



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: 07.07.2024

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 06.07.2024.

महोदय/Dear Sir,

आईईजीसी-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 6-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 06.07.2024, is available at the NLDC website.

धन्यवाद,
Thanks

Report for previous day

Date of Reporting: 07-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)	65455	58803	44914	25746	3228	198146
Peak Shortage (MW)	0	0	0	0	0	0
Energy Met (MU)	1444	1350	1096	558	61	4509
Hydro Gen (MU)	354	23	62	69	42	549
Wind Gen (MU)	67	238	235	-	-	540
Solar Gen (MU)*	149.04	68.68	88.67	2.48	0.90	310
Energy Shortage (MU)	0.00	0.00	0.00	0.30	0.00	0.30
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	66270	59974	49872	27094	3256	198666
Time Of Maximum Demand Met	21:28	19:48	10:42	23:09	20:28	20:29

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	0.051	0.00	0.00	1.83	1.83	77.25	20.92

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	10548	0	226.8	142.2	-6.0	435	0.00
	Haryana	11328	0	244.2	182.8	-2.2	221	0.00
	Rajasthan	13142	0	279.7	61.7	-4.5	654	0.00
	Delhi	5947	0	123.8	113.9	-1.7	84	0.00
	UP	20667	0	432.2	214.7	0.0	886	0.00
	Uttarakhand	2042	0	46.5	23.9	-0.3	88	0.00
	HP	1639	0	35.0	-4.3	-0.6	62	0.00
	J&K(UT) & Ladakh(UT)	2378	0	44.9	28.4	-9.8	111	0.00
	Chandigarh	292	0	6.3	6.9	-0.6	0	0.00
Railways NR ISTS	201	0	4.3	3.9	0.4	33	0.00	
WR	Chhattisgarh	5532	0	119.7	78.6	-2.9	280	0.00
	Gujarat	18058	0	403.5	135.5	-7.1	395	0.00
	MP	10522	0	221.9	114.8	-3.1	441	0.00
	Maharashtra	23816	0	531.6	164.0	-6.1	749	0.00
	Goa	673	0	14.2	13.8	0.1	34	0.00
	DNHDDPDCL	1343	0	30.9	30.8	0.1	66	0.00
	AMNSIL	700	0	15.3	5.3	0.7	274	0.00
	BALCO	528	0	12.6	12.6	0.0	7	0.00
SR	Andhra Pradesh	9430	0	207.1	45.2	-0.8	785	0.00
	Telangana	10848	0	219.8	159.0	-1.2	337	0.00
	Karnataka	11882	0	224.2	36.7	-1.6	362	0.00
	Kerala	3762	0	77.4	48.2	1.8	604	0.00
	Tamil Nadu	16571	0	357.5	173.4	-2.9	840	0.00
	Puducherry	458	0	10.1	9.8	-0.4	25	0.00
ER	Bihar	6086	0	119.2	119.7	-6.1	274	0.30
	DVC	3506	0	73.6	-27.9	-0.3	428	0.00
	Jharkhand	2109	0	42.0	31.2	-1.8	154	0.00
	Odisha	5561	0	114.9	39.0	-0.9	453	0.00
	West Bengal	9886	0	207.3	77.0	-2.3	221	0.00
	Sikkim	74	0	1.2	1.3	-0.1	15	0.00
	Railways ER ISTS	20	0	0.1	0.2	-0.1	0	0.00
NER	Arunachal Pradesh	126	0	2.7	2.6	-0.6	0	0.00
	Assam	2152	0	39.9	32.1	0.2	220	0.00
	Manipur	172	0	2.7	3.0	-0.3	12	0.00
	Meghalaya	312	0	5.8	-0.4	-0.3	66	0.00
	Mizoram	120	0	2.0	0.7	-0.1	58	0.00
	Nagaland	167	0	3.1	2.9	0.0	17	0.00
	Tripura	310	0	5.4	4.9	-0.3	26	0.00

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

	Bhutan	Nepal	Bangladesh	Godda -> Bangladesh
Actual (MU)	34.3	8.0	-24.4	-16.8
Day Peak (MW)	1697.0	718.0	-1077.0	-755.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	238.8	-278.7	90.6	-45.0	-5.7	0.0
Actual(MU)	205.0	-272.0	112.8	-43.4	-9.1	-6.7
O/D/U/D(MU)	-33.8	6.7	22.2	1.6	-3.4	-6.7

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL	% Share
Central Sector	5091	13106	7388	5901	647	32132	55
State Sector	5876	10450	7858	1999	119	26302	45
Total	10967	23556	15246	7900	766	58434	100

