



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: 14-June-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 13.06.2024.

महोदय/Dear Sir,

आईईजीसी-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 13-जून-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 13-June-2024, is available at the NLDC website.

धन्यवाद,
Thanks

Report for previous day

Date of Reporting: 14-Jun-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)	78180	62036	46220	28733	3275	218444
Peak Shortage (MW)	64	0	0	0	0	64
Energy Met (MU)	1903	1502	1052	666	64	5188
Hydro Gen (MU)	329	41	50	37	28	486
Wind Gen (MU)	56	175	170	-	-	401
Solar Gen (MU)*	168.28	85.17	105.42	3.46	0.61	363
Energy Shortage (MU)	2.02	0.00	0.00	0.00	0.00	2.02
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	86548	68160	48237	31557	3288	234856
Time Of Maximum Demand Met	12:53	15:01	12:31	15:02	19:29	15:00

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	0.020	0.00	0.00	0.39	0.39	82.73	16.87

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	15438	0	277.2	140.9	-0.3	413	0.00
	Haryana	13081	0	273.4	203.9	-0.2	206	0.00
	Rajasthan	16815	0	365.9	106.5	1.9	418	1.42
	Delhi	7897	0	163.5	128.9	2.2	402	0.00
	UP	30032	0	655.6	334.1	0.0	408	0.60
	Uttarakhand	2822	0	61.6	35.1	0.4	210	0.00
	HP	1841	0	40.4	6.3	-0.3	209	0.00
	J&K(UT) & Ladakh(UT)	2571	0	52.7	27.2	0.2	457	0.00
	Chandigarh	443	0	8.6	8.4	0.2	36	0.00
Railways NR ISTS	196	0	4.1	3.8	0.3	46	0.00	
WR	Chhattisgarh	5358	0	120.8	61.3	-0.8	203	0.00
	Gujarat	24408	0	499.1	137.4	-1.6	1241	0.00
	MP	12344	0	269.5	143.4	-4.6	755	0.00
	Maharashtra	23686	0	539.0	186.8	-5.4	726	0.00
	Goa	686	0	13.8	13.8	-0.5	23	0.00
	DNHDDPDCL	1317	0	30.9	30.9	0.0	59	0.00
	AMNSIL	789	0	16.8	7.6	0.2	303	0.00
	BALCO	521	0	12.4	12.5	-0.1	520	0.00
SR	Andhra Pradesh	9721	0	208.4	48.8	-2.6	822	0.00
	Telangana	9453	0	195.6	82.4	0.0	631	0.00
	Karnataka	9737	0	184.0	40.7	-1.9	594	0.00
	Kerala	4212	0	84.3	57.5	1.1	280	0.00
	Tamil Nadu	17299	0	369.1	170.4	-3.3	816	0.00
	Puducherry	501	0	10.5	10.1	-0.3	55	0.00
ER	Bihar	7509	0	163.5	153.5	-1.4	379	0.00
	DVC	3505	0	78.4	-41.0	0.3	249	0.00
	Jharkhand	2059	0	49.2	40.3	0.2	248	0.00
	Odisha	6588	0	132.8	72.7	-0.3	625	0.00
	West Bengal	12045	0	240.7	115.3	-0.2	475	0.00
	Sikkim	91	0	1.6	1.5	0.1	39	0.00
Railways ER ISTS	13	0	0.1	0.1	0.0	0	0.00	
NER	Arunachal Pradesh	169	0	3.2	3.1	0.0	27	0.00
	Assam	2311	0	42.1	34.5	-0.1	146	0.00
	Manipur	215	0	3.3	3.5	-0.2	47	0.00
	Meghalaya	324	0	5.8	0.3	-0.1	111	0.00
	Mizoram	108	0	1.8	1.6	-0.4	8	0.00
	Nagaland	184	0	3.0	3.1	-0.1	10	0.00
Tripura	320	0	5.0	4.4	0.0	54	0.00	

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

	Bhutan	Nepal	Bangladesh	Godda -> Bangladesh
Actual (MU)	15.7	1.3	-23.3	-32.5
Day Peak (MW)	1278.4	267.7	-1037.0	-1480.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	446.1	-430.5	-16.7	-4.3	5.5	0.0
Actual(MU)	426.1	-440.9	6.8	-8.6	6.3	-10.2
O/D/U/D(MU)	-20.0	-10.4	23.6	-4.2	0.8	-10.2

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL	% Share
Central Sector	2877	3248	4952	3606	301	14984	47
State Sector	2876	6659	4598	2484	119	16736	53
Total	5753	9907	9550	6090	420	31719	100

