



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: 06.07.2024

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, लापालंग, 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 05.07.2024.

महोदय/Dear Sir,

आईईजीसी-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 5-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 05.07.2024, is available at the NLDC website.

धन्यवाद,
Thanks

Report for previous day

Date of Reporting: 06-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)	66963	57880	46072	25540	3075	199530
Peak Shortage (MW)	0	0	0	0	0	0
Energy Met (MU)	1563	1352	1164	559	60	4697
Hydro Gen (MU)	374.00	23.44	71.60	71.21	42.36	583
Wind Gen (MU)	44	149	212	-	-	404
Solar Gen (MU)*	149.60	58.50	109.82	2.33	0.65	321
Energy Shortage (MU)	0.00	0.00	0.00	0.09	0.00	0.09
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	70388	58487	55726	26594	3114	208631
Time Of Maximum Demand Met	14:46	19:45	11:26	21:26	19:27	11:26

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	0.058	0.16	1.59	9.95	11.70	67.67	20.63

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	15077	0	308.5	190.5	-2.7	284	0.00
	Haryana	11800	0	246.6	181.4	-1.8	239	0.00
	Rajasthan	12814	0	275.8	65.9	-7.7	330	0.00
	Delhi	6246	0	127.4	117.5	-0.4	225	0.00
	UP	22770	0	455.4	207.5	-1.6	787	0.00
	Uttarakhand	2187	0	49.3	23.3	0.1	164	0.00
	HP	1795	0	37.6	-1.5	0.7	110	0.00
	J&K(UT) & Ladakh(UT)	2460	0	50.6	30.0	-5.6	135	0.00
	Chandigarh	367	0	7.3	7.0	0.2	44	0.00
Railways NR ISTS	199	0	4.1	3.9	0.2	31	0.00	
WR	Chhattisgarh	5244	0	118.8	74.4	-1.5	360	0.00
	Gujarat	17846	0	404.4	160.5	-0.6	532	0.00
	MP	10316	0	222.9	109.9	-4.8	497	0.00
	Maharashtra	23601	0	533.1	166.8	-7.6	598	0.00
	Goa	678	0	14.6	13.7	0.6	65	0.00
	DNHDDPDCL	1320	0	30.6	30.7	-0.1	37	0.00
	AMNSIL	673	0	15.0	5.0	0.9	274	0.00
	BALCO	528	0	12.6	12.6	0.0	10	0.00
SR	Andhra Pradesh	10685	0	216.9	52.3	-1.3	583	0.00
	Telangana	11689	0	232.3	163.2	-0.4	550	0.00
	Karnataka	13360	0	240.4	45.2	0.6	850	0.00
	Kerala	3872	0	81.9	47.0	2.3	651	0.00
	Tamil Nadu	17237	0	382.1	183.0	-3.8	828	0.00
	Puducherry	465	0	10.2	9.8	-0.2	57	0.00
ER	Bihar	6197	0	121.2	115.6	0.2	337	0.09
	DVC	3418	0	72.8	-33.5	-1.1	276	0.00
	Jharkhand	2034	0	42.1	29.1	0.1	390	0.00
	Odisha	5220	0	112.0	39.0	-1.4	433	0.00
	West Bengal	9723	0	209.3	70.2	-2.0	259	0.00
	Sikkim	75	0	1.3	1.3	-0.1	21	0.00
Railways ER ISTS	17	0	0.1	0.1	0.0	3	0.00	
NER	Arunachal Pradesh	126	0	2.6	2.5	-0.5	34	0.00
	Assam	2071	0	38.8	30.8	0.3	164	0.00
	Manipur	139	0	2.4	2.7	-0.4	8	0.00
	Meghalaya	316	0	5.8	0.0	-0.2	36	0.00
	Mizoram	117	0	2.0	0.7	-0.2	22	0.00
	Nagaland	151	0	2.8	2.8	-0.2	24	0.00
Tripura	296	0	5.1	5.1	-0.3	95	0.00	

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

	Bhutan	Nepal	Bangladesh	Godda -> Bangladesh
Actual (MU)	35.4	14.6	-23.9	-17.0
Day Peak (MW)	1675.4	731.9	-1027.0	-1181.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	269.0	-278.5	101.0	-80.9	-10.6	0.0
Actual(MU)	239.8	-265.9	116.4	-83.2	-15.9	-8.9
O/D/U/D(MU)	-29.3	12.6	15.4	-2.3	-5.3	-8.9

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL	% Share
Central Sector	4997	12906	7388	5871	597	31758	56
State Sector	4086	10440	8658	1499	119	24802	44
Total	9083	23346	16046	7370	716	56560	100

