



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: 03.07.2024

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 02.07.2024.

महोदय/Dear Sir,

आईईजीसी-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 2-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 02.07.2024, is available at the NLDC website.

धन्यवाद,
Thanks

Report for previous day

Date of Reporting: 03-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)	77643	57127	46970	24707	3045	209492
Peak Shortage (MW)	63	0	0	333	0	396
Energy Met (MU)	1710	1288	1110	539	56	4702
Hydro Gen (MU)	369	31	72	64	41	577
Wind Gen (MU)	45	259	220	-	-	524
Solar Gen (MU)*	160.29	41.24	113.72	2.53	0.61	318
Energy Shortage (MU)	0.06	0.00	0.00	0.30	0.00	0.36
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	78609	57888	50262	26539	3079	209923
Time Of Maximum Demand Met	22:10	19:43	11:30	00:01	19:32	20:43

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	0.00	5.27	5.27	77.09	17.65

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	15372	0	328.2	206.9	-1.7	203	0.00
	Haryana	12531	0	264.9	198.2	-0.4	225	0.00
	Rajasthan	14772	0	323.0	110.2	2.6	566	0.00
	Delhi	7250	0	149.0	136.6	-0.3	180	0.00
	UP	25813	0	491.4	259.1	-1.5	332	0.00
	Uttarakhand	2280	0	51.7	27.2	-0.5	122	0.00
	HP	1761	0	35.9	0.4	-0.3	117	0.00
	J&K(UT) & Ladakh(UT)	2508	0	54.0	30.8	-3.0	159	0.06
	Chandigarh	391	0	7.8	8.2	-0.4	34	0.00
Railways NR ISTS	211	0	4.3	3.9	0.4	74	0.00	
WR	Chhattisgarh	5072	0	113.3	66.0	0.6	261	0.00
	Gujarat	16404	0	369.2	111.3	-4.9	706	0.00
	MP	10456	0	221.6	110.3	-3.7	501	0.00
	Maharashtra	23174	0	510.4	157.7	-7.4	604	0.00
	Goa	680	0	14.6	14.1	0.2	51	0.00
	DNHDDPDCL	1298	0	29.5	29.6	-0.1	65	0.00
	AMNSIL	745	0	16.4	6.3	0.6	256	0.00
	BALCO	525	0	12.5	12.6	-0.1	11	0.00
SR	Andhra Pradesh	9311	0	202.4	36.6	-2.3	545	0.00
	Telangana	10717	0	212.4	139.7	-0.9	484	0.00
	Karnataka	11820	0	227.1	29.5	-3.0	578	0.00
	Kerala	4058	0	79.7	45.6	2.1	405	0.00
	Tamil Nadu	17642	0	377.7	180.8	4.9	1237	0.00
	Puducherry	485	0	10.4	10.2	-0.3	31	0.00
ER	Bihar	6191	0	111.9	107.1	-3.8	522	0.30
	DVC	3276	0	70.8	-29.7	1.3	375	0.00
	Jharkhand	1964	0	38.7	30.0	-2.1	164	0.00
	Odisha	5544	0	115.3	37.0	-1.2	342	0.00
	West Bengal	9946	0	201.4	68.8	-2.8	132	0.00
	Sikkim	75	0	1.2	1.5	-0.3	38	0.00
	Railways ER ISTS	20	0	0.2	0.1	0.0	12	0.00
NER	Arunachal Pradesh	126	0	2.6	2.7	-0.7	0	0.00
	Assam	2003	0	35.6	27.6	0.4	123	0.00
	Manipur	160	0	2.5	2.7	-0.2	16	0.00
	Meghalaya	303	0	5.7	0.6	-0.2	88	0.00
	Mizoram	109	0	1.8	1.0	-0.5	4	0.00
	Nagaland	161	0	2.7	2.6	-0.1	19	0.00
	Tripura	276	0	5.0	4.1	0.0	26	0.00

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

	Bhutan	Nepal	Bangladesh	Godda -> Bangladesh
Actual (MU)	35.2	14.4	-24.5	-24.8
Day Peak (MW)	1678.0	721.8	-1032.0	-1513.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	422.4	-354.9	53.2	-109.7	-10.9	0.0
Actual(MU)	403.3	-354.0	68.9	-115.8	-14.1	-11.7
O/D/U/D(MU)	-19.0	0.9	15.7	-6.1	-3.2	-11.7

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL	% Share
Central Sector	4166	11708	6298	5556	647	28375	49
State Sector	5536	12668	8713	1959	119	28994	51
Total	9702	24375	15011	7515	766	57369	100

