



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: 05.07.2024

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 04.07.2024.

महोदय/Dear Sir,

आईईजीसी-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 04-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 04.07.2024, is available at the NLDC website.

धन्यवाद,
Thanks

Report for previous day

Date of Reporting: 05-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)	70231	58955	48459	25689	3215	206549
Peak Shortage (MW)	0	0	0	261	0	261
Energy Met (MU)	1525	1358	1160	554	63	4660
Hydro Gen (MU)	362	35	85	68	42	592
Wind Gen (MU)	35	173	184	-	-	392
Solar Gen (MU)*	140.05	61.07	104.27	2.46	0.98	309
Energy Shortage (MU)	0.25	0.00	0.94	1.37	0.00	2.56
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	71450	59970	53086	26492	3206	207180
Time Of Maximum Demand Met	21:18	19:37	15:26	20:59	19:11	21:21

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	0.037	0.00	0.61	8.04	8.66	79.59	11.76

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	13281	0	260.4	158.7	-2.9	440	0.00
	Haryana	11032	0	228.5	165.9	-3.1	219	0.00
	Rajasthan	13124	0	295.6	88.9	-5.9	215	0.00
	Delhi	6055	0	127.7	117.5	-1.4	171	0.00
	UP	23750	0	462.6	221.9	0.5	592	0.00
	Uttarakhand	2323	0	48.9	25.0	0.4	138	0.25
	HP	1740	0	37.0	-1.9	-0.1	78	0.00
	J&K(UT) & Ladakh(UT)	2570	0	53.3	29.7	-2.7	119	0.00
	Chandigarh	346	0	6.9	7.1	-0.2	41	0.00
Railways NR ISTS	202	0	4.2	3.7	0.5	51	0.00	
WR	Chhattisgarh	5152	0	117.1	74.0	-1.4	358	0.00
	Gujarat	18134	0	398.8	148.4	3.3	945	0.00
	MP	10827	0	228.1	115.8	-3.6	360	0.00
	Maharashtra	23915	0	540.9	172.1	-9.9	723	0.00
	Goa	696	0	14.9	13.8	0.8	57	0.00
	DNHDDPDCL	1339	0	30.7	30.6	0.1	38	0.00
	AMNSIL	685	0	14.6	4.6	0.5	216	0.00
	BALCO	526	0	12.6	12.6	0.0	9	0.00
SR	Andhra Pradesh	10588	0	222.2	51.6	-1.9	632	0.00
	Telangana	11105	0	231.0	153.5	0.9	718	0.00
	Karnataka	12035	0	233.6	39.7	-2.5	494	0.00
	Kerala	4183	0	81.9	49.7	2.4	641	0.94
	Tamil Nadu	17530	0	380.9	187.2	6.4	1628	0.00
	Puducherry	485	0	10.8	10.0	0.2	88	0.00
ER	Bihar	6500	0	124.0	116.1	-2.3	644	1.37
	DVC	3339	0	71.1	-25.8	0.4	311	0.00
	Jharkhand	2068	0	39.8	27.9	0.3	291	0.00
	Odisha	5180	0	114.1	44.1	-0.6	414	0.00
	West Bengal	9600	0	203.6	67.9	-1.3	430	0.00
	Sikkim	82	0	1.2	1.3	-0.1	31	0.00
	Railways ER ISTS	18	0	0.1	0.2	0.0	3	0.00
NER	Arunachal Pradesh	123	0	2.7	2.7	-0.6	10	0.00
	Assam	2201	0	41.6	33.2	0.9	184	0.00
	Manipur	166	0	2.6	2.7	-0.1	16	0.00
	Meghalaya	325	0	5.8	0.1	-0.2	55	0.00
	Mizoram	116	0	2.1	0.8	-0.1	44	0.00
	Nagaland	163	0	3.1	2.8	0.0	10	0.00
	Tripura	306	0	5.4	4.6	-0.1	32	0.00

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

	Bhutan	Nepal	Bangladesh	Godda -> Bangladesh
Actual (MU)	34.0	14.2	-23.9	-29.3
Day Peak (MW)	1660.0	621.0	-1025.0	-1431.2

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	268.1	-284.8	106.4	-83.0	-6.7	0.0
Actual(MU)	236.6	-270.2	135.5	-99.8	-9.8	-7.7
O/D/U/D(MU)	-31.5	14.7	29.1	-16.8	-3.1	-7.7

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL	% Share
Central Sector	4637	12172	7598	5061	597	30064	54
State Sector	3686	11138	8658	2349	119	25950	46
Total	8322	23310	16256	7410	716	56014	100

