



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: 04.07.2024

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 03.07.2024.

महोदय/Dear Sir,

आईईजीसी-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 3-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 03.07.2024, is available at the NLDC website.

धन्यवाद,
Thanks

Report for previous day

Date of Reporting: 04-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)	71032	59254	47091	25676	3197	206250
Peak Shortage (MW)	0	0	0	0	0	0
Energy Met (MU)	1640	1333	1141	538	59	4711
Hydro Gen (MU)	363	34	74	67	41	578
Wind Gen (MU)	39	231	212	-	-	482
Solar Gen (MU)*	164.54	70.43	111.01	1.39	0.95	348
Energy Shortage (MU)	0.11	0.00	0.00	0.02	0.00	0.13
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	73903	59773	52762	26340	3210	206103
Time Of Maximum Demand Met	00:00	19:41	11:47	20:43	19:59	19:48

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	0.036	0.00	0.64	6.68	7.31	78.80	13.89

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	15295	0	315.6	201.5	-3.2	250	0.00
	Haryana	12172	0	255.2	193.6	-4.7	195	0.00
	Rajasthan	15425	0	324.5	115.9	-0.4	696	0.00
	Delhi	6835	0	138.1	128.3	-2.7	131	0.00
	UP	23741	0	455.3	224.2	-1.5	517	0.00
	Uttarakhand	2138	75	46.2	22.5	-1.0	174	0.11
	HP	1785	0	37.4	-0.2	-0.1	144	0.00
	J&K(UT) & Ladakh(UT)	2727	0	56.6	31.1	-0.7	346	0.00
	Chandigarh	362	0	7.0	7.5	-0.5	13	0.00
Railways NR ISTS	214	0	4.3	3.9	0.4	46	0.00	
WR	Chhattisgarh	5163	0	120.4	72.8	-0.1	357	0.00
	Gujarat	17474	0	377.9	119.6	-9.2	266	0.00
	MP	10908	0	229.7	117.2	-4.1	479	0.00
	Maharashtra	24174	0	531.3	164.5	-8.0	757	0.00
	Goa	680	0	14.6	14.1	0.2	35	0.00
	DNHDDPDCL	1319	0	30.3	30.6	-0.3	43	0.00
	AMNSIL	759	0	16.4	6.5	0.5	271	0.00
	BALCO	527	0	12.6	12.6	0.0	9	0.00
SR	Andhra Pradesh	10091	0	213.4	48.4	1.0	632	0.00
	Telangana	10802	0	214.6	138.8	1.1	633	0.00
	Karnataka	12600	0	236.7	47.5	-1.2	459	0.00
	Kerala	4048	0	81.7	47.0	1.7	606	0.00
	Tamil Nadu	17659	0	383.7	181.5	-2.5	1068	0.00
	Puducherry	487	0	10.7	10.2	-0.2	35	0.00
ER	Bihar	6348	0	121.0	111.0	-0.6	251	0.02
	DVC	3308	0	69.1	-28.6	0.3	295	0.00
	Jharkhand	1936	0	39.1	29.3	-1.5	222	0.00
	Odisha	5558	0	112.6	36.3	0.4	593	0.00
	West Bengal	9272	0	194.7	65.0	-1.9	289	0.00
	Sikkim	80	0	1.2	1.3	-0.1	42	0.00
Railways ER ISTS	20	0	0.2	0.1	0.0	4	0.00	
NER	Arunachal Pradesh	131	0	2.5	2.7	-0.9	0	0.00
	Assam	2140	0	39.4	32.0	0.1	181	0.00
	Manipur	167	0	2.2	2.6	-0.3	16	0.00
	Meghalaya	308	0	5.7	0.4	0.0	101	0.00
	Mizoram	111	0	1.9	1.0	-0.4	2	0.00
	Nagaland	159	0	2.7	2.7	-0.2	10	0.00
Tripura	280	0	5.1	4.5	-0.1	79	0.00	

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

	Bhutan	Nepal	Bangladesh	Godda -> Bangladesh
Actual (MU)	37.0	15.0	-18.9	-31.1
Day Peak (MW)	1704.0	734.6	-1020.0	-1431.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	373.4	-341.0	80.3	-105.2	-7.5	0.0
Actual(MU)	332.3	-341.6	105.0	-103.5	-11.4	-19.3
O/D/U/D(MU)	-41.1	-0.6	24.7	1.7	-3.9	-19.3

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL	% Share
Central Sector	4777	12894	7598	5076	597	30941	52
State Sector	5186	12495	7878	2769	119	28447	48
Total	9963	25389	15476	7845	716	59388	100

