



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: 10.07.2024

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 09.07.2024.

महोदय/Dear Sir,

आईईजीसी-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 09-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 09.07.2024, is available at the NLDC website.

धन्यवाद,
Thanks

Report for previous day

Date of Reporting: 10-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)	72872	59340	46348	28616	3261	210437
Peak Shortage (MW)	1586	92	303	185	0	2166
Energy Met (MU)	1672	1390	1125	632	65	4883
Hydro Gen (MU)	384	25	76	75	41	601
Wind Gen (MU)	5	66	187	-	-	259
Solar Gen (MU)*	161.52	73.65	101.55	3.59	0.84	341
Energy Shortage (MU)	8.04	0.79	1.07	0.42	0.00	10.32
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	75077	60025	52184	30238	3255	214980
Time Of Maximum Demand Met	11:48	19:35	10:54	22:55	20:02	11:51

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	0.049	0.25	1.13	10.53	11.92	74.46	13.62

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	15338	0	322.2	190.5	-0.9	329	0.00
	Haryana	11702	0	255.6	193.3	-1.6	187	0.00
	Rajasthan	13551	0	295.4	112.6	0.9	462	6.98
	Delhi	5968	0	125.7	114.6	-1.0	142	0.00
	UP	25705	0	523.0	240.0	-0.2	375	0.00
	Uttarakhand	2249	0	46.3	21.4	1.8	221	0.88
	HP	1842	0	39.4	-0.3	0.0	128	0.00
	J&K(UT) & Ladakh(UT)	2553	90	52.1	31.1	-5.2	129	0.18
	Chandigarh	397	0	7.7	7.2	0.4	47	0.00
Railways NR ISTS	218	0	4.5	3.8	0.7	74	0.00	
WR	Chhattisgarh	5672	0	131.0	81.8	1.0	490	0.79
	Gujarat	18983	0	419.0	173.6	-5.4	620	0.00
	MP	11606	0	254.1	135.2	-2.8	766	0.00
	Maharashtra	23236	0	514.0	158.7	-1.7	640	0.00
	Goa	631	0	12.6	12.6	-0.3	48	0.00
	DNHDDPDCL	1331	0	30.5	30.8	-0.3	42	0.00
	AMNSIL	752	0	16.3	6.5	-0.3	238	0.00
	BALCO	525	0	12.5	12.6	-0.1	18	0.00
SR	Andhra Pradesh	9832	0	208.5	47.4	-1.7	463	0.00
	Telangana	11427	0	229.2	130.2	1.9	856	0.00
	Karnataka	12314	0	227.9	46.5	-1.7	668	0.00
	Kerala	3890	120	76.4	43.7	2.8	522	0.88
	Tamil Nadu	17216	0	372.5	147.2	3.7	1328	0.00
	Puducherry	445	32	10.0	9.3	0.1	62	0.19
ER	Bihar	7052	0	143.6	134.5	-1.2	406	0.23
	DVC	3387	0	73.4	-38.3	-0.8	265	0.00
	Jharkhand	2351	0	46.1	34.7	-0.9	216	0.19
	Odisha	6190	0	134.0	48.4	-0.9	433	0.00
	West Bengal	11422	0	232.9	86.0	1.2	722	0.00
	Sikkim	89	0	1.5	1.4	0.1	35	0.00
Railways ER ISTS	17	0	0.1	0.2	-0.1	1	0.00	
NER	Arunachal Pradesh	133	0	2.3	2.5	-0.7	23	0.00
	Assam	2138	0	42.6	34.2	0.8	133	0.00
	Manipur	183	0	2.8	2.8	0.0	22	0.00
	Meghalaya	329	0	6.0	-0.6	-0.2	83	0.00
	Mizoram	128	0	1.8	0.8	-0.5	46	0.00
	Nagaland	163	0	3.1	3.0	-0.1	18	0.00
Tripura	319	0	6.1	5.4	-0.2	42	0.00	

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

	Bhutan	Nepal	Bangladesh	Godda -> Bangladesh
Actual (MU)	38.9	15.3	-24.4	-33.6
Day Peak (MW)	1844.1	757.9	-1036.0	-1526.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	332.9	-260.2	13.0	-79.2	-6.5	0.0
Actual(MU)	310.6	-260.0	29.9	-80.6	-9.8	-10.0
O/D/U/D(MU)	-22.3	0.2	17.0	-1.5	-3.3	-10.0

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL	% Share
Central Sector	3504	11564	6138	5041	668	26914	54
State Sector	6781	9280	5993	1114	119	23287	46
Total	10284	20844	12131	6155	787	50201	100

