



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: 16.07.2024

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 15.07.2024.

महोदय/Dear Sir,

आईईजीसी-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 15-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 15.07.2024, is available at the NLDC website.

धन्यवाद,
Thanks

Report for previous day

Date of Reporting: 16-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)	78986	57404	42765	27176	2773	209104
Peak Shortage (MW)	1547	1323	0	607	0	3477
Energy Met (MU)	1806	1377	1019	620	65	4886
Hydro Gen (MU)	378	39	88	69	35	609
Wind Gen (MU)	13	69	246	-	-	328
Solar Gen (MU)*	164.61	66.42	69.17	2.60	0.89	304
Energy Shortage (MU)	8.94	6.82	0.00	2.74	0.00	18.50
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	80415	61682	48945	29452	3215	214557
Time Of Maximum Demand Met	14:47	10:22	10:17	23:07	18:51	14:50

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	0.041	0.00	0.47	8.48	8.96	71.82	19.22

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	15629	0	348.3	219.1	0.5	366	0.00
	Haryana	12809	0	279.3	206.1	-0.6	306	0.08
	Rajasthan	14195	0	304.8	98.5	3.3	593	6.46
	Delhi	6900	0	142.1	129.9	-0.1	190	0.00
	UP	28497	34	574.1	254.3	0.1	804	1.95
	Uttarakhand	2418	75	50.5	27.5	0.2	145	0.45
	HP	1850	0	39.3	4.2	0.5	132	0.00
	J&K(UT) & Ladakh(UT)	2706	0	55.5	31.2	-1.9	258	0.00
	Chandigarh	404	0	8.1	8.0	0.2	41	0.00
Railways_NR ISTS	211	0	4.3	3.7	0.6	88	0.00	
WR	Chhattisgarh	5324	0	122.4	71.0	1.2	559	1.31
	Gujarat	19991	0	422.7	169.0	-1.0	916	0.00
	MP	11995	0	259.8	136.3	0.4	845	5.51
	Maharashtra	23005	0	500.7	161.5	-5.6	749	0.00
	Goa	623	0	10.5	11.6	-1.2	74	0.00
	DNHDDPDCL	1285	0	29.4	29.8	-0.4	31	0.00
	AMNSIL	823	0	18.6	7.7	0.3	262	0.00
	BALCO	525	0	12.5	12.6	-0.1	6	0.00
SR	Andhra Pradesh	8658	0	191.4	31.4	0.3	595	0.00
	Telangana	11276	0	221.2	137.2	0.6	1003	0.00
	Karnataka	10699	0	199.1	6.8	-2.1	1270	0.00
	Kerala	3328	0	69.7	43.7	0.1	297	0.00
	Tamil Nadu	15446	0	327.6	133.4	-7.6	1133	0.00
	Puducherry	450	0	10.3	9.8	-0.1	49	0.00
ER	Bihar	6986	354	155.5	139.5	4.1	472	2.18
	DVC	3437	0	74.0	-40.6	-0.6	292	0.00
	Jharkhand	2191	0	43.4	31.8	-0.4	217	0.56
	Odisha	5612	0	116.1	41.8	-0.9	358	0.00
	West Bengal	10952	0	229.0	90.3	-2.2	259	0.00
	Sikkim	85	0	1.3	1.3	0.0	22	0.00
	Railways_ER ISTS	18	0	0.2	0.1	0.0	0	0.00
NER	Arunachal Pradesh	162	0	2.9	2.8	-0.3	23	0.00
	Assam	2173	0	42.5	35.0	0.3	451	0.00
	Manipur	200	0	3.1	3.0	0.0	27	0.00
	Meghalaya	319	0	5.5	-0.6	-0.1	57	0.00
	Mizoram	117	0	1.6	0.7	-0.5	19	0.00
	Nagaland	164	0	3.0	2.8	0.0	23	0.00
	Tripura	340	0	5.9	5.7	-0.4	77	0.00

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

	Bhutan	Nepal	Bangladesh	Godda -> Bangladesh
Actual (MU)	36.5	16.2	-24.2	-27.3
Day Peak (MW)	1725.5	717.5	-1028.0	-1149.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	401.6	-272.7	-44.4	-84.9	0.3	0.0
Actual(MU)	398.1	-259.2	-60.1	-88.0	-0.3	-9.4
O/D/U/D(MU)	-3.5	13.5	-15.8	-3.1	-0.6	-9.4

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL	% Share
Central Sector	3357	11960	6648	4876	821	27662	55
State Sector	4261	8877	8003	1324	222	22686	45
Total	7618	20837	14651	6200	1042	50348	100