G. Sourcewise generation (Gross) (MU)

	NR	WR	SR	ER	NER	All India	% Share
Coal	768	1414	579	631	15	3408	67
Lignite	32	17	50	0	0	99	2
Hydro	374	23	72	71	42	583	12
Nuclear	30	47	52	0	0	128	3
Gas, Naptha & Diesel	14	31	5	0	21	70	1
RES (Wind, Solar, Biomass & Others)	199	209	351	4	1	763	15
Total	1417	1742	1108	706	79	5052	100

Share of RES in total generation (%)	14.22	12.01	31.65	0.50	0.82	15.16
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	41.89	16.06	42.77	10.59	54.28	28.96

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.027
Based on State Max Demands	1.069

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

	Max Demand Met(MW)	Time	Shortage(MW)
Solar hr	208631	11:26	0
Non-Solar hr	199982	21:21	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: 06-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	8.5	-8.5
2	HVDC	PUSAULI B/B	-	0	94	0.0	2.3	-2.3
3	765 kV	GAYA-VARANASI	2	633	260	0.5	0.0	0.5
4	765 kV	SASARAM-FATEHPUR	1	138	320	0.0	3.5	-3.5
5	765 kV	GAYA-BALIA	1	0	462	0.0	4.3	-4.3
6	400 kV	PUSAULI-VARANASI	1	0	80	0.0	1.4	-1.4
7	400 kV	PUSAULI-ALLAHABAD	1	0	68	0.0	0.9	-0.9
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	0	534	0.0	8.7	-8.7
9	400 kV	PATNA-BALIA	2	117	404	0.0	5.1	-5.1
10	400 kV	NAUBATPUR-BALIA	2	75	183	0.0	1.1	-1.1
11	400 kV	BIHARSHARIFF-BALIA	2	250	61	1.4	0.0	1.4
12	400 kV	MOTIHARI-GORAKHPUR	2	0	327	0.0	5.1	-5.1
13	400 kV	BIHARSHARIFF-VARANASI	2	182	153	0.0	1.0	-1.0
14	220 kV	SAHUPURI-KARAMNANA	1	31	140	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	0.0	0.3	-0.3
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						1.9	42.8	-40.9
Import/Export of ER (With WR)								
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	908	393	4.2	0.0	4.2
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	2056	0	30.6	0.0	30.6
3	765 kV	JHARSUGUDA-DURG	2	0	342	0.0	5.5	-5.5
4	400 kV	JHARSUGUDA-RAIGARH	4	239	333	0.0	1.8	-1.8
5	400 kV	RANCHI-SIPAT	2	542	0	7.0	0.0	7.0
6	220 kV	BUDHIPADAR-RAIGARH	1	0	194	0.0	3.5	-3.5
7	220 kV	BUDHIPADAR-KORBA	2	0	162	0.0	2.6	-2.6
ER-WR						41.7	13.5	28.3
Import/Export of ER (With SR)								
1	HVDC	JEYPORE-GAZUWAKA B/B	2	0	160	0.0	3.8	-3.8
2	HVDC	TALCHER-KOLAR BIPOLE	2	0	2044	0.0	48.1	-48.1
3	765 kV	ANGUL-SRIKAKULAM	2	0	2777	0.0	47.7	-47.7
4	400 kV	TALCHER-I/C	2	0	1206	0.0	18.3	-18.3
5	220 kV	BALIMELA-UPPER-SILERRU	1	0	0	0.0	0.0	0.0
ER-SR						0.0	99.6	-99.6
Import/Export of ER (With NER)								
1	400 kV	BINAGURI-BONGAIGAON	2	157	184	1.0	0.6	0.4
2	400 kV	ALIPURDUAR-BONGAIGAON	2	173	326	0.0	1.1	-1.1
3	220 kV	ALIPURDUAR-SALAKATI	2	31	84	0.0	0.5	-0.5
ER-NER						1.0	2.2	-1.2
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	1091	0.0	24.0	-24.0
2	HVDC	VINDHYACHAL B/B	-	583	0	0.3	4.6	-4.2
3	HVDC	MUNDRA-MOHINDERGARH	2	0	1909	0.0	48.3	-48.3
4	765 kV	GWALIOR-AGRA	2	0	2355	0.0	29.7	-29.7
5	765 kV	GWALIOR-PHAGI	2	606	1370	1.9	18.2	-16.3
6	765 kV	JABALPUR-ORAI	2	0	1168	0.0	29.9	-29.9
7	765 kV	GWALIOR-ORAI	1	561	0	9.1	0.0	9.1
8	765 kV	SATNA-ORAI	1	0	1062	0.0	19.8	-19.8
9	765 kV	BANASKANTHA-CHITTOGARH	2	946	706	8.0	2.1	5.8
10	765 kV	VINDHYACHAL-VARANASI	2	0	3360	0.0	54.5	-54.5
11	400 kV	ZERDA-KANKROLI	1	252	68	3.1	0.1	3.0
12	400 kV	ZERDA -BHINMAL	1	174	47	2.1	0.0	2.1
13	400 kV	VINDHYACHAL -RIHAND	1	965	0	21.8	0.0	21.8
14	400 kV	RAPP-SHUJALPUR	2	394	415	2.6	2.7	-0.1
15	400 kV	NEEMUCH-Chittorgarh	2	523	420	3.3	3.1	0.3
16	220 kV	BHANPURA-RANPUR	1	0	66	0.0	1.2	-1.2
17	220 kV	BHANPURA-MORAK	1	0	30	0.0	2.6	-2.6
18	220 kV	MEHGAON-AURAIYA	1	59	143	0.6	0.0	0.5
19	220 kV	MALANPUR-AURAIYA	1	43	39	0.3	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						53.0	240.9	-187.8
Import/Export of WR (With SR)								
1	HVDC	BHADRAWATI B/B	-	324	0	7.2	0.0	7.2
2	HVDC	RAIGARH-PUGALUR	2	0	1501	0.0	20.9	-20.9
3	765 kV	SOLAPUR-RAICHUR	2	1185	1273	7.0	2.3	4.8
4	765 kV	WARDHA-NIZAMABAD	2	0	2742	0.0	36.1	-36.1
5	765 kV	WARORA-WARANGAL(NEW)	2	0	2761	0.0	36.9	-36.9
6	400 kV	KOLHAPUR-KUDGI	2	1721	0	30.5	0.0	30.5
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	105	2.1	0.0	2.1
WR-SR						46.8	96.1	-49.3

