



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: 17.07.2024

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 16.07.2024.

महोदय/Dear Sir,

आईईजीसी-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 16-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 16.07.2024, is available at the NLDC website.

धन्यवाद,
Thanks

Report for previous day

Date of Reporting: 17-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)	80673	59448	43962	27750	3498	215331
Peak Shortage (MW)	1606	105	0	624	0	2335
Energy Met (MU)	1882	1393	1017	623	68	4982
Hydro Gen (MU)	380	40	100	73	36	629
Wind Gen (MU)	15	82	306	-	-	403
Solar Gen (MU)*	164.65	90.83	85.71	2.90	0.86	345
Energy Shortage (MU)	11.13	2.45	0.00	3.83	0.00	17.41
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	84969	60423	46378	29686	3486	217380
Time Of Maximum Demand Met	14:13	19:46	10:53	22:54	20:39	14:30

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	0.033	0.00	0.68	4.55	5.23	78.61	16.16

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	15863	0	358.4	217.5	-0.6	227	0.00
	Haryana	13597	0	289.0	212.4	-1.9	233	0.00
	Rajasthan	14855	0	317.3	112.5	4.7	1122	10.30
	Delhi	7375	0	150.4	138.2	0.3	228	0.00
	UP	28285	0	603.2	272.9	2.2	965	0.00
	Uttarakhand	2545	0	54.4	30.7	1.0	226	0.83
	HP	1858	0	40.2	3.6	-0.1	87	0.00
	J&K(UT) & Ladakh(UT)	2683	0	56.6	32.0	-1.0	250	0.00
	Chandigarh	394	0	8.2	8.1	0.1	29	0.00
Railways NR ISTS	206	0	4.3	3.6	0.7	101	0.00	
WR	Chhattisgarh	5447	53	124.7	75.7	-0.1	288	1.00
	Gujarat	18507	0	409.4	152.7	-0.7	1286	0.00
	MP	12033	0	268.1	149.3	-0.9	536	1.45
	Maharashtra	22807	0	514.7	164.5	0.5	670	0.00
	Goa	629	0	14.8	12.3	2.3	74	0.00
	DNHDDPDCL	1288	0	29.8	30.0	-0.2	30	0.00
	AMNSIL	826	0	18.5	7.8	0.0	246	0.00
	BALCO	525	0	12.5	12.6	-0.1	4	0.00
SR	Andhra Pradesh	8836	0	195.6	19.4	-4.3	305	0.00
	Telangana	11200	0	226.8	142.5	-1.2	633	0.00
	Karnataka	10281	0	196.8	-11.5	-4.5	927	0.00
	Kerala	3624	0	68.8	42.7	0.7	604	0.00
	Tamil Nadu	15621	0	319.0	111.7	-10.5	948	0.00
	Puducherry	436	0	10.0	9.5	-0.1	39	0.00
ER	Bihar	7043	400	152.0	139.3	1.1	429	2.72
	DVC	3402	0	73.9	-38.2	-1.0	355	0.00
	Jharkhand	2191	0	44.3	31.8	0.3	245	1.11
	Odisha	5821	0	119.9	38.5	-0.5	554	0.00
	West Bengal	10998	0	231.7	93.0	-1.5	254	0.00
	Sikkim	86	0	1.4	1.3	0.1	46	0.00
Railways ER ISTS	17	0	0.1	0.1	0.0	1	0.00	
NER	Arunachal Pradesh	171	0	3.0	2.6	0.0	31	0.00
	Assam	2322	0	44.4	36.4	0.7	222	0.00
	Manipur	197	0	3.0	2.9	0.2	31	0.00
	Meghalaya	311	0	5.6	-0.8	-0.1	88	0.00
	Mizoram	120	0	1.8	0.7	-0.4	11	0.00
	Nagaland	174	0	3.1	2.7	0.0	25	0.00
Tripura	359	0	6.7	5.7	0.7	111	0.00	

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

	Bhutan	Nepal	Bangladesh	Godda -> Bangladesh
Actual (MU)	39.1	16.0	-24.4	-27.3
Day Peak (MW)	1932.7	861.5	-1030.0	-1151.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	445.5	-266.7	-90.5	-91.4	3.0	0.0
Actual(MU)	449.1	-265.6	-109.2	-86.9	2.3	-10.2
O/D/U/D(MU)	3.6	1.1	-18.8	4.6	-0.7	-10.2

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL	% Share
Central Sector	3650	11360	6438	4876	690	27014	52
State Sector	4816	10089	8003	1324	216	24447	48
Total	8465	21449	14441	6200	906	51461	100