G. Sourcewise generation (Gross) (MU)

	NR	WR	SR	ER	NER	All India	% Share
Coal	891	1605	658	715	11	3879	69
Lignite	26	12	52	0	0	90	2
Hydro	329	41	50	37	28	486	9
Nuclear	30	60	46	0	0	136	2
Gas, Naptha & Diesel	61	108	10	0	23	202	4
RES (Wind, Solar, Biomass & Others)	232	264	299	5	1	800	14
Total	1568	2090	1114	757	63	5592	100

Share of RES in total generation (%)	14.78	12.61	26.80	0.67	0.98	14.30
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	37.66	17.46	35.42	5.61	45.31	25.41

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.012
Based on State Max Demands	1.050

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

	Max Demand Met(MW)	Time	Shortage(MW)
Solar hr	234856	15:00	200
Non-Solar hr	225907	22:29	563

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: 14-Jun-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	0	0.0	0.0	0.0
2	HVDC	PUSAULI B/B	-	2	0	0.0	0.0	0.0
3	765 kV	GAYA-VARANASI	2	481	421	0.4	0.0	0.4
4	765 kV	SASARAM-FATEHPUR	1	0	327	0.0	4.1	-4.1
5	765 kV	GAYA-BALIA	1	0	602	0.0	10.1	-10.1
6	400 kV	PUSAULI-VARANASI	1	53	35	0.2	0.0	0.2
7	400 kV	PUSAULI-ALLAHABAD	1	121	43	0.8	0.0	0.8
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	68	771	0.0	8.3	-8.3
9	400 kV	PATNA-BALIA	2	15	685	0.0	8.1	-8.1
10	400 kV	NAUBATPUR-BALIA	2	55	193	0.0	1.7	-1.7
11	400 kV	BIHARSHARIFF-BALIA	2	287	37	2.9	0.0	2.9
12	400 kV	MOTIHARI-GORAKHPUR	2	0	524	0.0	7.6	-7.6
13	400 kV	BIHARSHARIFF-VARANASI	2	0	0	0.0	0.0	0.0
14	220 kV	SAHUPURI-KARAMNANA	1	0	55	0.0	0.6	-0.6
15	132 kV	NAGAR UNTARI-RIHAND	1	0	0	0.1	0.0	0.1
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						4.9	40.4	-35.4
Import/Export of ER (With WR)								
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	464	1161	0.0	9.6	-9.6
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	2524	0	41.8	0.0	41.8
3	765 kV	JHARSUGUDA-DURG	2	98	353	0.0	1.9	-1.9
4	400 kV	JHARSUGUDA-RAIGARH	4	617	0	7.1	0.0	7.1
5	400 kV	RANCHI-SIPAT	2	630	0	10.0	0.0	10.0
6	220 kV	BUDHIPADAR-RAIGARH	1	3	152	0.0	1.4	-1.4
7	220 kV	BUDHIPADAR-KORBA	2	85	42	0.6	0.0	0.6
ER-WR						59.5	12.9	46.6
Import/Export of ER (With SR)								
1	HVDC	JEYPORE-GAZUWAKA B/B	2	402	201	7.9	0.0	7.9
2	HVDC	TALCHER-KOLAR BIPOLE	2	0	1699	0.0	40.9	-40.9
3	765 kV	ANGUL-SRIKAKULAM	2	0	2309	0.0	33.3	-33.3
4	400 kV	TALCHER-I/C	2	0	491	0.0	7.4	-7.4
5	220 kV	BALIMELA-UPPER-SILERRU	1	0	0	0.0	0.0	0.0
ER-SR						7.9	74.2	-66.3
Import/Export of ER (With NER)								
1	400 kV	BINAGURI-BONGAIGAON	2	457	0	6.5	0.0	6.5
2	400 kV	ALIPURDUAR-BONGAIGAON	2	579	0	8.1	0.0	8.1
3	220 kV	ALIPURDUAR-SALAKATI	2	88	0	1.1	0.0	1.1
ER-NER						15.6	0.0	15.6
Import/Export of NER (With NR)								
1	HVDC	BISWANATH CHARIALI-AGRA	2	955	0	21.1	0.0	21.1
NER-NR						21.1	0.0	21.1
Import/Export of WR (With NR)								
1	HVDC	CHAMPA-KIRUKSHETRA	2	0	6072	0.0	128.4	-128.4
2	HVDC	VINDHYACHAL B/B	-	0	254	0.0	9.5	-9.5
3	HVDC	MUNDRA-MOHINDERGARH	2	0	1663	0.0	42.4	-42.4
4	765 kV	GWALIOR-AGRA	2	0	3122	0.0	59.5	-59.5
5	765 kV	GWALIOR-PHAGI	2	692	1389	2.3	15.4	-13.2
6	765 kV	JABALPUR-ORAI	2	0	1315	0.0	44.9	-44.9
7	765 kV	GWALIOR-ORAI	1	595	0	8.6	0.0	8.6
8	765 kV	SATNA-ORAI	1	0	1170	0.0	24.1	-24.1
9	765 kV	BANASKANTHA-CHITTOGARH	2	0	2099	0.0	24.6	-24.6
10	765 kV	VINDHYACHAL-VARANASI	2	0	3983	0.0	80.5	-80.5
11	400 kV	ZERDA-KANKROLI	1	54	297	0.1	2.4	-2.3
12	400 kV	ZERDA -BHINMAL	1	54	295	0.1	2.4	-2.2
13	400 kV	VINDHYACHAL -RIHAND	1	961	0	21.3	0.0	21.3
14	400 kV	RAPP-SHUJALPUR	2	195	553	0.5	5.7	-5.2
15	400 kV	NEEMUCH-Chittorgarh	2	299	564	1.0	5.6	-4.5
16	220 kV	BHANPURA-RANPUR	1	0	121	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	45	20	0.3	0.1	0.2
19	220 kV	MALANPUR-AURAIYA	1	27	33	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						34.3	450.3	-416.0
Import/Export of WR (With SR)								
1	HVDC	BHADRAWATI B/B	-	301	0	7.2	0.0	7.2
2	HVDC	RAIGARH-PUGALUR	2	0	1002	0.0	21.1	-21.1
3	765 kV	SOLAPUR-RAICHUR	2	2289	378	25.5	0.3	25.2
4	765 kV	WARDHA-NIZAMABAD	2	303	1573	0.4	10.5	-10.1
5	765 kV	WARORA-WARANGAL(NEW)	2	298	1884	0.2	14.2	-14.0
6	400 kV	KOLHAPUR-KUDGI	2	2030	0	33.3	0.0	33.3
7	220 kV	KOLHAPUR-CHIKODI	2	0	0	0.0	0.0	0.0
8	220 kV	PONDA-AMBEWADI	1	0	65	1.2	0.0	1.2
9	220 kV	XELDEM-AMBEWADI	1	0	115	2.1	0.0	2.1
WR-SR						69.9	46.1	23.8

