



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: 19-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 18.06.2024.

महोदय/Dear Sir,

आईईजीसी-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 18-जून-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 18-June-2024, is available at the NLDC website.

धन्यवाद,
Thanks

Report for previous day

Date of Reporting: 19-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)	81306	60291	47113	28475	2737	219922
Peak Shortage (MW)	753	0	0	0	0	753
Energy Met (MU)	1990	1479	1128	664	53	5314
Hydro Gen (MU)	369	41	50	52	32	543
Wind Gen (MU)	64	178	165	-	-	408
Solar Gen (MU)*	173.58	85.08	124.29	3.28	0.26	386
Energy Shortage (MU)	18.74	0.00	0.00	0.63	0.00	19.37
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	89526	66493	52191	30893	2746	239329
Time Of Maximum Demand Met	15:45	14:44	14:43	00:01	19:17	14:44

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	0.031	0.00	0.00	1.85	1.85	71.61	26.54

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	15860	0	339.3	192.7	1.3	391	0.00
	Haryana	13373	0	288.0	201.1	2.9	361	2.99
	Rajasthan	17689	0	378.4	101.7	2.0	513	9.12
	Delhi	8568	0	177.7	146.1	2.8	337	0.00
	UP	28752	488	636.8	347.0	-2.1	464	5.04
	Uttarakhand	2739	75	60.5	31.7	-0.4	155	0.37
	HP	1745	0	39.0	2.5	-0.7	48	0.00
	J&K(UT) & Ladakh(UT)	2729	0	57.3	29.4	2.9	784	1.22
	Chandigarh	440	0	9.1	8.8	0.3	71	0.00
Railways NR ISTS	225	0	4.3	3.3	1.0	116	0.00	
WR	Chhattisgarh	5346	0	117.1	63.8	-1.6	672	0.00
	Gujarat	23826	0	492.9	147.3	-4.1	915	0.00
	MP	11923	0	255.2	130.0	-5.9	427	0.00
	Maharashtra	23941	0	537.4	182.2	-5.2	644	0.00
	Goa	693	0	14.8	14.1	0.2	35	0.00
	DNHDDPDCL	1318	0	30.2	30.3	-0.1	145	0.00
	AMNSIL	820	0	18.6	8.5	0.7	324	0.00
	BALCO	525	0	12.5	12.6	-0.1	6	0.00
SR	Andhra Pradesh	10787	0	222.0	62.0	-1.3	496	0.00
	Telangana	10359	0	215.2	111.1	0.7	640	0.00
	Karnataka	11711	0	226.5	53.4	-4.0	655	0.00
	Kerala	4160	0	87.1	55.6	1.9	452	0.00
	Tamil Nadu	17039	0	367.0	174.4	-6.5	956	0.00
	Puducherry	468	0	10.5	10.4	-0.6	27	0.00
ER	Bihar	7259	0	154.5	148.0	-4.9	396	0.16
	DVC	3487	0	76.9	-44.6	0.5	420	0.00
	Jharkhand	2279	0	48.9	39.3	1.3	414	0.47
	Odisha	6399	0	133.5	55.1	-1.6	519	0.00
	West Bengal	11880	0	248.4	105.8	-1.7	214	0.00
	Sikkim	83	0	1.4	1.6	-0.2	18	0.00
Railways ER ISTS	17	0	0.2	0.2	-0.1	6	0.00	
NER	Arunachal Pradesh	149	0	3.9	2.8	0.8	16	0.00
	Assam	1757	0	31.4	23.5	0.1	107	0.00
	Manipur	198	0	3.2	3.2	-0.1	22	0.00
	Meghalaya	342	0	5.7	0.0	0.1	56	0.00
	Mizoram	105	0	1.7	1.4	-0.4	1	0.00
	Nagaland	153	0	2.8	2.8	0.0	20	0.00
Tripura	208	0	4.7	5.0	-0.3	56	0.00	

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

	Bhutan	Nepal	Bangladesh	Godda -> Bangladesh
Actual (MU)	22.7	6.5	-24.3	-22.3
Day Peak (MW)	1209.0	397.0	-1031.0	-1322.3

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	461.7	-432.8	35.4	-53.9	-10.4	0.0
Actual(MU)	453.0	-456.7	52.6	-49.4	-10.8	-11.4
O/D/U/D(MU)	-8.7	-23.9	17.3	4.4	-0.5	-11.4

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL	% Share
Central Sector	2676	5425	4892	3141	255	16388	49
State Sector	3371	7123	5148	1564	119	17325	51
Total	6047	12548	10040	4705	374	33713	100

G. Sourcewise generation (Gross) (MU)

	NR	WR	SR	ER	NER	All India	% Share
Coal	906	1605	673	740	14	3938	69
Lignite	29	16	55	0	0	100	2
Hydro	369	41	50	52	32	543	9
Nuclear	29	60	51	0	0	140	2
Gas, Naptha & Diesel	65	92	8	0	24	188	3
RES (Wind, Solar, Biomass & Others)	246	265	312	4	0	828	14
Total	1643	2078	1149	796	70	5737	100