G. Sourcewise generation (Gross) (MU)

	NR	WR	SR	ER	NER	All India	% Share
Coal	890	1479	555	698	15	3636	68
Lignite	30	15	46	0	0	91	2
Hydro	380	40	100	73	36	629	12
Nuclear	29	56	76	0	0	162	3
Gas, Naptha & Diesel	20	38	5	0	20	83	2
RES (Wind, Solar, Biomass & Others)	186	176	415	5	1	783	15
Total	1536	1804	1196	776	71	5383	100

Share of RES in total generation (%)	12.14	9.74	34.67	0.64	1.21	14.54
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	38.80	15.09	49.35	10.05	51.45	29.22

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.034
Based on State Max Demands	1.071

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

	Max Demand Met(MW)	Time	Shortage(MW)
Solar hr	217380	14:30	124
Non-Solar hr	216597	19:46	347

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: 17-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	352	0.0	9.1	-9.1
2	HVDC	PUSAULI B/B	-	2	97	0.0	2.1	-2.1
3	765 kV	GAYA-VARANASI	2	806	590	0.0	3.2	-3.2
4	765 kV	SASARAM-FATEHPUR	1	232	298	0.0	3.7	-3.7
5	765 kV	GAYA-BALIA	1	0	728	0.0	12.4	-12.4
6	400 kV	PUSAULI-VARANASI	1	0	93	0.0	1.1	-1.1
7	400 kV	PUSAULI-ALLAHABAD	1	57	85	0.0	0.9	-0.9
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	0	767	0.0	10.7	-10.7
9	400 kV	PATNA-BALIA	2	149	651	0.0	9.2	-9.2
10	400 kV	NAUBATPUR-BALIA	2	104	183	0.0	2.3	-2.3
11	400 kV	BIHARSHARIFF-BALIA	2	305	111	1.1	0.0	1.1
12	400 kV	MOTIHARI-GORAKHPUR	2	2	441	0.0	7.0	-7.0
13	400 kV	BIHARSHARIFF-VARANASI	2	167	234	0.0	0.0	0.0
14	220 kV	SAHUPURI-KARAMNANA	1	42	34	0.0	0.2	-0.2
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-CHANDAULI	1	0	0	0.0	0.0	0.0
ER-NR						1.6	61.8	-60.3
Import/Export of ER (With WR)								
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	0	1795	0.0	28.2	-28.2
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	2804	0	44.9	0.0	44.9
3	765 kV	JHARSUGUDA-DURG	2	0	582	0.0	7.8	-7.8
4	400 kV	JHARSUGUDA-RAIGARH	4	309	284	0.0	0.2	-0.2
5	400 kV	RANCHI-SIPAT	2	728	0	10.4	0.0	10.4
6	220 kV	BUDHIPADAR-RAIGARH	1	0	174	0.0	2.9	-2.9
7	220 kV	BUDHIPADAR-KORBA	2	0	125	0.0	1.7	-1.7
ER-WR						55.2	40.8	14.5
Import/Export of ER (With SR)								
1	HVDC	JEYPORE-GAZUWAKA B/B	2	752	0	17.9	0.0	17.9
2	HVDC	TALCHER-KOLAR BIPOLE	2	0	1992	0.0	39.9	-39.9
3	765 kV	ANGUL-SRIKAKULAM	2	0	2075	0.0	29.2	-29.2
4	400 kV	TALCHER-I/C	2	167	1233	0.0	9.6	-9.6
5	220 kV	BALIMELA-UPPER-SILERRU	1	0	0	0.0	0.0	0.0
ER-SR						17.9	69.1	-51.2
Import/Export of ER (With NER)								
1	400 kV	BINAGURI-BONGAIGAON	2	0	425	0.0	5.6	-5.6
2	400 kV	ALIPURDUAR-BONGAIGAON	2	0	689	0.0	10.0	-10.0
3	220 kV	ALIPURDUAR-SALAKATI	2	0	140	0.0	2.1	-2.1
ER-NER						0.0	17.8	-17.8
Import/Export of NER (With NR)								
1	HVDC	BISWANATH CHARIALI-AGRA	2	0	704	0.0	16.9	-16.9
NER-NR						0.0	16.9	-16.9
Import/Export of WR (With NR)								
1	HVDC	CHAMPA-KURUKSHETRA	2	0	5041	0.0	111.0	-111.0
2	HVDC	VINDHYACHAL B/B	-	243	0	6.1	0.0	6.1
3	HVDC	MUNDRA-MOHINDERGARH	2	0	2357	0.0	60.4	-60.4
4	765 kV	GWALIOR-AGRA	2	0	2867	0.0	50.1	-50.1
5	765 kV	GWALIOR-PHAGI	2	310	1825	0.6	25.6	-25.0
6	765 kV	JABALPUR-ORAI	2	0	1489	0.0	47.0	-47.0
7	765 kV	GWALIOR-ORAI	1	766	0	12.8	0.0	12.8
8	765 kV	SATNA-ORAI	1	0	1116	0.0	22.4	-22.4
9	765 kV	BANASKANTHA-CHITTOGARH	2	695	1158	3.3	11.5	-8.1
10	765 kV	VINDHYACHAL-VARANASI	2	0	3993	0.0	73.7	-73.7
11	400 kV	ZERDA-KANKROLI	1	152	235	0.9	2.2	-1.2
12	400 kV	ZERDA -BHINMAL	1	105	163	0.6	1.4	-0.8
13	400 kV	VINDHYACHAL -RIHAND	1	972	0	22.0	0.0	22.0
14	400 kV	RAPP-SHUJALPUR	2	113	654	0.3	7.8	-7.5
15	400 kV	NEEMUCH-Chittorgarh	2	126	649	0.3	7.1	-6.8
16	220 kV	BHANPURA-RANPUR	1	0	182	0.0	3.5	-3.5
17	220 kV	BHANPURA-MORAK	1	0	30	0.0	2.3	-2.3
18	220 kV	MEHGAON-AURAIYA	1	70	23	0.6	0.0	0.5
19	220 kV	MALANPUR-AURAIYA	1	41	40	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						47.7	426.1	-378.4
Import/Export of WR (With SR)								
1	HVDC	BHADRAWATI B/B	-	998	0	24.0	0.0	24.0
2	HVDC	RAIGARH-PUGALUR	2	1163	701	15.1	3.2	11.9
3	765 kV	SOLAPUR-RAICHUR	2	3009	0	48.7	0.0	48.7
4	765 kV	WARDHA-NIZAMABAD	2	521	1544	2.2	9.1	-6.9
5	765 kV	WARORA-WARANGAL(NEW)	2	766	1353	4.8	6.7	-1.9
6	400 kV	KOLHAPUR-KUDGI	2	2588	0	49.6	0.0	49.6
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	113	1.9	0.0	1.9
WR-SR						146.3	19.0	127.3