G. Sourcewise generation (Gross) (MU)

	NR	WR	SR	ER	NER	All India	% Share
Coal	872	1510	601	702	16	3701	70
Lignite	29	15	47	0	0	92	2
Hydro	378	39	88	69	35	609	11
Nuclear	30	55	76	0	0	160	3
Gas, Naptha & Diesel	19	30	5	0	21	75	1
RES (Wind, Solar, Biomass & Others)	185	138	335	4	1	663	13
Total	1512	1787	1151	775	73	5299	100

Share of RES in total generation (%)	12.23	7.73	29.06	0.55	1.24	12.51
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	39.18	12.96	43.28	9.44	49.52	27.02

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.042
Based on State Max Demands	1.080

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

	Max Demand Met(MW)	Time	Shortage(MW)
Solar hr	214557	14:50	139
Non-Solar hr	211494	19:41	1707

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: 16-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	8.6	-8.6
2	HVDC	PUSAULI B/B	-	0	97	0.0	2.4	-2.4
3	765 kV	GAYA-VARANASI	2	535	535	0.0	3.6	-3.6
4	765 kV	SASARAM-FATEHPUR	1	187	293	0.0	2.1	-2.1
5	765 kV	GAYA-BALIA	1	0	706	0.0	11.5	-11.5
6	400 kV	PUSAULI-VARANASI	1	0	126	0.0	1.6	-1.6
7	400 kV	PUSAULI -ALLAHABAD	1	31	53	0.0	0.8	-0.8
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	0	705	0.0	11.0	-11.0
9	400 kV	PATNA-BALIA	2	37	613	0.0	9.4	-9.4
10	400 kV	NAUBATPUR-BALIA	2	64	308	0.0	2.2	-2.2
11	400 kV	BIHARSHARIFF-BALIA	2	295	82	1.5	0.0	1.5
12	400 kV	MOTTHARI-GORAKHPUR	2	2	410	0.0	5.1	-5.1
13	400 kV	BIHARSHARIFF-VARANASI	2	0	0	0.0	0.0	0.0
14	220 kV	SAHUPURI-KARAMNANA	1	52	22	0.6	0.0	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	0.5	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						2.6	58.3	-55.7
Import/Export of ER (With WR)								
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	23	1857	0.0	20.0	-20.0
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	2555	0	39.6	0.0	39.6
3	765 kV	JHARSUGUDA-DURG	2	0	590	0.0	7.5	-7.5
4	400 kV	JHARSUGUDA-RAIGARH	4	195	316	0.0	0.9	-0.9
5	400 kV	RANCHI-SIPAT	2	631	0	9.1	0.0	9.1
6	220 kV	BUDHIPADAR-RAIGARH	1	0	177	0.0	2.6	-2.6
7	220 kV	BUDHIPADAR-KORBA	2	0	123	0.0	1.9	-1.9
ER-WR						48.7	32.9	15.9
Import/Export of ER (With SR)								
1	HVDC	JEYPORE-GAZUWAKA B/B	2	750	0	17.8	0.0	17.8
2	HVDC	TALCHER-KOLAR BIPOLE	2	0	1988	0.0	48.2	-48.2
3	765 kV	ANGUL-SRIKAKULAM	2	0	2338	0.0	35.2	-35.2
4	400 kV	TALCHER-I/C	2	0	700	0.0	15.5	-15.5
5	220 kV	BALIMELA-UPPER-SILERRU	1	0	0	0.0	0.0	0.0
ER-SR						17.8	83.4	-65.6
Import/Export of ER (With NER)								
1	400 kV	BINAGURI-BONGAIGAON	2	1	365	0.0	4.7	-4.7
2	400 kV	ALIPURDUAR-BONGAIGAON	2	0	581	0.0	7.6	-7.6
3	220 kV	ALIPURDUAR-SALAKATI	2	0	114	0.0	1.5	-1.5
ER-NER						0.0	13.7	-13.7
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	4025	0.0	95.5	-95.5
2	HVDC	VINDHYACHAL B/B	-	243	259	3.6	2.5	1.1
3	HVDC	MUNDRA-MOHINDERGARH	2	0	2358	0.0	60.4	-60.4
4	765 kV	GWALIOR-AGRA	2	0	2797	0.0	42.9	-42.9
5	765 kV	GWALIOR-PHAGI	2	408	1753	0.7	24.6	-23.9
6	765 kV	JABALPUR-ORAI	2	0	1451	0.0	47.0	-47.0
7	765 kV	GWALIOR-ORAI	1	742	0	13.0	0.0	13.0
8	765 kV	SATNA-ORAI	1	0	1089	0.0	21.4	-21.4
9	765 kV	BANASKANTHA-CHITTOORGARH	2	1422	1054	8.6	6.2	2.4
10	765 kV	VINDHYACHAL-VARANASI	2	0	3983	0.0	67.4	-67.4
11	400 kV	ZERDA-KANKROLI	1	304	194	2.2	1.1	1.2
12	400 kV	ZERDA -BHINMAL	1	210	134	1.5	0.7	0.8
13	400 kV	VINDHYACHAL -RIHAND	1	976	0	21.6	0.0	21.6
14	400 kV	RAPP-SHUJALPUR	2	296	611	1.4	6.6	-5.2
15	400 kV	NEEMUCH-Chittorgarh	2	262	604	1.2	6.1	-4.9
16	220 kV	BHANPURA-RANPUR	1	0	180	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	87	26	0.9	0.0	0.9
19	220 kV	MALANPUR-AURAIYA	1	59	36	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						54.8	388.4	-333.6
Import/Export of WR (With SR)								
1	HVDC	BHADRAWATI B/B	-	999	0	24.0	0.0	24.0
2	HVDC	RAIGARH-PUGALUR	2	1347	0	17.1	0.0	17.1
3	765 kV	SOLAPUR-RAICHUR	2	2716	0	35.7	0.0	35.7
4	765 kV	WARDHA-NIZAMABAD	2	626	1876	1.6	17.9	-16.3
5	765 kV	WARORA-WARANGAL(NEW)	2	770	1797	2.8	15.6	-12.8
6	400 kV	KOLHAPUR-KUDGI	2	2101	0	41.1	0.0	41.1
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	89	1.4	0.0	1.4
WR-SR						123.7	33.5	90.2