G. Sourcewise generation (Gross) (MU)

	NR	WR	SR	ER	NER	All India	% Share
Coal	819	1519	661	702	16	3716	71
Lignite	30	17	49	0	0	96	2
Hydro	384	25	76	75	41	601	11
Nuclear	30	47	54	0	0	131	2
Gas, Naptha & Diesel	16	30	5	0	22	73	1
RES (Wind, Solar, Biomass & Others)	174	141	319	5	1	641	12
Total	1453	1778	1163	782	81	5257	100

Share of RES in total generation (%)	12.01	7.91	27.46	0.69	1.06	12.19
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	40.47	11.96	38.60	10.30	52.43	26.11

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.026
Based on State Max Demands	1.075

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

	Max Demand Met(MW)	Time	Shortage(MW)
Solar hr	214980	11:51	0
Non-Solar hr	211083	19:45	676

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: 10-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	7.6	-7.6
2	HVDC	PUSAULI B/B	-	0	95	0.0	2.4	-2.4
3	765 kV	GAYA-VARANASI	2	360	596	0.0	4.7	-4.7
4	765 kV	SASARAM-FATEHPUR	1	50	345	0.0	4.0	-4.0
5	765 kV	GAYA-BALIA	1	0	566	0.0	7.9	-7.9
6	400 kV	PUSAULI-VARANASI	1	0	121	0.0	1.7	-1.7
7	400 kV	PUSAULI-ALLAHABAD	1	26	59	0.0	0.5	-0.5
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	0	773	0.0	13.0	-13.0
9	400 kV	PATNA-BALIA	2	0	426	0.0	8.7	-8.7
10	400 kV	NAUBATPUR-BALIA	2	55	435	0.0	2.0	-2.0
11	400 kV	BIHARSHARIFF-BALIA	2	260	57	2.2	0.0	2.2
12	400 kV	MOTIHARI-GORAKHPUR	2	0	403	0.0	6.6	-6.6
13	400 kV	BIHARSHARIFF-VARANASI	2	204	216	0.0	0.0	0.0
14	220 kV	SAHUPURI-KARAMNANA	1	22	49	0.0	0.3	-0.3
15	132 kV	NAGAR UNTARI-RIHAND	1	0	0	0.1	0.0	0.1
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						2.9	59.3	-56.3
Import/Export of ER (With WR)								
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	850	714	2.0	0.0	2.0
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	2168	0	35.3	0.0	35.3
3	765 kV	JHARSUGUDA-DURG	2	0	269	0.0	3.2	-3.2
4	400 kV	JHARSUGUDA-RAIGARH	4	167	346	0.0	2.0	-2.0
5	400 kV	RANCHI-SIPAT	2	530	0	6.0	0.0	6.0
6	220 kV	BUDHIPADAR-RAIGARH	1	0	174	0.0	3.0	-3.0
7	220 kV	BUDHIPADAR-KORBA	2	0	165	0.0	2.7	-2.7
ER-WR						43.3	10.9	32.5
Import/Export of ER (With SR)								
1	HVDC	JEYPORE-GAZUWAKA B/B	2	0	114	0.0	2.6	-2.6
2	HVDC	TALCHER-KOLAR BIPOLE	2	0	1990	0.0	48.2	-48.2
3	765 kV	ANGUL-SRIKAKULAM	2	0	1994	0.0	29.4	-29.4
4	400 kV	TALCHER-I/C	2	0	858	0.0	17.9	-17.9
5	220 kV	BALIMELA-UPPER-SILERRU	1	0	0	0.0	0.0	0.0
ER-SR						0.0	80.2	-80.2
Import/Export of ER (With NER)								
1	400 kV	BINAGURI-BONGAIGAON	2	121	186	0.0	1.4	-1.4
2	400 kV	ALIPURDUAR-BONGAIGAON	2	102	326	0.0	3.2	-3.2
3	220 kV	ALIPURDUAR-SALAKATI	2	0	91	0.0	1.2	-1.2
ER-NER						0.0	5.9	-5.9
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	3006	0.0	51.0	-51.0
2	HVDC	VINDHYACHAL B/B	-	250	108	2.7	1.1	1.6
3	HVDC	MUNDRA-MOHINDERGARH	2	0	1910	0.0	48.3	-48.3
4	765 kV	GWALIOR-AGRA	2	0	2284	0.0	35.6	-35.6
5	765 kV	GWALIOR-PHAGI	2	203	1761	0.3	26.4	-26.2
6	765 kV	JABALPUR-ORAI	2	0	1253	0.0	39.6	-39.6
7	765 kV	GWALIOR-ORAI	1	750	0	12.7	0.0	12.7
8	765 kV	SATNA-ORAI	1	0	1050	0.0	21.2	-21.2
9	765 kV	BANASKANTHA-CHITTOGARH	2	1414	537	10.0	2.1	8.0
10	765 kV	VINDHYACHAL-VARANASI	2	0	3278	0.0	57.2	-57.2
11	400 kV	ZERDA-KANKROLI	1	275	95	2.1	0.4	1.6
12	400 kV	ZERDA -BHINMAL	1	190	65	1.4	0.3	1.1
13	400 kV	VINDHYACHAL -RIHAND	1	974	0	21.4	0.0	21.4
14	400 kV	RAPP-SHUJALPUR	2	251	513	1.0	5.5	-4.5
15	400 kV	NEEMUCH-Chittorgarh	2	335	546	1.5	5.1	-3.6
16	220 kV	BHANPURA-RANPUR	1	0	136	0.0	2.6	-2.6
17	220 kV	BHANPURA-MORAK	1	0	30	0.0	2.0	-2.0
18	220 kV	MEHGAON-AURAIYA	1	74	11	0.6	0.0	0.6
19	220 kV	MALANPUR-AURAIYA	1	51	27	0.2	0.1	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						53.8	298.6	-244.9
Import/Export of WR (With SR)								
1	HVDC	BHADRAWATI B/B	-	993	0	9.3	0.0	9.3
2	HVDC	RAIGARH-PUGALUR	2	0	1303	0.0	27.0	-27.0
3	765 kV	SOLAPUR-RAICHUR	2	1956	69	28.1	0.0	28.1
4	765 kV	WARDHA-NIZAMABAD	2	143	1818	0.1	15.3	-15.2
5	765 kV	WARORA-WARANGAL(NEW)	2	117	1765	0.1	14.9	-14.8
6	400 kV	KOLHAPUR-KUDGI	2	1770	0	35.1	0.0	35.1
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	111	2.1	0.0	2.1
WR-SR						74.7	57.2	17.5