G. Sourcewise generation (Gross) (MU)

	NR	WR	SR	ER	NER	All India	% Share
Coal	758	1394	572	648	14	3387	67
Lignite	31	16	50	0	0	97	2
Hydro	362	35	85	68	42	592	12
Nuclear	30	47	52	0	0	128	3
Gas, Naptha & Diesel	17	31	5	0	22	75	1
RES (Wind, Solar, Biomass & Others)	183	235	318	4	1	741	15
Total	1382	1758	1082	719	79	5020	100

Share of RES in total generation (%)	13.26	13.36	29.41	0.50	1.24	14.76
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	41.64	18.01	42.05	9.94	54.20	29.11

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.033
Based on State Max Demands	1.070

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

	Max Demand Met(MW)	Time	Shortage(MW)
Solar hr	203368	15:03	0
Non-Solar hr	207180	21:21	80

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: 05-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	8.8	-8.8
2	HVDC	PUSAULI B/B	-	0	95	0.0	2.4	-2.4
3	765 kV	GAYA-VARANASI	2	708	469	0.0	1.5	-1.5
4	765 kV	SASARAM-FATEHPUR	1	238	341	0.0	3.1	-3.1
5	765 kV	GAYA-BALIA	1	29	487	0.0	5.8	-5.8
6	400 kV	PUSAULI-VARANASI	1	0	140	0.0	1.7	-1.7
7	400 kV	PUSAULI-ALLAHABAD	1	48	57	0.0	0.6	-0.6
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	0	637	0.0	9.2	-9.2
9	400 kV	PATNA-BALIA	2	285	402	0.0	4.8	-4.8
10	400 kV	NAUBATPUR-BALIA	2	141	106	0.0	0.8	-0.8
11	400 kV	BIHARSHARIF-BALIA	2	344	31	2.2	0.0	2.2
12	400 kV	MOTIHARI-GORAKHPUR	2	10	356	0.0	5.6	-5.6
13	400 kV	BIHARSHARIF-VARANASI	2	239	167	0.0	1.2	-1.2
14	220 kV	SAHUPURI-KARAMNANA	1	59	31	0.0	0.1	-0.1
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						2.7	45.4	-42.7
Import/Export of ER (With WR)								
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	772	693	1.7	0.0	1.7
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	1870	0	26.9	0.0	26.9
3	765 kV	JHARSUGUDA-DURG	2	0	415	0.0	6.5	-6.5
4	400 kV	JHARSUGUDA-RAIGARH	4	183	438	0.0	3.2	-3.2
5	400 kV	RANCHI-SIPAT	2	441	49	5.4	0.0	5.4
6	220 kV	BUDHIPADAR-RAIGARH	1	0	149	0.0	2.7	-2.7
7	220 kV	BUDHIPADAR-KORBA	2	1	139	0.0	2.2	-2.2
ER-WR						34.0	14.6	19.4
Import/Export of ER (With SR)								
1	HVDC	JEYPORE-GAZUWAKA B/B	2	0	160	0.0	4.2	-4.2
2	HVDC	TALCHER-KOLAR BIPOLE	2	0	1990	0.0	45.4	-45.4
3	765 kV	ANGUL-SRIKAKULAM	2	0	2851	0.0	54.3	-54.3
4	400 kV	TALCHER-I/C	2	0	1256	0.0	14.1	-14.1
5	220 kV	BALIMELA-UPPER-SILERRU	1	0	0	0.0	0.0	0.0
ER-SR						0.0	103.8	-103.8
Import/Export of ER (With NER)								
1	400 kV	BINAGURI-BONGAIGAON	2	113	185	0.3	1.6	-1.4
2	400 kV	ALIPURDUAR-BONGAIGAON	2	107	274	0.0	2.4	-2.4
3	220 kV	ALIPURDUAR-SALAKATI	2	16	82	0.0	0.8	-0.8
ER-NER						0.3	4.8	-4.5
Import/Export of NER (With NR)								
1	HVDC	BISWANATH CHARIALI-AGRA	2	0	704	0.0	16.1	-16.1
NER-NR						0.0	16.1	-16.1
Import/Export of WR (With NR)								
1	HVDC	CHAMPA-KURUKSHETRA	2	0	2004	0.0	27.2	-27.2
2	HVDC	VINDHYACHAL B/B	-	768	0	1.5	4.5	-3.0
3	HVDC	MUNDRA-MOHINDERGARH	2	0	1909	0.0	48.4	-48.4
4	765 kV	GWALIOR-AGRA	2	174	2096	0.1	28.5	-28.3
5	765 kV	GWALIOR-PHAGI	2	1002	1380	3.2	18.7	-15.5
6	765 kV	JABALPUR-ORAI	2	3	1069	0.0	30.1	-30.1
7	765 kV	GWALIOR-ORAI	1	647	42	9.3	0.0	9.3
8	765 kV	SATNA-ORAI	1	0	982	0.0	18.2	-18.2
9	765 kV	BANASKANTHA-CHITTOGARH	2	1322	1053	6.0	4.9	1.1
10	765 kV	VINDHYACHAL-VARANASI	2	0	3101	0.0	47.4	-47.4
11	400 kV	ZERDA-KANKROLI	1	309	147	2.1	0.4	1.8
12	400 kV	ZERDA-BHINMAL	1	213	102	1.5	0.3	1.2
13	400 kV	VINDHYACHAL-RIHAND	1	971	0	22.4	0.0	22.4
14	400 kV	RAPP-SHUALPUR	2	510	427	3.0	3.5	-0.5
15	400 kV	NEEMUCH-Chittorgarh	2	611	361	3.6	3.1	0.5
16	220 kV	BHANPURA-RANPUR	1	0	74	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	82	14	0.6	0.0	0.5
19	220 kV	MALANPUR-AURAIYA	1	62	26	0.3	0.0	0.3
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						53.6	238.8	-185.2
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	1506	0.0	24.8	-24.8
3	765 kV	SOLAPUR-RAICHUR	2	880	981	5.2	2.6	2.6
4	765 kV	WARDHA-NIZAMABAD	2	0	2712	0.0	40.9	-40.9
5	765 kV	WARORA-WARANGAL(NEW)	2	0	2726	0.0	40.6	-40.6
6	400 kV	KOLHAPUR-KUDGI	2	1545	0	28.5	0.0	28.5
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	0	120	2.3	0.0	2.3
WR-SR						43.2	108.9	-65.7