INTERNATIONAL EXCHANGES					Import(+ve)/Export(-ve) Energy Exchange (MU)		
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)	541	503	529	12.69	
	ER	400kV TALA-BINAGURI 1,2,4 (& 400kV MALBASE - BINAGURI) i.e. BINAGURI RECEIPT (from TALA HEP 6*170MW)	889	825	831	19.96	
	ER	220kV CHUKHA-BIRPARA 1&2 (& 220kV MALBASE - BIRPARA) i.e. BIRPARA RECEIPT (from CHUKHA HEP 4*84MW)	127	22	79	1.89	
	NER	132kV GELEPHU-SALAKATI	36	21	28	0.66	
	NER	132kV MOTANGA-RANGIA	71	21	53	1.28	
NEPAL	NR	NEPAL IMPORT (FROM UP)	-14	0	0	0.00	
	NR	132kV MAHENDRANAGAR-TANAKPUR(NHPC)	66	0	48	1.15	
	ER	NEPAL IMPORT (FROM BIHAR)	0	0	0	0.00	
	ER	400kV DHALKEBAR-MUZAFFARPUR 1&2	651	555	626	15.03	
BANGLADESH	ER	BHERAMARA B/B HVDC (B'DESH)	-935	-859	-922	-22.14	
	ER (Isolated from Indian Grid)	400kV GODDA_TPS-RAHANPUR (B'DESH) D/C	-1149	-1088	-1136	-27.26	
	NER	132kV COMILLA-SURAJMANI NAGAR 1&2	-93	0	-86	-2.06	

CROSS BORDER EXCHANGE SCHEDULE

Date of Reporting: 16-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	0.37	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.37
Bangladesh	22.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	22.03
Myanmar	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total Export	22.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00	22.40

Import by India(in MU)

Country	GNA (ISGA/PPA)	T-GNA							TOTAL
		BILATERAL TOTAL	COLLECTIVE						
			IDAM			RTM			
			IEX	PXIL	HPX	IEX	PXIL	HPX	
Bhutan	32.00	0.00	1.46	0.00	0.00	0.00	0.00	0.00	33.46
Nepal	2.63	0.00	13.57	0.00	0.00	0.30	0.00	0.00	16.50
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	34.63	0.00	15.03	0.00	0.00	0.30	0.00	0.00	49.96

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	32.00	0.00	1.46	0.00	0.00	0.00	0.00	0.00	33.46
Nepal	2.26	0.00	13.57	0.00	0.00	0.30	0.00	0.00	16.13
Bangladesh	-22.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-22.03
Myanmar	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total Net	12.23	0.00	15.03	0.00	0.00	0.30	0.00	0.00	27.56