



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: 19.07.2024

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 18.07.2024.

महोदय/Dear Sir,

आईईजीसी-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 18-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 18.07.2024, is available at the NLDC website.

धन्यवाद,
Thanks

Report for previous day

Date of Reporting: 19-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)	79145	60582	42394	28512	3522	214155
Peak Shortage (MW)	75	0	0	667	0	742
Energy Met (MU)	1874	1386	1046	647	70	5023
Hydro Gen (MU)	390	50	106	79	35	660
Wind Gen (MU)	12	98	311	-	-	421
Solar Gen (MU)*	151.41	71.05	89.35	2.92	1.03	316
Energy Shortage (MU)	3.15	0.00	0.00	3.65	0.00	6.80
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	82990	60626	49228	30640	3580	218161
Time Of Maximum Demand Met	11:53	19:39	09:43	22:58	18:46	10:45

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	0.026	0.00	0.00	4.48	4.48	81.80	13.73

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	15802	0	359.8	213.5	0.1	355	0.00
	Haryana	13024	0	276.2	204.6	-2.8	200	0.00
	Rajasthan	15476	0	326.0	120.2	7.5	1206	2.54
	Delhi	7031	0	149.3	130.2	0.5	238	0.00
	UP	28541	0	609.0	304.1	-0.3	511	0.00
	Uttarakhand	2453	75	52.1	27.1	0.3	169	0.61
	HP	1817	0	38.6	1.2	0.0	91	0.00
	J&K(UT) & Ladakh(UT)	2618	0	51.0	30.4	-4.6	194	0.00
	Chandigarh	406	0	8.1	7.8	0.3	64	0.00
Railways NR ISTS	211	0	4.4	3.5	0.9	104	0.00	
WR	Chhattisgarh	5716	0	128.6	76.5	0.7	444	0.00
	Gujarat	18579	0	412.6	144.1	-2.2	541	0.00
	MP	12592	0	270.2	148.9	-1.5	688	0.00
	Maharashtra	22700	0	501.2	154.8	-6.0	550	0.00
	Goa	616	0	12.9	12.6	0.1	96	0.00
	DNHDDPDCL	1285	0	30.0	30.2	-0.2	35	0.00
	AMNSIL	858	0	17.7	4.5	0.2	291	0.00
	BALCO	528	0	12.6	12.5	0.1	36	0.00
SR	Andhra Pradesh	9181	0	199.3	13.7	-3.3	282	0.00
	Telangana	12281	0	240.9	150.8	-0.5	618	0.00
	Karnataka	10375	0	197.5	-16.9	-5.7	490	0.00
	Kerala	3639	0	72.8	40.9	0.2	343	0.00
	Tamil Nadu	15301	0	326.7	106.4	-10.2	1027	0.00
	Puducherry	402	0	9.1	9.0	-0.5	65	0.00
	Bihar	7421	747	161.0	145.9	3.4	656	3.48
ER	DVC	3455	0	74.7	-36.5	0.3	286	0.00
	Jharkhand	2222	0	45.2	31.7	1.3	453	0.18
	Odisha	5920	0	122.1	39.1	-2.1	421	0.00
	West Bengal	11645	0	242.5	98.5	0.1	380	0.00
	Sikkim	94	0	1.4	1.2	0.2	39	0.00
	Railways ER ISTS	15	0	0.1	0.2	0.0	8	0.00
	Arunachal Pradesh	149	0	2.9	2.6	-0.2	41	0.00
NER	Assam	2412	0	46.9	38.3	0.3	125	0.00
	Manipur	213	0	3.1	3.1	0.0	44	0.00
	Meghalaya	308	0	5.5	-0.5	0.0	94	0.00
	Mizoram	120	0	2.0	0.7	-0.1	63	0.00
	Nagaland	168	0	3.1	2.8	-0.2	14	0.00
	Tripura	339	0	6.7	5.9	0.5	76	0.00

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

	Bhutan	Nepal	Bangladesh	Godda -> Bangladesh
Actual (MU)	38.7	15.3	-24.5	-26.6
Day Peak (MW)	1952.0	723.3	-1039.0	-1153.1

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	454.4	-269.6	-104.3	-85.2	4.6	0.0
Actual(MU)	454.4	-261.3	-134.5	-70.7	4.3	-7.9
O/D/U/D(MU)	-0.1	8.3	-30.3	14.4	-0.3	-7.9

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL	% Share
Central Sector	3858	13339	6788	5376	630	29991	56
State Sector	4956	8634	8163	1574	172	23499	44
Total	8814	21973	14951	6950	802	53490	100

