



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: 29.07.2024

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 28.07.2024.

महोदय/Dear Sir,

आईईजीसी-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 28-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 28.07.2024, is available at the NLDC website.

धन्यवाद,
Thanks

Report for previous day

Date of Reporting: 29-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)	79605	53620	43015	27946	3597	207783
Peak Shortage (MW)	346	0	0	0	0	346
Energy Met (MU)	1810	1242	1049	621	73	4795
Hydro Gen (MU)	378	46	144	80	33	682
Wind Gen (MU)	14	127	310	-	-	451
Solar Gen (MU)*	140.35	48.24	103.55	2.49	1.30	296
Energy Shortage (MU)	2.71	0.00	0.00	1.23	0.00	3.94
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	81824	53915	49083	28496	3621	207538
Time Of Maximum Demand Met	22:05	19:26	09:29	22:41	20:35	22:14

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	0.029	0.00	0.28	7.04	7.31	80.94	11.75

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	15267	0	357.3	224.1	-1.2	164	0.00
	Haryana	12238	0	266.4	204.8	-1.0	228	0.00
	Rajasthan	13849	0	302.6	93.6	2.6	736	1.21
	Delhi	7123	0	141.9	123.3	0.5	175	0.00
	UP	29015	141	593.5	294.4	3.5	630	0.99
	Uttarakhand	2347	0	50.0	26.3	0.1	236	0.00
	HP	1572	0	35.4	-2.9	-0.4	62	0.00
	J&K(UT) & Ladakh(UT)	2446	140	51.0	26.7	-0.7	439	0.51
	Chandigarh	397	0	7.4	7.4	0.1	54	0.00
Railways NR ISTS	216	0	4.6	3.8	0.8	70	0.00	
WR	Chhattisgarh	4247	0	96.5	50.1	-1.5	184	0.00
	Gujarat	16992	0	383.9	157.8	-0.4	870	0.00
	MP	10826	0	232.9	125.7	-0.8	713	0.00
	Maharashtra	20833	0	457.6	150.7	-10.0	671	0.00
	Goa	595	0	12.6	12.2	0.1	44	0.00
	DNHDDPDCL	1239	0	28.8	29.0	-0.2	55	0.00
	AMNSIL	725	0	16.6	3.0	0.8	317	0.00
	BALCO	530	0	12.6	12.7	-0.1	9	0.00
SR	Andhra Pradesh	9990	0	209.3	19.3	-1.7	587	0.00
	Telangana	11647	0	232.1	129.2	0.7	803	0.00
	Karnataka	9650	0	178.1	-28.6	0.2	557	0.00
	Kerala	3451	0	71.5	40.2	-0.2	245	0.00
	Tamil Nadu	15608	0	348.4	124.6	-4.5	506	0.00
	Puducherry	458	0	10.1	9.5	-0.1	58	0.00
ER	Bihar	7879	30	168.8	161.4	1.0	400	0.74
	DVC	3361	0	73.2	-42.0	-0.6	339	0.00
	Jharkhand	2180	0	43.3	32.0	0.0	392	0.50
	Odisha	5536	0	115.7	41.3	-1.4	424	0.00
	West Bengal	10588	0	219.4	89.7	-1.1	467	0.00
	Sikkim	61	0	0.9	1.1	-0.3	9	0.00
	Railways ER ISTS	20	0	0.2	0.2	0.0	0	0.00
NER	Arunachal Pradesh	186	0	3.3	2.9	0.0	21	0.00
	Assam	2494	0	49.1	40.5	1.1	320	0.00
	Manipur	185	0	2.9	2.9	0.0	16	0.00
	Meghalaya	302	0	5.5	-0.6	0.0	106	0.00
	Mizoram	109	0	2.0	0.6	-0.1	14	0.00
	Nagaland	178	0	3.2	2.9	-0.3	19	0.00
	Tripura	334	0	6.7	6.2	0.5	77	0.00

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

	Bhutan	Nepal	Bangladesh	Godda -> Bangladesh
Actual (MU)	40.6	14.0	-24.4	-33.5
Day Peak (MW)	1912.0	703.6	-1036.0	-1522.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	424.5	-275.3	-98.9	-57.1	6.9	0.0
Actual(MU)	441.1	-269.5	-130.8	-54.2	6.1	-7.3
O/D/U/D(MU)	16.6	5.8	-31.9	3.0	-0.8	-7.3

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL	% Share
Central Sector	3107	11594	6348	5036	280	26365	48
State Sector	4691	11225	9851	2679	131	28576	52
Total	7798	22818	16199	7715	411	54941	100