G. Sourcewise generation (Gross) (MU)

	NR	WR	SR	ER	NER	All India	% Share
Coal	737	1311	550	654	13	3265	65
Lignite	31	12	57	0	0	101	2
Hydro	369	31	72	64	41	577	11
Nuclear	30	54	52	0	0	136	3
Gas, Naptha & Diesel	19	24	5	0	22	71	1
RES (Wind, Solar, Biomass & Others)	213	303	365	4	1	886	18
Total	1400	1736	1101	722	76	5035	100

Share of RES in total generation (%)	15.25	17.43	33.17	0.52	0.82	17.59
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	43.73	22.36	44.35	9.44	54.51	31.74

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.030
Based on State Max Demands	1.073

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

	Max Demand Met(MW)	Time	Shortage(MW)
Solar hr	201824	14:59	0
Non-Solar hr	209923	20:43	396

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: 03-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	350	0.0	2.7	-2.7
2	HVDC	PUSAULI B/B	-	0	95	0.0	2.4	-2.4
3	765 kV	GAYA-VARANASI	2	238	1007	0.0	11.0	-11.0
4	765 kV	SASARAM-FATEHPUR	1	0	556	0.0	7.1	-7.1
5	765 kV	GAYA-BALIA	1	0	643	0.0	9.5	-9.5
6	400 kV	PUSAULI-VARANASI	1	7	54	0.0	0.5	-0.5
7	400 kV	PUSAULI-ALLAHABAD	1	0	103	0.0	2.0	-2.0
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	0	1111	0.0	18.5	-18.5
9	400 kV	PATNA-BALIA	2	0	881	0.0	12.5	-12.5
10	400 kV	NAUBATPUR-BALIA	2	0	269	0.0	3.5	-3.5
11	400 kV	BIHARSHARIF-BALIA	2	88	289	0.0	3.5	-3.5
12	400 kV	MOTIHARI-GORAKHPUR	2	0	681	0.0	10.1	-10.1
13	400 kV	BIHARSHARIF-VARANASI	2	0	0	0.0	0.0	0.0
14	220 kV	SAHUPURI-KARAMNANA	1	20	54	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	0.6	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						0.6	83.8	-83.3
Import/Export of ER (With WR)								
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	327	1143	0.0	13.5	-13.5
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	1810	267	25.2	0.0	25.2
3	765 kV	JHARSUGUDA-DURG	2	0	404	0.0	5.7	-5.7
4	400 kV	JHARSUGUDA-RAIGARH	4	208	332	0.0	1.7	-1.7
5	400 kV	RANCHI-SIPAT	2	508	118	5.4	0.0	5.4
6	220 kV	BUDHIPADAR-RAIGARH	1	0	151	0.0	2.7	-2.7
7	220 kV	BUDHIPADAR-KORBA	2	0	163	0.0	2.9	-2.9
ER-WR						30.6	26.4	4.2
Import/Export of ER (With SR)								
1	HVDC	JEYPORE-GAZUWAKA B/B	2	513	0	7.6	0.0	7.6
2	HVDC	TALCHER-KOLAR BIPOLE	2	0	1692	0.0	41.0	-41.0
3	765 kV	ANGUL-SRIKAKULAM	2	0	3008	0.0	48.5	-48.5
4	400 kV	TALCHER-I/C	2	0	815	0.0	10.5	-10.5
5	220 kV	BALIMELA-UPPER-SILERRU	1	0	0	0.0	0.0	0.0
ER-SR						7.6	89.5	-81.9
Import/Export of ER (With NER)								
1	400 kV	BINAGURI-BONGAIGAON	2	602	36	7.7	0.0	7.7
2	400 kV	ALIPURDUAR-BONGAIGAON	2	768	102	9.5	0.0	9.5
3	220 kV	ALIPURDUAR-SALAKATI	2	142	30	1.8	0.0	1.8
ER-NER						19.1	0.0	19.1
Import/Export of NER (With NR)								
1	HVDC	BISWANATH CHARIAL-AGRA	2	501	352	6.2	3.1	3.1
NER-NR						6.2	3.1	3.1
Import/Export of WR (With NR)								
1	HVDC	CHAMPA-KIRUKSHETRA	2	0	3007	0.0	71.6	-71.6
2	HVDC	VINDHYACHAL B/B	-	0	511	0.0	12.0	-12.0
3	HVDC	MUNDRA-MOHINDERGARH	2	0	1910	0.0	37.2	-37.2
4	765 kV	GWALIOR-AGRA	2	0	2989	0.0	49.7	-49.7
5	765 kV	GWALIOR-PHAGI	2	485	1634	1.4	22.0	-20.6
6	765 kV	JABALPUR-ORAI	2	0	1315	0.0	39.8	-39.8
7	765 kV	GWALIOR-ORAI	1	553	0	8.7	0.0	8.7
8	765 kV	SATNA-ORAI	1	0	1170	0.0	22.5	-22.5
9	765 kV	BANASKANTHA-CHITTOGARH	2	0	2010	0.0	29.2	-29.2
10	765 kV	VINDHYACHAL-VARANASI	2	0	2954	0.0	53.1	-53.1
11	400 kV	ZERDA-KANKROLI	1	69	284	0.1	3.5	-3.4
12	400 kV	ZERDA-BHINMAL	1	48	196	0.1	2.4	-2.3
13	400 kV	VINDHYACHAL-RIHAND	1	966	0	20.2	0.0	20.2
14	400 kV	RAPP-SHUALPUR	2	170	593	0.5	6.7	-6.2
15	400 kV	NEEMUCH-Chittorgarh	2	241	530	1.0	5.1	-4.1
16	220 kV	BHANPURA-RANPUR	1	0	73	0.0	1.1	-1.1
17	220 kV	BHANPURA-MORAK	1	0	30	0.0	2.4	-2.4
18	220 kV	MEHGAON-AURAIYA	1	39	49	0.1	0.4	-0.3
19	220 kV	MALANPUR-AURAIYA	1	20	59	0.0	0.6	-0.6
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						32.1	359.2	-327.1
Import/Export of WR (With SR)								
1	HVDC	BHADRAWATI B/B	-	997	0	12.6	0.0	12.6
2	HVDC	RAIGARH-PUGALUR	2	0	2502	0.0	23.9	-23.9
3	765 kV	SOLAPUR-RAICHUR	2	2062	1195	13.9	1.7	12.2
4	765 kV	WARDHA-NIZAMABAD	2	0	2807	0.0	30.4	-30.4
5	765 kV	WARORA-WARANGAL(NEW)	2	0	2702	0.0	28.4	-28.4
6	400 kV	KOLHAPUR-KUDGI	2	2123	0	37.0	0.0	37.0
7	220 kV	KOLHAPUR-CHIKODI	2	0	0	0.0	0.0	0.0
8	220 kV	PONDA-AMBEWADI	1	0	1	0.0	0.0	0.0
9	220 kV	XELDEM-AMBEWADI	1	1	0	0.0	0.0	0.0
WR-SR						63.4	84.3	-20.9