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 MANGDECHU HEP 4*180MW)	721	528	597	14.33	
	ER	400kV TALA-BINAGURI 1,2,4 (& 400kV MALBASE - BINAGURI i.e. BINAGURI RECEIPT (from TALA HEP 6*170MW)	904	616	831	19.95	
	ER	220kV CHUKHA-BIRPARA 1&2 (& 220kV MALBASE - BIRPARA) i.e. BIRPARA RECEIPT (from CHUKHA HEP 4*84MW)	153	44	117	2.82	
	NER	132kV GELEPHU-SALAKATI	40	23	33	0.79	
	NER	132kV MOTANGA-RANGIA	66	10	48	1.16	
NEPAL	NR	NEPAL IMPORT (FROM UP)	0	0	0	0.00	
	NR	132kV MAHENDRANAGAR-TANAKPUR(NHPC)	67	0	42	1.00	
	ER	NEPAL IMPORT (FROM BIHAR)	0	0	0	0.00	
	ER	400kV DHALKEBAR-MUZAFFARPUR 1&2	794	560	624	14.97	
BANGLADESH	ER	BHERAMARA B/B HVDC (B'DESH)	-929	-859	-929	-22.30	
	ER (Isolated from Indian Grid)	400kV GODDA_TPS-RAHANPUR (B'DESH) D/C	-1151	-1122	-1137	-27.30	
	NER	132kV COMILLA-SURAJMANI NAGAR 1&2	-101	0	-87	-2.09	

CROSS BORDER EXCHANGE SCHEDULE

Date of Reporting: 17-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	22.35	0.00	0.00	0.00	0.00	0.00	0.00	0.00	22.35
Myanmar	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total Export	22.35	0.00	0.00	0.00	0.00	0.00	0.00	0.00	22.35

Import by India(in MU)

Country	GNA (ISGA/PPA)	T-GNA							TOTAL
		BILATERAL TOTAL	COLLECTIVE						
			IDAM			RTM			
		IEX	PXIL	HPX	IEX	PXIL	HPX		
Bhutan	34.74	0.00	1.46	0.00	0.00	0.00	0.00	0.00	36.20
Nepal	2.63	0.00	13.18	0.00	0.00	0.06	0.00	0.00	15.87
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	37.37	0.00	14.64	0.00	0.00	0.06	0.00	0.00	52.07

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	34.74	0.00	1.46	0.00	0.00	0.00	0.00	0.00	36.20
Nepal	2.63	0.00	13.18	0.00	0.00	0.06	0.00	0.00	15.87
Bangladesh	-22.35	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-22.35
Myanmar	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total Net	15.02	0.00	14.64	0.00	0.00	0.06	0.00	0.00	29.72