



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: 20.07.2024

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 19.07.2024.

महोदय/Dear Sir,

आईईजीसी-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 19-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 19.07.2024, is available at the NLDC website.

धन्यवाद,
Thanks

Report for previous day

Date of Reporting: 20-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)	79959	60027	42191	28106	3639	213922
Peak Shortage (MW)	989	190	0	775	0	1954
Energy Met (MU)	1861	1399	999	646	72	4977
Hydro Gen (MU)	391	51	112	77	36	666
Wind Gen (MU)	8	119	318	-	-	445
Solar Gen (MU)*	157.10	75.48	78.74	2.97	1.20	315
Energy Shortage (MU)	4.79	0.80	0.00	6.42	0.00	12.01
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	83891	60112	46745	30086	3649	215795
Time Of Maximum Demand Met	14:48	19:48	10:04	00:00	19:54	14:51

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	0.021	0.00	0.00	3.00	3.00	88.09	8.91

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	15756	0	358.3	213.7	0.6	199	0.00
	Haryana	13508	0	279.3	203.3	-0.1	333	0.00
	Rajasthan	15102	0	320.5	115.5	3.9	1050	4.38
	Delhi	7316	0	149.1	124.4	0.8	225	0.00
	UP	28738	0	592.5	292.9	0.8	615	0.00
	Uttarakhand	2447	0	54.0	26.2	0.8	299	0.30
	HP	1856	0	39.5	2.5	-0.2	90	0.00
	J&K(UT) & Ladakh(UT)	2701	75	55.3	31.3	-1.9	222	0.11
	Chandigarh	421	0	8.2	7.9	0.3	90	0.00
Railways NR ISTS	205	0	4.3	3.6	0.7	105	0.00	
WR	Chhattisgarh	5708	0	132.6	81.0	1.1	349	0.42
	Gujarat	18417	0	414.1	143.2	-0.1	945	0.00
	MP	12433	0	271.5	150.0	-1.2	472	0.38
	Maharashtra	23002	0	507.1	150.0	-1.2	836	0.00
	Goa	626	0	12.5	12.4	0.0	181	0.00
	DNHDDPDCL	1276	0	29.4	29.7	-0.3	34	0.00
	AMNSIL	852	0	19.0	6.1	0.4	286	0.00
	BALCO	530	0	12.6	12.4	0.2	44	0.00
SR	Andhra Pradesh	8573	0	187.8	18.0	-1.9	424	0.00
	Telangana	10722	0	210.2	124.6	1.0	569	0.00
	Karnataka	10160	0	189.6	-33.1	-6.0	1068	0.00
	Kerala	3792	0	73.3	43.2	0.0	270	0.00
	Tamil Nadu	15625	0	328.6	105.5	-6.4	793	0.00
	Puducherry	395	0	9.2	9.1	-0.6	27	0.00
ER	Bihar	7420	174	159.8	150.6	-2.3	599	6.00
	DVC	3574	0	76.7	-33.5	0.7	463	0.00
	Jharkhand	2306	0	47.4	33.6	1.5	325	0.42
	Odisha	5739	0	119.6	38.9	-2.0	349	0.00
	West Bengal	11523	0	241.1	100.8	-1.1	267	0.00
	Sikkim	90	0	1.4	1.2	0.3	46	0.00
Railways ER ISTS	16	0	0.2	0.2	0.0	7	0.00	
NER	Arunachal Pradesh	167	0	3.3	2.8	0.0	18	0.00
	Assam	2442	0	48.6	41.8	-0.8	159	0.00
	Manipur	190	0	3.4	3.0	0.4	51	0.00
	Meghalaya	310	0	5.5	-0.8	-0.1	29	0.00
	Mizoram	117	0	2.0	0.7	-0.1	8	0.00
	Nagaland	177	0	3.0	2.8	-0.3	26	0.00
Tripura	340	0	6.2	5.7	-0.2	71	0.00	

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

	Bhutan	Nepal	Bangladesh	Godda -> Bangladesh
Actual (MU)	43.3	15.5	-24.4	-25.6
Day Peak (MW)	2012.0	809.7	-1037.0	-1317.4

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	428.8	-259.5	-125.3	-51.1	7.1	0.0
Actual(MU)	438.7	-264.9	-139.2	-48.4	6.8	-7.1
O/D/U/D(MU)	9.9	-5.4	-14.0	2.8	-0.4	-7.1

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL	% Share
Central Sector	3127	12904	6788	5376	630	28825	55
State Sector	4501	8741	8963	1574	172	23951	45
Total	7628	21645	15751	6950	802	52775	100

