



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: 01.08.2024

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 31.07.2024.

महोदय/Dear Sir,

आईईजीसी-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 31-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 31.07.2024, is available at the NLDC website.

धन्यवाद,
Thanks

Report for previous day

Date of Reporting: 01-Aug-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)	68369	56539	48249	27303	3586	204046
Peak Shortage (MW)	0	0	0	0	0	0
Energy Met (MU)	1853	1299	1186	622	70	5030
Hydro Gen (MU)	368	53	162	80	31	694
Wind Gen (MU)	24	146	243	-	-	412
Solar Gen (MU)*	150.22	62.46	119.39	2.22	1.00	335
Energy Shortage (MU)	1.09	0.69	0.00	2.28	0.00	4.06
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	85225	57347	56170	29076	3656	225361
Time Of Maximum Demand Met	14:23	19:44	09:51	00:01	18:59	11:53

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	1.69	1.69	73.32	24.99

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	15429	0	353.2	218.3	1.1	326	0.00
	Haryana	14524	0	287.1	223.1	-12.9	509	0.00
	Rajasthan	16090	0	340.4	113.7	-2.2	669	1.09
	Delhi	8097	0	157.2	131.3	-2.5	263	0.00
	UP	29320	0	562.9	281.4	-8.9	271	0.00
	Uttarakhand	2269	0	47.6	20.1	-1.4	239	0.00
	HP	1849	0	39.7	2.4	1.4	153	0.00
	J&K(UT) & Ladakh(UT)	2550	0	52.1	29.3	1.0	380	0.00
	Chandigarh	413	0	8.3	8.4	-0.1	51	0.00
Railways NR ISTS	218	0	4.3	3.7	0.6	118	0.00	
WR	Chhattisgarh	4145	0	92.0	49.0	-2.2	242	0.00
	Gujarat	17095	0	381.2	116.8	-11.4	263	0.00
	MP	12158	268	257.0	143.2	-4.9	319	0.69
	Maharashtra	22692	0	494.7	174.0	-5.6	620	0.00
	Goa	655	0	13.9	13.3	0.2	53	0.00
	DNHDDPDCL	1284	0	29.5	29.6	-0.1	66	0.00
	AMNSIL	799	0	18.1	4.3	0.4	281	0.00
	BALCO	527	0	12.6	12.7	-0.1	2	0.00
	Andhra Pradesh	11020	0	225.9	56.7	0.4	966	0.00
SR	Telangana	13541	0	265.7	157.8	-0.3	1074	0.00
	Karnataka	11801	0	213.7	-5.2	-2.7	1155	0.00
	Kerala	3728	0	74.4	38.8	0.0	624	0.00
	Tamil Nadu	18542	0	395.7	169.2	0.8	1256	0.00
	Puducherry	497	0	11.1	10.3	0.2	75	0.00
	Bihar	7560	274	159.0	155.0	-3.5	588	2.28
ER	DVC	3414	0	72.9	-42.3	-0.6	458	0.00
	Jharkhand	2043	0	43.2	32.9	-0.6	300	0.00
	Odisha	5476	0	110.3	39.4	-4.0	655	0.00
	West Bengal	10944	0	234.7	99.5	-2.0	586	0.00
	Sikkim	82	0	1.3	1.2	0.1	35	0.00
	Railways ER ISTS	11	0	0.1	0.2	-0.1	0	0.00
NER	Arunachal Pradesh	181	0	3.5	2.8	0.3	18	0.00
	Assam	2500	0	48.3	42.1	-1.3	187	0.00
	Manipur	196	0	1.4	3.0	-1.5	13	0.00
	Meghalaya	328	0	6.0	0.6	0.3	40	0.00
	Mizoram	121	0	2.0	0.7	0.0	54	0.00
	Nagaland	171	0	3.1	2.7	-0.1	20	0.00
Tripura	313	0	6.1	7.1	0.7	116	0.00	

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

	Bhutan	Nepal	Bangladesh	Godda -> Bangladesh
Actual (MU)	36.8	14.2	-23.8	-27.2
Day Peak (MW)	1996.0	698.2	-1036.0	-1524.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	428.9	-355.0	-14.8	-67.5	8.4	0.0
Actual(MU)	411.4	-365.3	8.8	-69.3	7.9	-6.5
O/D/U/D(MU)	-17.6	-10.3	23.6	-1.8	-0.5	-6.5

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL	% Share
Central Sector	3967	10660	6388	5231	530	26776	49
State Sector	3061	11393	9941	2854	232	27480	51
Total	7028	22053	16329	8085	761	54256	100