G. Sourcewise generation (Gross) (MU)

	NR	WR	SR	ER	NER	All India	% Share
Coal	733	1373	566	632	13	3317	66
Lignite	32	13	49	0	0	94	2
Hydro	363	34	74	67	41	578	11
Nuclear	30	47	52	0	0	128	3
Gas, Naptha & Diesel	17	25	5	0	21	67	1
RES (Wind, Solar, Biomass & Others)	211	302	353	3	1	871	17
Total	1386	1794	1098	701	76	5055	100

Share of RES in total generation (%)	15.25	16.86	32.17	0.37	1.31	17.22
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	43.56	21.35	43.58	9.93	55.60	31.20

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.047
Based on State Max Demands	1.102

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

	Max Demand Met(MW)	Time	Shortage(MW)
Solar hr	204244	11:46	67
Non-Solar hr	206103	19:48	75

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: 04-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	8.4	-8.4
2	HVDC	PUSAULI B/B	-	0	95	0.0	2.3	-2.3
3	765 kV	GAYA-VARANASI	2	410	873	0.0	5.6	-5.6
4	765 kV	SASARAM-FATEHPUR	1	55	469	0.0	4.6	-4.6
5	765 kV	GAYA-BALIA	1	0	601	0.0	7.3	-7.3
6	400 kV	PUSAULI-VARANASI	1	0	84	0.0	1.1	-1.1
7	400 kV	PUSAULI-ALLAHABAD	1	0	78	0.0	1.1	-1.1
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	0	778	0.0	10.5	-10.5
9	400 kV	PATNA-BALIA	2	146	631	0.0	6.5	-6.5
10	400 kV	NAUBATPUR-BALIA	2	87	185	0.0	1.5	-1.5
11	400 kV	BIHARSHARIFF-BALIA	2	254	166	0.7	0.0	0.7
12	400 kV	MOTIHARI-GORAKHPUR	2	0	470	0.0	6.5	-6.5
13	400 kV	BIHARSHARIFF-VARANASI	2	0	0	0.0	0.0	0.0
14	220 kV	SAHUPURI-KARAMNANA	1	34	42	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						1.1	55.8	-54.7
Import/Export of ER (With WR)								
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	278	954	0.0	6.6	-6.6
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	1684	328	22.7	0.0	22.7
3	765 kV	JHARSUGUDA-DURG	2	0	402	0.0	5.7	-5.7
4	400 kV	JHARSUGUDA-RAIGARH	4	154	389	0.0	2.6	-2.6
5	400 kV	RANCHI-SIPAT	2	416	133	5.1	0.0	5.1
6	220 kV	BUDHIPADAR-RAIGARH	1	0	136	0.0	2.4	-2.4
7	220 kV	BUDHIPADAR-KORBA	2	0	199	0.0	1.7	-1.7
ER-WR						27.8	19.0	8.8
Import/Export of ER (With SR)								
1	HVDC	JEYPORE-GAZUWAKA B/B	2	512	160	1.4	0.0	1.4
2	HVDC	TALCHER-KOLAR BIPOLE	2	0	1705	0.0	41.0	-41.0
3	765 kV	ANGUL-SRIKAKULAM	2	0	2911	0.0	47.6	-47.6
4	400 kV	TALCHER-I/C	2	0	524	0.0	8.6	-8.6
5	220 kV	BALIMELA-UPPER-SILERRU	1	0	0	0.0	0.0	0.0
ER-SR						1.4	88.6	-87.2
Import/Export of ER (With NER)								
1	400 kV	BINAGURI-BONGAIGAON	2	301	259	1.7	1.4	0.3
2	400 kV	ALIPURDUAR-BONGAIGAON	2	403	452	0.0	0.6	-0.6
3	220 kV	ALIPURDUAR-SALAKATI	2	82	99	0.0	0.1	-0.1
ER-NER						1.7	2.1	-0.4
Import/Export of <null> (With <null>)								
No Records Found								
NER-NR						0.0	0.0	0.0
Import/Export of WR (With NR)								
1	HVDC	CHAMPA-KURUKSHETRA	2	0	3009	0.0	61.0	-61.0
2	HVDC	VINDHYACHAL B/B	-	214	501	0.0	9.6	-9.6
3	HVDC	MUNDRA-MOHINDERGARH	2	0	1909	0.0	37.5	-37.5
4	765 kV	GWALIOR-AGRA	2	0	2421	0.0	39.0	-39.0
5	765 kV	GWALIOR-PHAGI	2	808	1678	2.8	21.3	-18.5
6	765 kV	JABALPUR-ORAI	2	0	1164	0.0	35.0	-35.0
7	765 kV	GWALIOR-ORAI	1	602	87	8.3	0.1	8.2