G. Sourcewise generation (Gross) (MU)

	NR	WR	SR	ER	NER	All India	% Share
Coal	855	1301	543	652	14	3367	65
Lignite	23	17	44	0	0	84	2
Hydro	378	46	144	80	33	682	13
Nuclear	32	61	76	0	0	169	3
Gas, Naptha & Diesel	23	31	5	0	24	83	2
RES (Wind, Solar, Biomass & Others)	162	176	435	4	1	779	15
Total	1472	1634	1248	737	73	5164	100

Share of RES in total generation (%)	10.99	10.79	34.84	0.57	1.79	15.08
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	38.84	17.39	52.49	11.43	47.49	31.56

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.045
Based on State Max Demands	1.082

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

	Max Demand Met(MW)	Time	Shortage(MW)
Solar hr	205274	11:51	98
Non-Solar hr	207538	22:14	1383

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: 29-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	705	0.0	16.5	-16.5
2	HVDC	PUSAULI B/B	-	0	95	0.0	2.2	-2.2
3	765 kV	GAYA-VARANASI	2	725	508	0.0	2.6	-2.6
4	765 kV	SASARAM-FATEHPUR	1	287	221	0.0	4.8	-4.8
5	765 kV	GAYA-BALIA	1	0	872	0.0	14.1	-14.1
6	400 kV	PUSAULI-VARANASI	1	0	123	0.0	1.7	-1.7
7	400 kV	PUSAULI-ALLAHABAD	1	30	62	0.0	0.5	-0.5
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	31	625	0.0	9.9	-9.9
9	400 kV	PATNA-BALIA	2	295	412	0.0	5.0	-5.0
10	400 kV	NAUBATPUR-BALIA	2	163	95	0.0	0.4	-0.4
11	400 kV	BIHARSHARIFF-BALIA	2	330	59	1.5	0.0	1.5
12	400 kV	MOTIHARI-GORAKHPUR	2	77	316	0.0	4.5	-4.5
13	400 kV	BIHARSHARIFF-VARANASI	2	132	258	0.0	3.1	-3.1
14	220 kV	SAHUPURI-KARAMNANA	1	0	74	0.0	1.5	-1.5
15	132 kV	NAGAR UNTARI-RIHAND	1	0	0	0.1	0.0	0.1
16	132 kV	GARWAH-RIHAND	1	30	0	0.7	0.0	0.7
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						2.2	66.9	-64.6
Import/Export of ER (With WR)								
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	53	1419	0.0	18.3	-18.3
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	2350	0	35.2	0.0	35.2
3	765 kV	JHARSUGUDA-DURG	2	249	455	0.0	3.3	-3.3
4	400 kV	JHARSUGUDA-RAIGARH	4	147	245	0.0	1.2	-1.2
5	400 kV	RANCHI-SIPAT	2	573	0	7.0	0.0	7.0
6	220 kV	BUDHIPADAR-RAIGARH	1	18	74	0.0	0.7	-0.7
7	220 kV	BUDHIPADAR-KORBA	2	29	48	0.0	0.3	-0.3
ER-WR						42.2	23.8	18.5
Import/Export of ER (With SR)								
1	HVDC	JEYPORE-GAZUWAKA B/B	2	745	0	14.6	0.0	14.6
2	HVDC	TALCHER-KOLAR BIPOLE	2	0	696	0.0	14.7	-14.7
3	765 kV	ANGUL-SRIKAKULAM	2	0	1869	0.0	26.2	-26.2
4	400 kV	TALCHER-I/C	2	1011	0	14.6	0.0	14.6
5	220 kV	BALIMELA-UPPER-SILERRU	1	0	0	0.0	0.0	0.0
ER-SR						14.6	40.9	-26.3
Import/Export of ER (With NER)								
1	400 kV	BINAGURI-BONGAIGAON	2	35	341	0.0	4.5	-4.5
2	400 kV	ALIPURDUAR-BONGAIGAON	2	99	459	0.0	5.3	-5.3
3	220 kV	ALIPURDUAR-SALAKATI	2	0	98	0.0	1.5	-1.5
ER-NER						0.0	11.2	-11.2
Import/Export of NER (With NR)								
1	HVDC	BISWANATH CHARIALI-AGRA	2	0	344	0.0	7.3	-7.3
NER-NR						0.0	7.3	-7.3
Import/Export of WR (With NR)								
1	HVDC	CHAMPA-KURUKSHETRA	2	0	5528	0.0	110.0	-110.0
2	HVDC	VINDHYACHAL B/B	-	48	512	0.2	6.5	-6.4
3	HVDC	MUNDRA-MOHINDERGARH	2	0	2356	0.0	39.7	-39.7
4	765 kV	GWALIOR-AGRA	2	0	3045	0.0	51.2	-51.2
5	765 kV	GWALIOR-PHAGI	2	569	1653	1.5	21.2	-19.7
6	765 kV	JABALPUR-ORAI	2	0	1521	0.0	48.7	-48.7
7	765 kV	GWALIOR-ORAI	1	628	0	11.1	0.0	11.1
8	765 kV	SATNA-ORAI	1	0	1123	0.0	21.5	-21.5
9	765 kV	BANASKANTHA-CHITTOGARH	2	396	1251	1.1	11.7	-10.6
10	765 kV	VINDHYACHAL-VARANASI	2	0	4118	0.0	78.4	-78.4
11	400 kV	ZERDA-KANKROLI	1	133	265	0.4	2.2	-1.8
12	400 kV	ZERDA -BHINMAL	1	92	183	0.3	1.5	-1.3
13	400 kV	VINDHYACHAL -RIHAND	1	977	0	21.0	0.0	21.0
14	400 kV	RAPP-SHUJALPUR	2	242	718	0.7	7.6	-7.0
15	400 kV	NEEMUCH-Chittorgarh	2	227	773	0.4	8.7	-8.3
16	220 kV	BHANPURA-RANPUR	1	0	101	0.0	1.7	-1.7
17	220 kV	BHANPURA-MORAK	1	0	30	0.0	1.0	-1.0
18	220 kV	MEHGAON-AURAIYA	1	50	27	0.3	0.1	0.2
19	220 kV	MALANPUR-AURAIYA	1	21	47	0.1	0.4	-0.3
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						37.1	412.3	-375.3
Import/Export of WR (With SR)								
1	HVDC	BHADRAWATI B/B	-	997	0	20.7	0.0	20.7
2	HVDC	RAIGARH-PUGALUR	2	1828	0	32.4	0.0	32.4
3	765 kV	SOLAPUR-RAICHUR	2	2320	0	34.3	0.0	34.3
4	765 kV	WARDHA-NIZAMABAD	2	431	1493	1.6	9.0	-7.4
5	765 kV	WARORA-WARANGAL(NEW)	2	575	1314	2.8	6.8	-4.0
6	400 kV	KOLHAPUR-KUDGI	2	2446	0	46.5	0.0	46.5
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	112	2.1	0.0	2.1
WR-SR						140.2	15.7	124.5