G. Sourcewise generation (Gross) (MU)

	NR	WR	SR	ER	NER	All India	% Share
Coal	675	1323	520	600	12	3131	64
Lignite	30	16	50	0	0	97	2
Hydro	354	23	62	69	42	549	11
Nuclear	30	47	52	0	0	129	3
Gas, Naptha & Diesel	14	25	5	0	21	64	1
RES (Wind, Solar, Biomass & Others)	224	310	353	4	1	891	18
Total	1326	1744	1042	672	76	4860	100

Share of RES in total generation (%)	16.86	17.75	33.84	0.63	1.21	18.33
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	45.78	21.77	44.78	10.83	56.25	32.28

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.039
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	195402	14:49	0
Non-Solar hr	198666	20:29	0

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: 07-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	353	0.0	8.6	-8.6
2	HVDC	PUSAULI B/B	-	0	94	0.0	2.3	-2.3
3	765 kV	GAYA-VARANASI	2	1063	305	7.8	0.0	7.8
4	765 kV	SASARAM-FATEHPUR	1	356	243	0.4	0.0	0.4
5	765 kV	GAYA-BALIA	1	70	420	0.0	3.7	-3.7
6	400 kV	PUSAULI-VARANASI	1	0	119	0.0	1.7	-1.7
7	400 kV	PUSAULI-ALLAHABAD	1	25	71	0.0	0.5	-0.5
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	206	486	0.0	3.4	-3.4
9	400 kV	PATNA-BALIA	2	325	380	0.0	1.1	-1.1
10	400 kV	NAUBATPUR-BALIA	2	156	94	0.0	0.6	-0.6
11	400 kV	BIHARSHARIFF-BALIA	2	387	0	4.8	0.0	4.8
12	400 kV	MOTIHARI-GORAKHPUR	2	88	302	0.0	2.8	-2.8
13	400 kV	BIHARSHARIFF-VARANASI	2	0	0	0.0	0.0	0.0
14	220 kV	SAHUPURI-KARAMNANA	1	70	15	0.0	0.5	-0.5
15	132 kV	NAGAR UNTARI-RIHAND	1	0	0	0.0	0.0	0.0
16	132 kV	GARWAH-RIHAND	1	0	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						13.6	25.0	-11.5
Import/Export of ER (With WR)								
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	863	671	0.0	1.7	-1.7
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	2140	0	36.9	0.0	36.9
3	765 kV	JHARSUGUDA-DURG	2	14	351	0.0	4.2	-4.2
4	400 kV	JHARSUGUDA-RAIGARH	4	374	270	1.0	0.0	1.0
5	400 kV	RANCHI-SIPAT	2	583	0	9.2	0.0	9.2
6	220 kV	BUDHIPADAR-RAIGARH	1	0	194	0.0	3.5	-3.5
7	220 kV	BUDHIPADAR-KORBA	2	0	145	0.0	2.3	-2.3
ER-WR						47.1	11.7	35.5
Import/Export of ER (With SR)								
1	HVDC	JEYPORE-GAZUWAKA B/B	2	151	160	0.0	1.3	-1.3
2	HVDC	TALCHER-KOLAR BIPOLE	2	0	1991	0.0	48.1	-48.1
3	765 kV	ANGUL-SRIKAKULAM	2	0	2667	0.0	40.6	-40.6
4	400 kV	TALCHER-I/C	2	0	1242	0.0	20.5	-20.5
5	220 kV	BALIMELA-UPPER-SILERRU	1	0	0	0.0	0.0	0.0
ER-SR						0.0	90.0	-90.0
Import/Export of ER (With NER)								
1	400 kV	BINAGURI-BONGAIGAON	2	73	215	0.3	1.7	-1.5
2	400 kV	ALIPURDUAR-BONGAIGAON	2	37	394	0.0	3.9	-3.9
3	220 kV	ALIPURDUAR-SALAKATI	2	5	103	0.0	1.2	-1.2
ER-NER						0.3	6.8	-6.5
Import/Export of NER (With NR)								
1	HVDC	BISWANATH CHARIALI-AGRA	2	0	704	0.0	17.0	-17.0
NER-NR						0.0	17.0	-17.0
Import/Export of WR (With NR)								
1	HVDC	CHAMPA-KURUKSHETRA	2	0	1010	0.0	22.8	-22.8
2	HVDC	VINDHYACHAL B/B	-	445	0	1.2	0.0	1.2
3	HVDC	MUNDRA-MOHINDERGARH	2	0	2354	0.0	49.7	-49.7
4	765 kV	GWALIOR-AGRA	2	59	2241	0.0	28.7	-28.7
5	765 kV	GWALIOR-PHAGI	2	1568	1410	8.2	13.4	-5.2
6	765 kV	JABALPUR-ORAI	2	0	1078	0.0	24.1	-24.1
7	765 kV	GWALIOR-ORAI	1	465	271	6.4	1.0	5.4
8	765 kV	SATNA-ORAI	1	0	1061	0.0	17.6	-17.6
9	765 kV	BANASKANTHA-CHITTOGARH	2	448	1396	2.8	11.2	-8.5
10	765 kV	VINDHYACHAL-VARANASI	2	0	3115	0.0	57.0	-57.0
11	400 kV	ZERDA-KANKROLI	1	201	191	2.1	0.8	1.3
12	400 kV	ZERDA-BHINMAL	1	139	132	1.4	0.5	0.9
13	400 kV	VINDHYACHAL-RIHAND	1	960	0	19.5	0.0	19.5
14	400 kV	RAPP-SHUALPUR	2	564	381	4.5	2.2	2.3
15	400 kV	NEEMUCH-Chittorgarh	2	682	322	5.6	1.8	3.8
16	220 kV	BHANPURA-RANPUR	1	0	166	0.0	2.0	-2.0
17	220 kV	BHANPURA-MORAK	1	0	30	0.0	2.6	-2.6
18	220 kV	MEHGAON-AURAIYA	1	62	48	0.2	0.2	0.0
19	220 kV	MALANPUR-AURAIYA	1	44	53	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						51.9	235.8	-183.9
Import/Export of WR (With SR)								
1	HVDC	BHADRAWATI B/B	-	300	0	7.2	0.0	7.2
2	HVDC	RAIGARH-PUGALUR	2	0	3006	0.0	48.9	-48.9
3	765 kV	SOLAPUR-RAICHUR	2	1661	821	17.8	1.3	16.5
4	765 kV	WARDHA-NIZAMABAD	2	0	2699	0.0	32.4	-32.4
5	765 kV	WARORA-WARANGAL(NEW)	2	0	2678	0.0	31.2	-31.2
6	400 kV	KOLHAPUR-KUDGI	2	1881	0	34.4	0.0	34.4
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	2.1	0.0	2.1
WR-SR						61.5	113.9	-52.4