G. Sourcewise generation (Gross) (MU)

	NR	WR	SR	ER	NER	All India	% Share
Coal	872	1416	542	679	15	3523	66
Lignite	33	13	45	0	0	91	2
Hydro	391	51	112	77	36	666	12
Nuclear	30	62	76	0	0	167	3
Gas, Naptha & Diesel	32	44	5	0	21	102	2
RES (Wind, Solar, Biomass & Others)	172	195	420	4	1	792	15
Total	1529	1781	1199	760	73	5342	100

Share of RES in total generation (%)	11.24	10.95	35.00	0.58	1.68	14.83
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	38.76	17.29	50.60	10.71	50.52	30.43

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.040
Based on State Max Demands	1.087

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

	Max Demand Met(MW)	Time	Shortage(MW)
Solar hr	215795	14:51	0
Non-Solar hr	214174	19:55	713

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: 20-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	10.5	-10.5
2	HVDC	PUSAULI B/B	-	0	97	0.0	2.3	-2.3
3	765 kV	GAYA-VARANASI	2	856	600	0.0	2.3	-2.3
4	765 kV	SASARAM-FATEHPUR	1	361	273	0.0	4.4	-4.4
5	765 kV	GAYA-BALIA	1	0	766	0.0	12.3	-12.3
6	400 kV	PUSAULI-VARANASI	1	0	117	0.0	1.2	-1.2
7	400 kV	PUSAULI-ALLAHABAD	1	24	80	0.0	1.2	-1.2
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	71	652	0.0	8.1	-8.1
9	400 kV	PATNA-BALIA	2	407	424	0.0	4.1	-4.1
10	400 kV	NAUBATPUR-BALIA	2	202	215	0.0	0.3	-0.3
11	400 kV	BIHARSHARIFF-BALIA	2	412	53	2.3	0.0	2.3
12	400 kV	MOTIHARI-GORAKHPUR	2	128	367	0.0	4.4	-4.4
13	400 kV	BIHARSHARIFF-VARANASI	2	0	0	0.0	0.0	0.0
14	220 kV	SAHUPURI-KARAMNANA	1	77	58	0.0	0.1	-0.1
15	132 kV	NAGAR UNTARI-RIHAND	1	0	0	0.0	0.0	0.0
16	132 kV	GARWAH-RIHAND	1	30	0	0.7	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						3.0	51.1	-48.1
Import/Export of ER (With WR)								
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	0	1817	0.0	23.7	-23.7
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	2168	0	36.9	0.0	36.9
3	765 kV	JHARSUGUDA-DURG	2	197	448	0.0	1.6	-1.6
4	400 kV	JHARSUGUDA-RAIGARH	4	87	499	0.0	4.5	-4.5
5	400 kV	RANCHI-SIPAT	2	530	0	7.5	0.0	7.5
6	220 kV	BUDHIPADAR-RAIGARH	1	20	82	0.0	0.7	-0.7
7	220 kV	BUDHIPADAR-KORBA	2	0	112	0.0	1.6	-1.6
ER-WR						44.3	32.1	12.2
Import/Export of ER (With SR)								
1	HVDC	JEYPORE-GAZUWAKA B/B	2	702	0	12.3	0.0	12.3
2	HVDC	TALCHER-KOLAR BIPOLE	2	0	410	0.0	9.8	-9.8
3	765 kV	ANGUL-SRIKAKULAM	2	0	1840	0.0	22.1	-22.1
4	400 kV	TALCHER-I/C	2	996	0	20.3	0.0	20.3
5	220 kV	BALIMELA-UPPER-SILERRU	1	0	0	0.0	0.0	0.0
ER-SR						12.3	31.9	-19.6
Import/Export of ER (With NER)								
1	400 kV	BINAGURI-BONGAIGAON	2	0	435	0.0	6.3	-6.3
2	400 kV	ALIPURDUAR-BONGAIGAON	2	0	764	0.0	11.6	-11.6
3	220 kV	ALIPURDUAR-SALAKATI	2	0	151	0.0	2.5	-2.5
ER-NER						0.0	20.3	-20.3
Import/Export of NER (With NR)								
1	HVDC	BISWANATH CHARIALI-AGRA	2	0	704	0.0	14.6	-14.6
NER-NR						0.0	14.6	-14.6
Import/Export of WR (With NR)								
1	HVDC	CHAMPA-KIRUKSHETRA	2	0	5042	0.0	108.9	-108.9
2	HVDC	VINDHYACHAL B/B	-	0	260	5.2	0.0	5.2
3	HVDC	MUNDRA-MOHINDERGARH	2	0	2357	0.0	60.1	-60.1
4	765 kV	GWALIOR-AGRA	2	0	2875	0.0	46.8	-46.8
5	765 kV	GWALIOR-PHAGI	2	567	1743	1.8	22.5	-20.7
6	765 kV	JABALPUR-ORAI	2	0	1521	0.0	52.2	-52.2
7	765 kV	GWALIOR-ORAI	1	703	0	11.7	0.0	11.7
8	765 kV	SATNA-ORAI	1	0	1068	0.0	20.7	-20.7
9	765 kV	BANASKANTHA-CHITTOGARH	2	717	1290	3.4	10.9	-7.5
10	765 kV	VINDHYACHAL-VARANASI	2	0	3953	0.0	72.8	-72.8
11	400 kV	ZERDA-KANKROLI	1	193	219	1.0	1.9	-0.9
12	400 kV	ZERDA-BHINMAL	1	133	152	0.7	1.3	-0.6
13	400 kV	VINDHYACHAL-RIHAND	1	966	0	22.2	0.0	22.2
14	400 kV	RAPP-SHUJALPUR	2	297	709	1.1	7.3	-6.2
15	400 kV	NEEMUCH-Chittorgarh	2	297	728	1.0	7.5	-6.5
16	220 kV	BHANPURA-RANPUR	1	0	116	0.0	2.0	-2.0
17	220 kV	BHANPURA-MORAK	1	0	30	0.0	2.0	-2.0
18	220 kV	MEHGAON-AURAIYA	1	69	24	0.3	0.1	0.2
19	220 kV	MALANPUR-AURAIYA	1	40	41	0.2	0.3	-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						48.3	417.1	-368.8
Import/Export of WR (With SR)								
1	HVDC	BHADRAWATI B/B	-	998	0	18.9	0.0	18.9
2	HVDC	RAIGARH-PUGALUR	2	1260	0	18.4	0.0	18.4
3	765 kV	SOLAPUR-RAICHUR	2	2648	0	42.6	0.0	42.6
4	765 kV	WARDHA-NIZAMABAD	2	919	1468	5.2	7.7	-2.5
5	765 kV	WARORA-WARANGAL(NEW)	2	968	1378	6.3	6.2	0.1
6	400 kV	KOLHAPUR-KUDGI	2	2368	0	46.7	0.0	46.7
7	220 kV	KOLHAPUR-CHIKODI	2	0	0	0.0	0.0	0.0
8	220 kV	PONDA-AMBEWADI	1	0	99	1.0	0.0	1.0
9	220 kV	XELDEM-AMBEWADI	1	1	113	1.2	0.0	1.2
WR-SR						140.3	13.9	126.4