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)	684	233	495	11.88	
	ER	400kV TALA-BINAGURI 1,2,4 (& 400kV MALBASE - BINAGURI i.e. BINAGURI RECEIPT (from TALA HEP 6*170MW)	483	-223	145	3.48	
	ER	220kV CHUKHA-BIRPARA 1&2 (& 220kV MALBASE - BIRPARA) i.e. BIRPARA RECEIPT (from CHUKHA HEP 4*84MW)	-218	32	-45	-1.07	
	NER	132kV GELEPHU-SALAKATI	28	0	10	0.23	
	NER	132kV MOTANGA-RANGIA	52	25	48	1.16	
NEPAL	NR	NEPAL IMPORT (FROM UP)	-74	0	0	0.00	
	NR	132kV MAHENDRANAGAR-TANAKPUR(NHPC)	-74	0	-42	-1.02	
	ER	NEPAL IMPORT (FROM BIHAR)	-210	-84	-93	-2.23	
	ER	400kV DHALKEBAR-MUZAFFARPUR 1&2	478	38	190	4.56	
BANGLADESH	ER	BHERAMARA B/B HVDC (B'DESH)	-945	-799	-903	-21.67	
	ER (Isolated from Indian Grid)	400kV GODDA_TPS-RAHANPUR (B'DESH) D/C	-1480	-1106	-1355	-32.52	
	NER	132kV COMILLA-SURAJMANI NAGAR 1&2	-92	0	-69	-1.66	

CROSS BORDER EXCHANGE SCHEDULE

Date of Reporting: 14-Jun-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	0.22	0.00	0.60	0.00	0.00	0.63	0.00	0.00	1.45
Bangladesh	21.68	0.00	0.00	0.00	0.00	0.00	0.00	0.00	21.68
Myanmar	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total Export	21.90	0.00	0.60	0.00	0.00	0.63	0.00	0.00	23.13

Import by India(in MU)

Country	GNA (ISGA/PPA)	T-GNA							TOTAL
		BILATERAL TOTAL	COLLECTIVE						
			IDAM			RTM			
			IEX	PXIL	HPX	IEX	PXIL	HPX	
Bhutan	13.69	0.00	0.16	0.00	0.00	0.00	0.00	0.00	13.85
Nepal	2.63	0.00	0.00	0.00	0.00	1.95	0.00	0.00	4.58
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	16.32	0.00	0.16	0.00	0.00	1.95	0.00	0.00	18.43

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	13.69	0.00	0.16	0.00	0.00	0.00	0.00	0.00	13.85
Nepal	2.41	0.00	-0.60	0.00	0.00	1.32	0.00	0.00	3.13
Bangladesh	-21.68	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-21.68
Myanmar	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total Net	-5.58	0.00	-0.44	0.00	0.00	1.32	0.00	0.00	-4.70