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)	734	421	639	15.33	
	ER	400kV TALA-BINAGURI 1,2,4 (& 400kV MALBASE - BINAGURI i.e. BINAGURI RECEIPT (from TALA HEP 6*170MW)	720	668	671	16.10	
	ER	220kV CHUKHA-BIRPARA 1&2 (& 220kV MALBASE - BIRPARA) i.e. BIRPARA RECEIPT (from CHUKHA HEP 4*84MW)	54	6	31	0.75	
	NER	132kV GELEPHU-SALAKATI	34	0	23	0.56	
	NER	132kV MOTANGA-RANGIA	66	0	52	1.25	
NEPAL	NR	NEPAL IMPORT (FROM UP)	0	0	0	0.00	
	NR	132kV MAHENDRANAGAR-TANAKPUR(NHPC)	0	0	0	0.86	
	ER	NEPAL IMPORT (FROM BIHAR)	0	0	0	0.00	
	ER	400kV DHALKEBAR-MUZAFFARPUR 1&2	654	415	555	13.33	
BANGLADESH	ER	BHERAMARA B/B HVDC (B'DESH)	-944	-860	-921	-22.10	
	ER (Isolated from Indian Grid)	400kV GODDA_TPS-RAHANPUR (B'DESH) D/C	-1431	-1004	-1222	-29.32	
	NER	132kV COMILLA-SURAJMANI NAGAR 1&2	-81	0	-75	-1.80	

CROSS BORDER EXCHANGE SCHEDULE

Date of Reporting: 05-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	0.00
Nepal	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.05
Bangladesh	22.17	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	22.17
Myanmar	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total Export	22.22	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	22.22

Import by India(in MU)

Country	GNA (ISGA/PPA)	T-GNA							TOTAL	
		BILATERAL TOTAL	COLLECTIVE							
			IDAM			RTM				
			IEX	PXIL	HPX	IEX	PXIL	HPX		
Bhutan	29.06	0.00	0.96	0.00	0.00	0.10	0.00	0.00	0.00	30.12
Nepal	2.63	0.00	10.89	0.00	0.00	0.38	0.00	0.00	0.00	13.90
Bangladesh	0.00	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	0.00
Total Import	31.69	0.00	11.85	0.00	0.00	0.48	0.00	0.00	0.00	44.02

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	29.06	0.00	0.96	0.00	0.00	0.10	0.00	0.00	0.00	30.12
Nepal	2.58	0.00	10.89	0.00	0.00	0.38	0.00	0.00	0.00	13.85
Bangladesh	-22.17	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-22.17
Myanmar	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total Net	9.47	0.00	11.85	0.00	0.00	0.48	0.00	0.00	0.00	21.80