	0.00	0.00	0.00	0.00	0.00	0.00	22.27
Myanmar	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total Export	22.32	0.00	0.00	0.00	0.00	0.00	0.00	0.00	22.32

Import by India(in MU)

Country	GNA (ISGA/PPA)	T-GNA							TOTAL
		BILATERAL TOTAL	COLLECTIVE						
			IDAM			RTM			
			IEX	PXIL	HPX	IEX	PXIL	HPX	
Bhutan	35.23	0.00	1.47	0.00	0.00	0.00	0.00	0.00	36.70
Nepal	2.63	0.00	12.49	0.00	0.00	0.66	0.00	0.00	15.78
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	37.86	0.00	13.96	0.00	0.00	0.66	0.00	0.00	52.48

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	35.23	0.00	1.47	0.00	0.00	0.00	0.00	0.00	36.70
Nepal	2.58	0.00	12.49	0.00	0.00	0.66	0.00	0.00	15.73
Bangladesh	-22.27	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-22.27
Myanmar	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total Net	15.54	0.00	13.96	0.00	0.00	0.66	0.00	0.00	30.16