



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: 31.07.2024

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 30.07.2024.

महोदय/Dear Sir,

आईईजीसी-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 30-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 30.07.2024, is available at the NLDC website.

धन्यवाद,
Thanks

Report for previous day

Date of Reporting: 31-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)	78821	56847	48516	28543	3574	216301
Peak Shortage (MW)	4968	1030	30	761	0	6789
Energy Met (MU)	1925	1304	1175	641	70	5116
Hydro Gen (MU)	388	68	170	84	31	742
Wind Gen (MU)	13	107	247	-	-	367
Solar Gen (MU)*	152.63	55.34	110.41	2.68	0.73	322
Energy Shortage (MU)	41.71	6.10	0.15	4.90	0.00	52.86
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	88085	59255	55679	29700	3620	226630
Time Of Maximum Demand Met	12:40	19:40	11:26	22:50	19:37	11:40

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	0.053	0.10	2.19	11.11	13.40	76.81	9.79

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	15675	0	347.6	210.4	-0.2	464	0.00
	Haryana	13952	90	293.4	213.4	4.4	543	9.53
	Rajasthan	15746	0	330.8	109.5	6.3	705	15.58
	Delhi	7862	0	163.1	136.5	1.6	361	0.00
	UP	29004	0	630.2	305.9	1.4	477	14.75
	Uttarakhand	2476	0	54.4	24.0	1.2	233	0.60
	HP	1806	0	39.3	0.1	3.4	360	0.00
	J&K(UT) & Ladakh(UT)	2497	200	53.0	27.9	0.1	410	1.25
	Chandigarh	424	0	8.5	7.8	0.8	95	0.00
Railways NR ISTS	219	0	4.5	3.5	1.1	116	0.00	
WR	Chhattisgarh	4474	0	98.4	54.5	-1.8	219	0.00
	Gujarat	17066	0	382.7	145.4	-9.2	196	0.00
	MP	11543	662	252.7	131.2	-0.9	885	6.10
	Maharashtra	22715	0	496.7	166.2	-0.4	786	0.00
	Goa	653	0	14.1	13.1	0.6	80	0.00
	DNHDDPDCL	1292	0	29.7	30.1	-0.4	24	0.00
	AMNSIL	796	0	17.2	3.4	0.2	244	0.00
	BALCO	528	0	12.6	12.7	-0.1	6	0.00
SR	Andhra Pradesh	10594	0	222.9	38.0	1.5	800	0.00
	Telangana	13463	0	267.9	152.6	0.7	594	0.00
	Karnataka	11459	0	215.2	0.0	2.4	1400	0.00
	Kerala	3658	0	72.6	36.1	1.1	588	0.00
	Tamil Nadu	17835	0	385.8	139.3	1.8	1613	0.00
	Puducherry	481	30	10.8	9.7	0.4	88	0.15
ER	Bihar	7825	672	172.8	164.2	2.4	653	4.19
	DVC	3416	0	75.0	-43.3	-0.8	283	0.00
	Jharkhand	2230	0	45.2	33.4	-0.1	169	0.71
	Odisha	5597	0	112.1	36.8	-1.9	300	0.00
	West Bengal	11076	0	234.9	99.5	0.2	328	0.00
	Sikkim	79	0	1.3	1.2	0.0	36	0.00
Railways ER ISTS	19	0	0.2	0.2	0.0	0	0.00	
NER	Arunachal Pradesh	174	0	4.8	2.8	1.5	26	0.00
	Assam	2394	0	47.6	40.1	0.4	147	0.00
	Manipur	212	0	1.4	2.9	-1.5	22	0.00
	Meghalaya	359	0	5.6	0.2	-0.1	164	0.00
	Mizoram	122	0	2.0	0.7	-0.1	12	0.00
	Nagaland	176	0	2.9	2.5	-0.1	12	0.00
Tripura	349	0	6.2	6.4	0.8	124	0.00	

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

	Bhutan	Nepal	Bangladesh	Godda -> Bangladesh
Actual (MU)	41.0	14.6	-24.1	-33.2
Day Peak (MW)	2036.0	690.1	-1037.0	-1535.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	431.9	-315.6	-62.8	-59.2	5.8	0.0
Actual(MU)	447.4	-339.9	-56.7	-61.4	5.4	-5.2
O/D/U/D(MU)	15.5	-24.3	6.2	-2.2	-0.5	-5.2

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL	% Share
Central Sector	2056	10763	6598	5231	301	24949	48
State Sector	3426	11933	9021	2894	167	27440	52
Total	5481	22696	15619	8125	468	52389	100