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)	706	0	648	15.56	
	ER	400kV TALA-BINAGURI 1,2,4 (& 400kV MALBASE - BINAGURI i.e. BINAGURI RECEIPT (from TALA HEP 6*170MW)	913	839	843	20.22	
	ER	220kV CHUKHA-BIRPARA 1&2 (& 220kV MALBASE - BIRPARA) i.e. BIRPARA RECEIPT (from CHUKHA HEP 4*84MW)	135	82	115	2.75	
	NER	132kV GELEPHU-SALAKATI	36	0	32	0.76	
	NER	132kV MOTANGA-RANGIA	64	0	55	1.31	
NEPAL	NR	NEPAL IMPORT (FROM UP)	-3	0	0	0.00	
	NR	132kV MAHENDRANAGAR-TANAKPUR(NHPC)	68	0	42	1.01	
	ER	NEPAL IMPORT (FROM BIHAR)	0	0	0	0.00	
	ER	400kV DHALKEBAR-MUZAFFARPUR 1&2	636	411	541	12.98	
BANGLADESH	ER	BHERAMARA B/B HVDC (B'DESH)	-926	-915	-923	-22.16	
	ER (Isolated from Indian Grid)	400kV GODDA_TPS-RAHANPUR (B'DESH) D/C	-1522	-1302	-1395	-33.48	
	NER	132kV COMILLA-SURAJMANI NAGAR 1&2	-110	0	-93	-2.22	

CROSS BORDER EXCHANGE SCHEDULE

Date of Reporting: 29-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	0.26	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.26
Bangladesh	22.25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	22.25
Myanmar	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total Export	22.51	0.00	0.00	0.00	0.00	0.00	0.00	0.00	22.51

Import by India(in MU)

Country	GNA (ISGA/PPA)	T-GNA							TOTAL
		BILATERAL TOTAL	COLLECTIVE						
			IDAM			RTM			
			IEX	PXIL	HPX	IEX	PXIL	HPX	
Bhutan	37.78	0.00	1.10	0.00	0.00	0.00	0.00	0.00	38.88
Nepal	2.63	0.00	12.82	0.00	0.00	0.04	0.00	0.00	15.49
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	40.41	0.00	13.92	0.00	0.00	0.04	0.00	0.00	54.37

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	37.78	0.00	1.10	0.00	0.00	0.00	0.00	0.00	38.88
Nepal	2.37	0.00	12.82	0.00	0.00	0.04	0.00	0.00	15.23
Bangladesh	-22.25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-22.25
Myanmar	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total Net	17.90	0.00	13.92	0.00	0.00	0.04	0.00	0.00	31.86