G. Sourcewise generation (Gross) (MU)

	NR	WR	SR	ER	NER	All India	% Share
Coal	871	1444	585	700	15	3616	67
Lignite	30	12	49	0	0	91	2
Hydro	390	50	106	79	35	660	12
Nuclear	30	61	76	0	0	166	3
Gas, Naptha & Diesel	29	42	5	0	21	97	2
RES (Wind, Solar, Biomass & Others)	171	170	426	4	1	772	14
Total	1520	1779	1247	783	72	5402	100

Share of RES in total generation (%)	11.24	9.57	34.13	0.55	1.41	14.29
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	38.84	15.77	48.76	10.58	49.97	29.58

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.040
Based on State Max Demands	1.081

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

	Max Demand Met(MW)	Time	Shortage(MW)
Solar hr	218161	10:45	0
Non-Solar hr	213332	19:43	195

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: 19-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	351	0.0	8.3	-8.3
2	HVDC	PUSAULI B/B	-	0	97	0.0	2.4	-2.4
3	765 kV	GAYA-VARANASI	2	594	771	0.0	7.5	-7.5
4	765 kV	SASARAM-FATEHPUR	1	246	325	0.0	3.4	-3.4
5	765 kV	GAYA-BALIA	1	0	758	0.0	14.0	-14.0
6	400 kV	PUSAULI-VARANASI	1	6	58	0.0	0.5	-0.5
7	400 kV	PUSAULI -ALLAHABAD	1	0	101	0.0	1.8	-1.8
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	0	779	0.0	11.7	-11.7
9	400 kV	PATNA-BALIA	2	182	662	0.0	9.3	-9.3
10	400 kV	NAUBATPUR-BALIA	2	129	187	0.0	2.0	-2.0
11	400 kV	BIHARSHARIFF-BALIA	2	344	100	0.5	0.0	0.5
12	400 kV	MOTIHARI-GORAKHPUR	2	21	444	0.0	6.9	-6.9
13	400 kV	BIHARSHARIFF-VARANASI	2	0	0	0.0	0.0	0.0
14	220 kV	SAHUPURI-KARAMNANA	1	103	99	0.0	0.6	-0.6
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-CHANDAULI	1	0	0	0.0	0.0	0.0
ER-NR						1.1	68.3	-67.3
Import/Export of ER (With WR)								
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	0	1778	0.0	21.6	-21.6
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	2588	0	43.5	0.0	43.5
3	765 kV	JHARSUGUDA-DURG	2	118	514	0.0	5.5	-5.5
4	400 kV	JHARSUGUDA-RAIGARH	4	254	345	0.0	2.1	-2.1
5	400 kV	RANCHI-SIPAT	2	636	0	8.5	0.0	8.5
6	220 kV	BUDHIPADAR-RAIGARH	1	9	135	0.0	1.7	-1.7
7	220 kV	BUDHIPADAR-KORBA	2	5	107	0.0	1.6	-1.6
ER-WR						52.0	32.5	19.5
Import/Export of ER (With SR)								
1	HVDC	JEYPORE-GAZUWAKA B/B	2	749	0	16.8	0.0	16.8
2	HVDC	TALCHER-KOLAR BIPOLE	2	0	1242	0.0	21.5	-21.5
3	765 kV	ANGUL-SRIKAKULAM	2	0	1954	0.0	25.7	-25.7
4	400 kV	TALCHER-I/C	2	1160	299	10.1	0.0	10.1
5	220 kV	BALIMELA-UPPER-SILERRU	1	0	0	0.0	0.0	0.0
ER-SR						16.8	47.2	-30.4
Import/Export of ER (With NER)								
1	400 kV	BINAGURI-BONGAIGAON	2	0	442	0.0	6.0	-6.0
2	400 kV	ALIPURDUAR-BONGAIGAON	2	0	778	0.0	10.9	-10.9
3	220 kV	ALIPURDUAR-SALAKATI	2	0	152	0.0	2.1	-2.1
ER-NER						0.0	18.9	-18.9
Import/Export of NER (With NR)								
1	HVDC	BISWANATH CHARIALI-AGRA	2	0	704	0.0	16.8	-16.8
NER-NR						0.0	16.8	-16.8
Import/Export of WR (With NR)								
1	HVDC	CHAMPA-KURUKSHETRA	2	0	5015	0.0	82.2	-82.2
2	HVDC	VINDHYACHAL B/B	-	242	258	3.9	2.2	1.7
3	HVDC	MUNDRA-MOHINDERGARH	2	0	2357	0.0	54.8	-54.8
4	765 kV	GWALIOR-AGRA	2	0	2991	0.0	53.8	-53.8
5	765 kV	GWALIOR-PHAGI	2	111	1878	0.1	26.1	-26.0
6	765 kV	JABALPUR-ORAI	2	0	1518	0.0	53.3	-53.3
7	765 kV	GWALIOR-ORAI	1	749	0	12.3	0.0	12.3
8	765 kV	SATNA-ORAI	1	0	1112	0.0	23.3	-23.3
9	765 kV	BANASKANTHA-CHITTOGARH	2	649	1393	2.4	13.0	-10.7
10	765 kV	VINDHYACHAL-VARANASI	2	0	4033	0.0	77.6	-77.6
11	400 kV	ZERDA-KANKROLI	1	125	239	0.4	2.4	-1.9
12	400 kV	ZERDA -BHINMAL	1	86	165	0.3	1.6	-1.3
13	400 kV	VINDHYACHAL -RIHAND	1	968	0	22.0	0.0	22.0
14	400 kV	RAPP-SHUJALPUR	2	59	695	0.1	9.0	-9.0
15	400 kV	NEEMUCH-Chittorgarh	2	105	806	0.1	9.7	-9.5
16	220 kV	BHANPURA-RANPUR	1	0	172	0.0	2.6	-2.6
17	220 kV	BHANPURA-MORAK	1	0	30	0.0	1.8	-1.8
18	220 kV	MEHGAON-AURAIYA	1	65	28	0.4	0.1	0.3
19	220 kV	MALANPUR-AURAIYA	1	35	40	0.1	0.3	-0.2
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						41.9	413.8	-371.8
Import/Export of WR (With SR)								
1	HVDC	BHADRAWATI B/B	-	999	0	23.2	0.0	23.2
2	HVDC	RAIGARH-PUGALUR	2	866	303	6.2	2.5	3.8
3	765 kV	SOLAPUR-RAICHUR	2	2874	0	51.3	0.0	51.3
4	765 kV	WARDHA-NIZAMABAD	2	843	1324	3.7	7.2	-3.5
5	765 kV	WARORA-WARANGAL(NEW)	2	970	1107	7.0	4.2	2.9
6	400 kV	KOLHAPUR-KUDGI	2	2525	0	50.5	0.0	50.5
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						144.0	13.8	130.3