G. Sourcewise generation (Gross) (MU)

	NR	WR	SR	ER	NER	All India	% Share
Coal	928	1388	635	684	16	3652	66
Lignite	25	14	44	0	0	83	2
Hydro	388	68	170	84	31	742	13
Nuclear	32	66	76	0	0	174	3
Gas, Naptha & Diesel	40	51	4	0	23	119	2
RES (Wind, Solar, Biomass & Others)	173	165	380	5	1	724	13
Total	1587	1753	1309	774	71	5493	100

Share of RES in total generation (%)	10.88	9.43	29.05	0.65	1.02	13.18
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	37.39	17.10	47.81	11.53	44.34	29.85

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.042
Based on State Max Demands	1.060

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

	Max Demand Met(MW)	Time	Shortage(MW)
Solar hr	226630	11:40	0
Non-Solar hr	218379	19:50	3248

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: 31-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	701	0.0	15.9	-15.9
2	HVDC	PUSAULI B/B	-	0	95	0.0	2.4	-2.4
3	765 kV	GAYA-VARANASI	2	161	690	0.0	7.2	-7.2
4	765 kV	SASARAM-FATEHPUR	1	42	250	0.0	2.6	-2.6
5	765 kV	GAYA-BALIA	1	0	796	0.0	15.1	-15.1
6	400 kV	PUSAULI-VARANASI	1	0	95	0.0	1.6	-1.6
7	400 kV	PUSAULI-ALLAHABAD	1	3	54	0.0	0.7	-0.7
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	0	583	0.0	8.3	-8.3
9	400 kV	PATNA-BALIA	2	0	463	0.0	5.9	-5.9
10	400 kV	NAUBATPUR-BALIA	2	47	177	0.0	0.7	-0.7
11	400 kV	BIHARSHARIF-BALIA	2	197	61	1.2	0.0	1.2
12	400 kV	MOTIHARI-GORAKHPUR	2	0	289	0.0	4.1	-4.1
13	400 kV	BIHARSHARIF-VARANASI	2	0	0	0.0	0.0	0.0
14	220 kV	SAHUPURI-KARAMNANA	1	0	73	0.0	1.4	-1.4
15	132 kV	NAGAR UNTARI-RIHAND	1	0	0	0.0	0.0	0.0
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-CHANDALI	1	0	0	0.0	0.0	0.0
ER-NR						1.8	65.8	-64.0
Import/Export of ER (With WR)								
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	48	1062	0.0	14.8	-14.8
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	2315	0	37.2	0.0	37.2
3	765 kV	JHARSUGUDA-DURG	2	118	463	0.0	2.7	-2.7
4	400 kV	JHARSUGUDA-RAIGARH	4	229	268	0.0	0.8	-0.8
5	400 kV	RANCHI-SIPAT	2	587	0	8.1	0.0	8.1
6	220 kV	BUDHIPADAR-RAIGARH	1	2	92	0.0	1.0	-1.0
7	220 kV	BUDHIPADAR-KORBA	2	58	110	0.0	0.5	-0.5
ER-WR						45.3	19.8	25.5
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	693	0.0	17.0	-17.0
3	765 kV	ANGUL-SRIKAKULAM	2	0	2183	0.0	31.1	-31.1
4	400 kV	TALCHER-I/C	2	712	0	15.8	0.0	15.8
5	220 kV	BALIMELA-UPPER-SILERRU	1	0	0	0.0	0.0	0.0
ER-SR						7.2	48.0	-40.9
Import/Export of ER (With NER)								
1	400 kV	BINAGURI-BONGAIGAON	2	0	354	0.0	4.5	-4.5
2	400 kV	ALIPURDUAR-BONGAIGAON	2	46	483	0.0	5.3	-5.3
3	220 kV	ALIPURDUAR-SALAKATI	2	0	92	0.0	1.3	-1.3
ER-NER						0.0	11.0	-11.0
Import/Export of NER (With NR)								
1	HVDC	BISWANATH CHARIAL-AGRA	2	0	308	0.0	7.5	-7.5
NER-NR						0.0	7.5	-7.5
Import/Export of WR (With NR)								
1	HVDC	CHAMPA-KIRUKSHETRA	2	0	4019	0.0	95.3	-95.3
2	HVDC	VINDHYACHAL B/B	-	59	0	1.2	0.0	1.2
3	HVDC	MUNDRA-MOHINDERGARH	2	0	2357	0.0	60.4	-60.4
4	765 kV	GWALIOR-AGRA	2	0	2914	0.0	53.7	-53.7
5	765 kV	GWALIOR-PHAGI	2	108	1580	0.1	20.8	-20.7
6	765 kV	JABALPUR-ORAI	2	0	1433	0.0	60.8	-60.8
7	765 kV	GWALIOR-ORAI	1	722	0	11.4	0.0	11.4
8	765 kV	SATNA-ORAI	1	0	1066	0.0	21.3	-21.3
9	765 kV	BANASKANTHA-CHITTOGARH	2	948	1324	2.8	11.2	-8.5
10	765 kV	VINDHYACHAL-VARANASI	2	0	3865	0.0	70.3	-70.3
11	400 kV	ZERDA-KANKROLI	1	181	226	0.5	2.1	-1.6
12	400 kV	ZERDA -BHINMAL	1	125	157	0.4	1.5	-1.1
13	400 kV	VINDHYACHAL -RIHAND	1	973	0	22.4	0.0	22.4
14	400 kV	RAPP-SHUJALPUR	2	72	595	0.1	7.6	-7.5
15	400 kV	NEEMUCH-Chittorgarh	2	11	658	0.0	9.3	-9.3
16	220 kV	BHANPURA-RANPUR	1	0	109	0.0	1.9	-1.9
17	220 kV	BHANPURA-MORAK	1	0	30	0.0	1.5	-1.5
18	220 kV	MEHGAON-AURAIYA	1	57	35	0.6	0.1	0.6
19	220 kV	MALANPUR-AURAIYA	1	33	44	0.2	0.2	0.0
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						39.7	417.9	-378.2
Import/Export of WR (With SR)								
1	HVDC	BHADRAWATI B/B	-	998	0	23.9	0.0	23.9
2	HVDC	RAIGARH-PUGALUR	2	384	0	9.2	0.0	9.2
3	765 kV	SOLAPUR-RAICHUR	2	1993	531	23.7	0.4	23.3
4	765 kV	WARDHA-NIZAMABAD	2	0	2102	0.0	19.5	-19.5
5	765 kV	WARORA-WARANGAL(NEW)	2	35	1957	0.0	14.3	-14.3
6	400 kV	KOLHAPUR-KUDGI	2	2218	0	39.6	0.0	39.6
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	103	2.1	0.0	2.1
WR-SR						98.5	34.2	64.3