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)	743	614	676	16.23	
	ER	400kV TALA-BINAGURI 1,2,4 (& 400kV MALBASE - BINAGURI i.e. BINAGURI RECEIPT (from TALA HEP 6*170MW)	903	828	841	20.19	
	ER	220kV CHUKHA-BIRPARA 1&2 (& 220kV MALBASE - BIRPARA) i.e. BIRPARA RECEIPT (from CHUKHA HEP 4*84MW)	76	17	47	1.12	
	NER	132kV GELEPHU-SALAKATI	38	0	4	0.10	
	NER	132kV MOTANGA-RANGIA	64	43	51	1.23	
NEPAL	NR	NEPAL IMPORT (FROM UP)	-26	0	0	0.00	
	NR	132kV MAHENDRANAGAR-TANAKPUR(NHPC)	69	0	24	0.57	
	ER	NEPAL IMPORT (FROM BIHAR)	0	0	0	0.00	
	ER	400kV DHALKEBAR-MUZAFFARPUR 1&2	689	394	614	14.74	
BANGLADESH	ER	BHERAMARA B/B HVDC (B'DESH)	-947	-867	-939	-22.52	
	ER (Isolated from Indian Grid)	400kV GODDA_TPS-RAHANPUR (B'DESH) D/C	-1526	-1258	-1400	-33.60	
	NER	132kV COMILLA-SURAJMANI NAGAR 1&2	89	0	-78	-1.88	

CROSS BORDER EXCHANGE SCHEDULE

Date of Reporting: 10-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	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.03
Bangladesh	22.46	0.00	0.00	0.00	0.00	0.00	0.00	0.00	22.46
Myanmar	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total Export	22.49	0.00	0.00	0.00	0.00	0.00	0.00	0.00	22.49

Import by India(in MU)

Country	GNA (ISGA/PPA)	T-GNA							TOTAL
		BILATERAL TOTAL	COLLECTIVE						
			IDAM			RTM			
			IEX	PXIL	HPX	IEX	PXIL	HPX	
Bhutan	35.64	0.00	1.21	0.00	0.00	0.06	0.00	0.00	36.91
Nepal	2.63	0.00	12.25	0.00	0.00	0.37	0.00	0.00	15.25
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	38.27	0.00	13.46	0.00	0.00	0.43	0.00	0.00	52.16

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	35.64	0.00	1.21	0.00	0.00	0.06	0.00	0.00	36.91
Nepal	2.60	0.00	12.25	0.00	0.00	0.37	0.00	0.00	15.22
Bangladesh	-22.46	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-22.46
Myanmar	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total Net	15.78	0.00	13.46	0.00	0.00	0.43	0.00	0.00	29.67