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)	748	656	692	16.61
	ER	400kV TALA-BINAGURI 1,2,4 (& 400kV MALBASE - BINAGURI) i.e. BINAGURI RECEIPT (from TALA HEP 6*170MW)	907	825	835	20.04
	ER	220kV CHUKHA-BIRPARA 1&2 (& 220kV MALBASE - BIRPARA) i.e. BIRPARA RECEIPT (from CHUKHA HEP 4*84MW)	158	0	13	0.31
	NER	132kV GELEPHU-SALAKATI	62	0	50	1.20
	NER	132kV MOTANGA-RANGIA	59	0	24	0.57
NEPAL	NR	NEPAL IMPORT (FROM UP)	-29	0	0	0.00
	NR	132kV MAHENDRANAGAR-TANAKPUR(NHPC)	51	0	10	0.24
	ER	NEPAL IMPORT (FROM BIHAR)	0	0	0	0.00
	ER	400kV DHALKEBAR-MUZAFFARPUR 1&2	672	585	626	15.03
BANGLADESH	ER	BHERAMARA B/B HVDC (B'DESH)	-933	-862	-922	-22.13
	ER (Isolated from Indian Grid)	400kV GODDA_TPS-RAHANPUR (B'DESH) D/C	-1153	-998	-1110	-26.65
	NER	132kV COMILLA-SURAJMANI NAGAR 1&2	-106	0	-97	-2.32

CROSS BORDER EXCHANGE SCHEDULE

Date of Reporting: 19-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	0.09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.09
Bangladesh	22.13	0.00	0.00	0.00	0.00	0.00	0.00	0.00	22.13
Myanmar	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total Export	22.22	0.00	0.00	0.00	0.00	0.00	0.00	0.00	22.22

Import by India(in MU)

Country	GNA (ISGA/PPA)	T-GNA							TOTAL
		BILATERAL TOTAL	COLLECTIVE						
			IDAM			RTM			
			IEX	PXIL	HPX	IEX	PXIL	HPX	
Bhutan	38.08	0.00	1.49	0.00	0.00	0.00	0.00	0.00	39.57
Nepal	2.63	0.00	12.90	0.00	0.00	0.06	0.00	0.00	15.59
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	40.71	0.00	14.39	0.00	0.00	0.06	0.00	0.00	55.16

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	38.08	0.00	1.49	0.00	0.00	0.00	0.00	0.00	39.57
Nepal	2.54	0.00	12.90	0.00	0.00	0.06	0.00	0.00	15.50
Bangladesh	-22.13	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-22.13
Myanmar	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total Net	18.49	0.00	14.39	0.00	0.00	0.06	0.00	0.00	32.94