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)	704	649	685	16.44	
	ER	400kV TALA-BINAGURI 1,2,4 (& 400kV MALBASE - BINAGURI i.e. BINAGURI RECEIPT (from TALA HEP 6*170MW)	1027	789	875	21.00	
	ER	220kV CHUKHA-BIRPARA 1&2 (& 220kV MALBASE - BIRPARA) i.e. BIRPARA RECEIPT (from CHUKHA HEP 4*84MW)	124	0	65	1.55	
	NER	132kV GELEPHU-SALAKATI	37	25	30	0.73	
	NER	132kV MOTANGA-RANGIA	68	42	55	1.31	
NEPAL	NR	NEPAL IMPORT (FROM UP)	0	0	0	0.00	
	NR	132kV MAHENDRANAGAR-TANAKPUR(NHPC)	61	0	38	0.92	
	ER	NEPAL IMPORT (FROM BIHAR)	0	0	0	0.00	
	ER	400kV DHALKEBAR-MUZAFFARPUR 1&2	629	462	568	13.64	
BANGLADESH	ER	BHERAMARA B/B HVDC (B'DESH)	-936	-801	-912	-21.88	
	ER (Isolated from Indian Grid)	400kV GODDA_TPS-RAHANPUR (B'DESH) D/C	-1535	-1136	-1383	-33.18	
	NER	132kV COMILLA-SURAJMANI NAGAR 1&2	-101	0	-94	-2.26	

CROSS BORDER EXCHANGE SCHEDULE

Date of Reporting: 31-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	0.18	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18
Bangladesh	21.67	0.00	0.00	0.00	0.00	0.00	0.00	0.00	21.67
Myanmar	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total Export	21.85	0.00	0.00	0.00	0.00	0.00	0.00	0.00	21.85

Import by India(in MU)

Country	GNA (ISGA/PPA)	T-GNA							TOTAL
		BILATERAL TOTAL	COLLECTIVE						
			IDAM			RTM			
			IEX	PXIL	HPX	IEX	PXIL	HPX	
Bhutan	36.21	0.00	1.49	0.00	0.00	0.00	0.00	0.00	37.70
Nepal	2.63	0.00	11.14	0.00	0.00	0.39	0.00	0.00	14.16
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	38.84	0.00	12.63	0.00	0.00	0.39	0.00	0.00	51.86

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	36.21	0.00	1.49	0.00	0.00	0.00	0.00	0.00	37.70
Nepal	2.45	0.00	11.14	0.00	0.00	0.39	0.00	0.00	13.98
Bangladesh	-21.67	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-21.67
Myanmar	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total Net	16.99	0.00	12.63	0.00	0.00	0.39	0.00	0.00	30.01