8	765 kV	SATNA-ORAI	1	0	1061	0.0	20.8	-20.8
9	765 kV	BANASKANTHA-CHITTOGARH	2	0	1615	0.0	21.9	-21.9
10	765 kV	VINDHYACHAL-VARANASI	2	0	3175	0.0	53.0	-53.0
11	400 kV	ZERDA-KANKROLI	1	62	228	0.1	2.3	-2.2
12	400 kV	ZERDA -BHINMAL	1	43	157	0.1	1.6	-1.5
13	400 kV	VINDHYACHAL -RIHAND	1	960	0	20.5	0.0	20.5
14	400 kV	RAPP-SHUJALPUR	2	309	567	1.6	5.5	-3.8
15	400 kV	NEEMUCH-Chittorgarh	2	412	502	2.7	4.3	-1.6
16	220 kV	BHANPURA-RANPUR	1	0	78	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	65	25	0.3	0.1	0.2
19	220 kV	MALANPUR-AURAIYA	1	42	38	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						36.5	316.9	-280.4
Import/Export of WR (With SR)								
1	HVDC	BHADRAWATI B/B	-	501	0	8.8	0.0	8.8
2	HVDC	RAIGARH-PUGALUR	2	0	2311	0.0	40.9	-40.9
3	765 kV	SOLAPUR-RAICHUR	2	1418	1101	13.8	4.2	9.6
4	765 kV	WARDHA-NIZAMABAD	2	0	2508	0.0	31.9	-31.9
5	765 kV	WARORA-WARANGAL(NEW)	2	0	2487	0.0	30.4	-30.4
6	400 kV	KOLHAPUR-KUDGI	2	1721	0	32.2	0.0	32.2
7	220 kV	KOLHAPUR-CHIKODI	2	0	0	0.0	0.0	0.0
8	220 kV	PONDA-AMBEWADI	1	1	0	0.0	0.0	0.0
9	220 kV	XELDEM-AMBEWADI	1	1	114	0.4	0.0	0.4
WR-SR						55.3	107.5	-52.3
INTERNATIONAL EXCHANGES								
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)	758	681	758	18.87		
	ER	400kV TALA-BINAGURI 1,2,4 (& 400kV MALBASE - BINAGURI) i.e. BINAGURI RECEIPT (from TALA HEP 6*170MW)	746	650	670	16.09		
	ER	220kV CHUKHA-BIRPARA 1&2 (& 220kV MALBASE - BIRPARA) i.e. BIRPARA RECEIPT (from CHUKHA HEP 4*84MW)	57	0	6	0.16		
	NER	132kV GELEPHU-SALAKATI	35	0	27	0.65		
	NER	132kV MOTANGA-RANGIA	61	0	52	1.25		
NEPAL	NR	NEPAL IMPORT (FROM UP)	-27	0	0	0.00		
	NR	132kV MAHENDRANAGAR-TANAKPUR(NHPC)	68	0	39	0.94		
	ER	NEPAL IMPORT (FROM BIHAR)	0	0	0	0.00		
	ER	400kV DHALKEBAR-MUZAFFARPUR 1&2	667	506	584	14.01		
BANGLADESH	ER	BHERAMARA B/B HVDC (B'DESH)	-936	-491	-714	-17.14		
	ER (Isolated from Indian Grid)	400kV GODDA_TPS-RAHANPUR (B'DESH) D/C	-1431	-1103	-1295	-31.08		
	NER	132kV COMILLA-SURAJMANI NAGAR 1&2	-84	0	-74	-1.78		

CROSS BORDER EXCHANGE SCHEDULE

Date of Reporting: 04-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	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.05
Bangladesh	16.46	0.00	0.00	0.00	0.00	0.00	0.00	0.00	16.46
Myanmar	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total Export	16.51	0.00	0.00	0.00	0.00	0.00	0.00	0.00	16.51

Import by India(in MU)

Country	GNA (ISGA/PPA)	T-GNA							TOTAL
		BILATERAL TOTAL	COLLECTIVE						
			IDAM			RTM			
		IEX	PXIL	HPX	IEX	PXIL	HPX		
Bhutan	32.07	0.00	0.99	0.00	0.00	0.11	0.00	0.00	33.17
Nepal	2.63	0.00	10.65	0.00	0.00	0.76	0.00	0.00	14.04
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	34.70	0.00	11.64	0.00	0.00	0.87	0.00	0.00	47.21

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	32.07	0.00	0.99	0.00	0.00	0.11	0.00	0.00	33.17
Nepal	2.58	0.00	10.65	0.00	0.00	0.76	0.00	0.00	13.99
Bangladesh	-16.46	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-16.46
Myanmar	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total Net	18.19	0.00	11.64	0.00	0.00	0.87	0.00	0.00	30.70