G. Sourcewise generation (Gross) (MU)

	NR	WR	SR	ER	NER	All India	% Share
Coal	885	1390	583	677	14	3548	66
Lignite	27	12	42	0	0	81	2
Hydro	368	53	162	80	31	694	13
Nuclear	34	66	76	0	0	176	3
Gas, Naptha & Diesel	36	52	5	0	24	117	2
RES (Wind, Solar, Biomass & Others)	181	211	387	4	1	784	15
Total	1530	1785	1254	761	71	5401	100

Share of RES in total generation (%)	11.81	11.83	30.86	0.58	1.43	14.52
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	38.06	18.51	49.85	11.09	45.83	30.64

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.027
Based on State Max Demands	1.076

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

	Max Demand Met(MW)	Time	Shortage(MW)
Solar hr	225361	11:53	0
Non-Solar hr	210799	0:06	1985

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: 01-Aug-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	701	0.0	16.1	-16.1
2	HVDC	PUSAULI B/B	-	0	95	0.0	2.4	-2.4
3	765 kV	GAYA-VARANASI	2	574	662	0.0	5.0	-5.0
4	765 kV	SASARAM-FATEHPUR	1	184	329	0.0	2.7	-2.7
5	765 kV	GAYA-BALIA	1	0	800	0.0	13.1	-13.1
6	400 kV	PUSAULI-VARANASI	1	0	106	0.0	1.5	-1.5
7	400 kV	PUSAULI-ALLAHABAD	1	12	54	0.0	0.7	-0.7
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	174	598	0.0	6.4	-6.4
9	400 kV	PATNA-BALIA	2	228	461	0.0	5.0	-5.0
10	400 kV	NAUBATPUR-BALIA	2	227	268	0.0	0.8	-0.8
11	400 kV	BIHARSHARIFF-BALIA	2	362	55	2.7	0.0	2.7
12	400 kV	MOTIHARI-GORAKHPUR	2	103	370	0.0	3.7	-3.7
13	400 kV	BIHARSHARIFF-VARANASI	2	110	272	0.0	0.0	0.0
14	220 kV	SAHUPURI-KARAMNANA	1	0	189	0.0	1.1	-1.1
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						3.2	58.5	-55.2
Import/Export of ER (With WR)								
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	712	1356	0.0	8.0	-8.0
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	2289	0	33.8	0.0	33.8
3	765 kV	JHARSUGUDA-DURG	2	216	403	0.0	1.9	-1.9
4	400 kV	JHARSUGUDA-RAIGARH	4	340	207	0.8	0.0	0.8
5	400 kV	RANCHI-SIPAT	2	614	0	7.8	0.0	7.8
6	220 kV	BUDHIPADAR-RAIGARH	1	44	95	0.0	0.6	-0.6
7	220 kV	BUDHIPADAR-KORBA	2	100	81	0.0	0.1	-0.1
ER-WR						42.3	10.6	31.7
Import/Export of ER (With SR)								
1	HVDC	JEYPORE-GAZUWAKA B/B	2	300	0	7.2	0.0	7.2
2	HVDC	TALCHER-KOLAR BIPOLE	2	0	1991	0.0	33.0	-33.0
3	765 kV	ANGUL-SRIKAKULAM	2	0	2505	0.0	36.4	-36.4
4	400 kV	TALCHER-I/C	2	678	757	0.0	0.7	-0.7
5	220 kV	BALIMELA-UPPER-SILERRU	1	0	0	0.0	0.0	0.0
ER-SR						7.2	69.4	-62.3
Import/Export of ER (With NER)								
1	400 kV	BINAGURI-BONGAIGAON	2	0	447	0.0	5.3	-5.3
2	400 kV	ALIPURDUAR-BONGAIGAON	2	0	602	0.0	6.3	-6.3
3	220 kV	ALIPURDUAR-SALAKATI	2	0	104	0.0	1.3	-1.3
ER-NER						0.0	12.9	-12.9
Import/Export of NER (With NR)								
1	HVDC	BISWANATH CHARIALI-AGRA	2	0	307	0.0	7.4	-7.4
NER-NR						0.0	7.4	-7.4
Import/Export of WR (With NR)								
1	HVDC	CHAMPA-KIRUKSHETRA	2	0	4515	0.0	79.0	-79.0
2	HVDC	VINDHYACHAL B/B	-	47	59	0.0	1.2	-1.2
3	HVDC	MUNDRA-MOHINDERGARH	2	0	2358	0.0	53.6	-53.6
4	765 kV	GWALIOR-AGRA	2	0	3027	0.0	50.7	-50.7
5	765 kV	GWALIOR-PHAGI	2	554	1566	1.9	15.8	-13.9
6	765 kV	JABALPUR-ORAI	2	0	1509	0.0	48.4	-48.4
7	765 kV	GWALIOR-ORAI	1	684	0	9.8	0.0	9.8
8	765 kV	SATNA-ORAI	1	0	1045	0.0	21.1	-21.1
9	765 kV	BANASKANTHA-CHITTOGARH	2	120	1902	0.0	26.0	-26.0
10	765 kV	VINDHYACHAL-VARANASI	2	0	3887	0.0	69.8	-69.8
11	400 kV	ZERDA-KANKROLI	1	62	323	0.1	3.8	-3.7
12	400 kV	ZERDA -BHINMAL	1	43	224	0.1	2.6	-2.6
13	400 kV	VINDHYACHAL -RIHAND	1	966	0	21.2	0.0	21.2
14	400 kV	RAPP-SHUJALPUR	2	225	628	0.5	5.8	-5.3
15	400 kV	NEEMUCH-Chittorgarh	2	203	671	0.4	5.8	-5.5
16	220 kV	BHANPURA-RANPUR	1	0	114	0.0	1.9	-1.9
17	220 kV	BHANPURA-MORAK	1	0	30	0.0	1.7	-1.7
18	220 kV	MEHGAON-AURAIYA	1	60	19	0.3	0.0	0.3
19	220 kV	MALANPUR-AURAIYA	1	49	39	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						34.4	387.5	-353.2
Import/Export of WR (With SR)								
1	HVDC	BHADRAWATI B/B	-	999	0	19.4	0.0	19.4
2	HVDC	RAIGARH-PUGALUR	2	382	0	9.2	0.0	9.2
3	765 kV	SOLAPUR-RAICHUR	2	1745	616	15.9	2.3	13.5
4	765 kV	WARDHA-NIZAMABAD	2	0	2358	0.0	32.5	-32.5
5	765 kV	WARORA-WARANGAL(NEW)	2	146	2291	0.0	30.6	-30.5
6	400 kV	KOLHAPUR-KUDGI	2	2061	0	36.6	0.0	36.6
7	220 kV	KOLHAPUR-CHIKODI	2	0	0	0.0	0.0	0.0
8	220 kV	PONDA-AMBEWADI	1	0	0	2.1	0.0	2.1
9	220 kV	XELDEM-AMBEWADI	1	0	106	2.0	0.0	2.0
WR-SR						85.1	65.4	19.7