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)	729	0	641	15.38	
	ER	400kV TALA-BINAGURI 1,2,4 (& 400kV MALBASE - BINAGURI i.e. BINAGURI RECEIPT (from TALA HEP 6*170MW)	746	659	677	16.24	
	ER	220kV CHUKHA-BIRPARA 1&2 (& 220kV MALBASE - BIRPARA) i.e. BIRPARA RECEIPT (from CHUKHA HEP 4*84MW)	39	5	22	0.52	
	NER	132kV GELEPHU-SALAKATI	47	22	32	0.76	
	NER	132kV MOTANGA-RANGIA	71	48	59	1.41	
NEPAL	NR	NEPAL IMPORT (FROM UP)	0	0	0	0.00	
	NR	132kV MAHENDRANAGAR-TANAKPUR(NHPC)	0	0	0	0.27	
	ER	NEPAL IMPORT (FROM BIHAR)	0	0	0	0.00	
	ER	400kV DHALKEBAR-MUZAFFARPUR 1&2	718	18	345	8.27	
BANGLADESH	ER	BHERAMARA B/B HVDC (B'DESH)	-985	-934	-940	-22.55	
	ER (Isolated from Indian Grid)	400kV GODDA_TPS-RAHANPUR (B'DESH) D/C	-755	-611	-698	-16.75	
	NER	132kV COMILLA-SURAJMANI NAGAR 1&2	-92	0	-78	-1.86	

CROSS BORDER EXCHANGE SCHEDULE

Date of Reporting: 07-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	22.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	22.50
Myanmar	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total Export	22.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	22.50

Import by India(in MU)

Country	GNA (ISGA/PPA)	T-GNA							TOTAL
		BILATERAL TOTAL	COLLECTIVE						
			IDAM			RTM			
			IEX	PXIL	HPX	IEX	PXIL	HPX	
Bhutan	31.97	0.00	1.06	0.00	0.00	0.04	0.00	0.00	33.07
Nepal	2.63	0.00	11.42	0.00	0.00	0.00	0.00	0.00	14.05
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	34.60	0.00	12.48	0.00	0.00	0.04	0.00	0.00	47.12

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	31.97	0.00	1.06	0.00	0.00	0.04	0.00	0.00	33.07
Nepal	2.63	0.00	11.42	0.00	0.00	0.00	0.00	0.00	14.05
Bangladesh	-22.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-22.50
Myanmar	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total Net	12.10	0.00	12.48	0.00	0.00	0.04	0.00	0.00	24.62