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)	754	690	741	17.79	
	ER	400kV TALA-BINAGURI 1,2,4 (& 400kV MALBASE - BINAGURI i.e. BINAGURI RECEIPT (from TALA HEP 6*170MW)	912	835	852	20.45	
	ER	220kV CHUKHA-BIRPARA 1&2 (& 220kV MALBASE - BIRPARA) i.e. BIRPARA RECEIPT (from CHUKHA HEP 4*84MW)	166	99	133	3.20	
	NER	132kV GELEPHU-SALAKATI	64	0	52	1.24	
	NER	132kV MOTANGA-RANGIA	65	0	25	0.60	
NEPAL	NR	NEPAL IMPORT (FROM UP)	0	0	0	0.00	
	NR	132kV MAHENDRANAGAR-TANAKPUR(NHPC)	0	0	0	0.97	
	ER	NEPAL IMPORT (FROM BIHAR)	0	0	0	0.00	
	ER	400kV DHALKEBAR-MUZAFFARPUR 1&2	744	518	606	14.55	
BANGLADESH	ER	BHERAMARA B/B HVDC (B'DESH)	-936	-863	-933	-22.40	
	ER (Isolated from Indian Grid)	400kV GODDA_TPS-RAHANPUR (B'DESH) D/C	-1317	-911	-1066	-25.59	
	NER	132kV COMILLA-SURAJMANI NAGAR 1&2	-101	0	-82	-1.96	

CROSS BORDER EXCHANGE SCHEDULE

Date of Reporting: 20-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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Bangladesh	22.31	0.00	0.00	0.00	0.00	0.00	0.00	0.00	22.31
Myanmar	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total Export	22.31	0.00	0.00	0.00	0.00	0.00	0.00	0.00	22.31

Import by India(in MU)

Country	GNA (ISGA/PPA)	T-GNA							TOTAL
		BILATERAL TOTAL	COLLECTIVE						
			IDAM			RTM			
			IEX	PXIL	HPX	IEX	PXIL	HPX	
Bhutan	38.28	0.00	1.49	0.00	0.00	0.00	0.00	0.00	39.77
Nepal	2.63	0.00	12.92	0.00	0.00	0.17	0.00	0.00	15.72
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	40.91	0.00	14.41	0.00	0.00	0.17	0.00	0.00	55.49

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	38.28	0.00	1.49	0.00	0.00	0.00	0.00	0.00	39.77
Nepal	2.63	0.00	12.92	0.00	0.00	0.17	0.00	0.00	15.72
Bangladesh	-22.31	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-22.31
Myanmar	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total Net	18.60	0.00	14.41	0.00	0.00	0.17	0.00	0.00	33.18