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)	695	629	658	15.79	
	ER	400kV TALA-BINAGURI 1,2,4 (& 400kV MALBASE - BINAGURI i.e. BINAGURI RECEIPT (from TALA HEP 6*170MW)	1016	679	788	18.91	
	ER	220kV CHUKHA-BIRPARA 1&2 (& 220kV MALBASE - BIRPARA) i.e. BIRPARA RECEIPT (from CHUKHA HEP 4*84MW)	124	-49	1	0.02	
	NER	132kV GELEPHU-SALAKATI	37	22	30	0.73	
	NER	132kV MOTANGA-RANGIA	68	45	57	1.37	
NEPAL	NR	NEPAL IMPORT (FROM UP)	-31	0	0	0.00	
	NR	132kV MAHENDRANAGAR-TANAKPUR(NHPC)	68	0	55	1.31	
	ER	NEPAL IMPORT (FROM BIHAR)	0	0	0	0.00	
	ER	400kV DHALKEBAR-MUZAFFARPUR 1&2	630	420	538	12.92	
BANGLADESH	ER	BHERAMARA B/B HVDC (B'DESH)	-932	-795	-897	-21.52	
	ER (Isolated from Indian Grid)	400kV GODDA_TPS-RAHANPUR (B'DESH) D/C	-1524	-710	-1133	-27.18	
	NER	132kV COMILLA-SURAJMANI NAGAR 1&2	-104	0	-93	-2.24	

CROSS BORDER EXCHANGE SCHEDULE

Date of Reporting: 01-Aug-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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Bangladesh	21.71	0.00	0.00	0.00	0.00	0.00	0.00	0.00	21.71
Myanmar	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total Export	21.71	0.00	0.00	0.00	0.00	0.00	0.00	0.00	21.71

Import by India(in MU)

Country	GNA (ISGA/PPA)	T-GNA							TOTAL
		BILATERAL TOTAL	COLLECTIVE						
			IDAM			RTM			
			IEX	PXIL	HPX	IEX	PXIL	HPX	
Bhutan	32.58	0.00	1.48	0.00	0.00	0.00	0.00	0.00	34.06
Nepal	2.63	0.00	10.38	0.00	0.00	0.72	0.00	0.00	13.73
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	35.21	0.00	11.86	0.00	0.00	0.72	0.00	0.00	47.79

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	32.58	0.00	1.48	0.00	0.00	0.00	0.00	0.00	34.06
Nepal	2.63	0.00	10.38	0.00	0.00	0.72	0.00	0.00	13.73
Bangladesh	-21.71	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-21.71
Myanmar	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total Net	13.50	0.00	11.86	0.00	0.00	0.72	0.00	0.00	26.08