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)	724	684	693	16.63	
	ER	400kV TALA-BINAGURI 1,2,4 (& 400kV MALBASE - BINAGURI i.e. BINAGURI RECEIPT (from TALA HEP 6*170MW)	740	679	681	16.34	
	ER	220kV CHUKHA-BIRPARA 1&2 (& 220kV MALBASE - BIRPARA) i.e. BIRPARA RECEIPT (from CHUKHA HEP 4*84MW)	43	-4	18	0.42	
	NER	132kV GELEPHU-SALAKATI	34	28	30	0.72	
	NER	132kV MOTANGA-RANGIA	70	40	55	1.31	
NEPAL	NR	NEPAL IMPORT (FROM UP)	0	0	0	0.00	
	NR	132kV MAHENDRANAGAR-TANAKPUR(NHPC)	64	0	41	0.98	
	ER	NEPAL IMPORT (FROM BIHAR)	0	0	0	0.00	
	ER	400kV DHALKEBAR-MUZAFFARPUR 1&2	668	440	568	13.62	
BANGLADESH	ER	BHERAMARA B/B HVDC (B'DESH)	-949	-927	-931	-22.35	
	ER (Isolated from Indian Grid)	400kV GODDA_TPS-RAHANPUR (B'DESH) D/C	-1181	-508	-708	-17.00	
	NER	132kV COMILLA-SURAJMANI NAGAR 1&2	-78	0	-64	-1.54	

CROSS BORDER EXCHANGE SCHEDULE

Date of Reporting: 06-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	22.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	22.30
Myanmar	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total Export	22.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	22.30

Import by India(in MU)

Country	GNA (ISGA/PPA)	T-GNA							TOTAL
		BILATERAL TOTAL	COLLECTIVE						
			IDAM			RTM			
			IEX	PXIL	HPX	IEX	PXIL	HPX	
Bhutan	32.16	0.00	0.96	0.00	0.00	0.08	0.00	0.00	33.20
Nepal	2.63	0.00	10.96	0.00	0.00	0.22	0.00	0.00	13.81
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	34.79	0.00	11.92	0.00	0.00	0.30	0.00	0.00	47.01

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	32.16	0.00	0.96	0.00	0.00	0.08	0.00	0.00	33.20
Nepal	2.63	0.00	10.96	0.00	0.00	0.22	0.00	0.00	13.81
Bangladesh	-22.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-22.30
Myanmar	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total Net	12.49	0.00	11.92	0.00	0.00	0.30	0.00	0.00	24.71