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)	744	691	708	17.00	
	ER	400kV TALA-BINAGURI 1,2,4 (& 400kV MALBASE - BINAGURI i.e. BINAGURI RECEIPT (from TALA HEP 6*170MW)	825	674	713	17.11	
	ER	220kV CHUKHA-BIRPARA 1&2 (& 220kV MALBASE - BIRPARA) i.e. BIRPARA RECEIPT (from CHUKHA HEP 4*84MW)	59	-17	12	0.28	
	NER	132kV GELEPHU-SALAKATI	27	0	13	0.31	
	NER	132kV MOTANGA-RANGIA	66	0	21	0.50	
NEPAL	NR	NEPAL IMPORT (FROM UP)	-19	0	0	0.00	
	NR	132kV MAHENDRANAGAR-TANAKPUR(NHPC)	70	0	41	0.99	
	ER	NEPAL IMPORT (FROM BIHAR)	0	0	0	0.00	
	ER	400kV DHALKEBAR-MUZAFFARPUR 1&2	652	525	560	13.45	
BANGLADESH	ER	BHERAMARA B/B HVDC (B'DESH)	-950	-936	-945	-22.68	
	ER (Isolated from Indian Grid)	400kV GODDA_TPS-RAHANPUR (B'DESH) D/C	-1513	-356	-1033	-24.80	
	NER	132kV COMILLA-SURAJMANI NAGAR 1&2	-82	0	-75	-1.80	

CROSS BORDER EXCHANGE SCHEDULE

Date of Reporting: 03-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	22.59	0.00	0.00	0.00	0.00	0.00	0.00	0.00	22.59
Myanmar	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total Export	22.64	0.00	0.00	0.00	0.00	0.00	0.00	0.00	22.64

Import by India(in MU)

Country	GNA (ISGA/PPA)	T-GNA							TOTAL
		BILATERAL TOTAL	COLLECTIVE						
			IDAM			RTM			
			IEX	PXIL	HPX	IEX	PXIL	HPX	
Bhutan	31.67	0.00	1.04	0.00	0.00	0.07	0.00	0.00	32.78
Nepal	2.63	0.00	9.02	0.00	0.00	2.68	0.00	0.00	14.33
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	34.30	0.00	10.06	0.00	0.00	2.75	0.00	0.00	47.11

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	31.67	0.00	1.04	0.00	0.00	0.07	0.00	0.00	32.78
Nepal	2.58	0.00	9.02	0.00	0.00	2.68	0.00	0.00	14.28
Bangladesh	-22.59	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-22.59
Myanmar	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total Net	11.66	0.00	10.06	0.00	0.00	2.75	0.00	0.00	24.47