Share of RES in total generation (%)	14.97	12.74	27.16	0.55	0.39	14.43
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	39.14	17.58	36.02	7.07	45.67	26.33

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.010
Based on State Max Demands	1.041

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

	Max Demand Met(MW)	Time	Shortage(MW)
Solar hr	239329	14:44	0
Non-Solar hr	224444	0:00	4076

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: 19-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	95	0.0	1.2	-1.2
3	765 kV	GAYA-VARANASI	2	526	654	0.0	3.5	-3.5
4	765 kV	SASARAM-FATEHPUR	1	0	440	0.0	6.7	-6.7
5	765 kV	GAYA-BALIA	1	0	560	0.0	10.8	-10.8
6	400 kV	PUSAULI-VARANASI	1	51	64	0.0	0.5	-0.5
7	400 kV	PUSAULI-ALLAHABAD	1	84	74	0.0	0.4	-0.4
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	0	859	0.0	14.8	-14.8
9	400 kV	PATNA-BALIA	2	0	775	0.0	9.9	-9.9
10	400 kV	NAUBATPUR-BALIA	2	29	229	0.0	3.3	-3.3
11	400 kV	BIHARSHARIFF-BALIA	2	203	135	0.0	0.1	-0.1
12	400 kV	MOTIHARI-GORAKHPUR	2	0	559	0.0	9.9	-9.9
13	400 kV	BIHARSHARIFF-VARANASI	2	123	269	0.0	2.7	-2.7
14	220 kV	SAHUPURI-KARAMNANA	1	1	55	0.0	0.8	-0.8
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						0.6	64.6	-64.0
Import/Export of ER (With WR)								
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	196	1001	0.0	8.8	-8.8
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	2352	0	39.4	0.0	39.4
3	765 kV	JHARSUGUDA-DURG	2	0	525	0.0	6.2	-6.2
4	400 kV	JHARSUGUDA-RAIGARH	4	461	78	5.3	0.0	5.3
5	400 kV	RANCHI-SIPAT	2	605	0	9.6	0.0	9.6
6	220 kV	BUDHIPADAR-RAIGARH	1	0	192	0.0	2.9	-2.9
7	220 kV	BUDHIPADAR-KORBA	2	38	142	0.0	0.4	-0.4
ER-WR						54.3	18.3	36.0
Import/Export of ER (With SR)								
1	HVDC	JEYPORE-GAZUWAKA B/B	2	407	0	6.8	0.0	6.8
2	HVDC	TALCHER-KOLAR BIPOLE	2	0	1694	0.0	40.8	-40.8
3	765 kV	ANGUL-SRIKAKULAM	2	0	2413	0.0	46.5	-46.5
4	400 kV	TALCHER-I/C	2	16	541	0.0	6.7	-6.7
5	220 kV	BALIMELA-UPPER-SILERRU	1	0	0	0.0	0.0	0.0
ER-SR						6.8	87.3	-80.5
Import/Export of ER (With NER)								
1	400 kV	BINAGURI-BONGAIGAON	2	572	0	9.4	0.0	9.4
2	400 kV	ALIPURDUAR-BONGAIGAON	2	813	0	13.0	0.0	13.0
3	220 kV	ALIPURDUAR-SALAKATI	2	125	0	2.2	0.0	2.2
ER-NER						24.6	0.0	24.6
Import/Export of NER (With NR)								
1	HVDC	BISWANATH CHARIAL-AGRA	2	459	0	11.9	0.0	11.9
NER-NR						11.9	0.0	11.9
Import/Export of WR (With NR)								
1	HVDC	CHAMPA-KIRUKSHETRA	2	0	6045	0.0	114.3	-114.3
2	HVDC	VINDHYACHAL B/B	-	0	496	0.0	10.3	-10.3
3	HVDC	MUNDRA-MOHINDERGARH	2	0	1661	0.0	42.4	-42.4
4	765 kV	GWALIOR-AGRA	2	0	3210	0.0	62.1	-62.1
5	765 kV	GWALIOR-PHAGI	2	534	1548	1.7	18.9	-17.2
6	765 kV	JABALPUR-ORAI	2	0	1264	0.0	47.9	-47.9
7	765 kV	GWALIOR-ORAI	1	609	0	8.3	0.0	8.3
8	765 kV	SATNA-ORAI	1	0	1210	0.0	26.2	-26.2
9	765 kV	BANASKANTHA-CHITTOGARH	2	325	1907	0.4	19.5	-19.1
10	765 kV	VINDHYACHAL-VARANASI	2	0	3816	0.0	76.1	-76.1
11	400 kV	ZERDA-KANKROLI	1	164	260	0.7	2.1	-1.4
12	400 kV	ZERDA-BHINMAL	1	164	259	0.7	2.1	-1.4
13	400 kV	VINDHYACHAL-RIHAND	1	973	0	21.5	0.0	21.5
14	400 kV	RAPP-SHUALPUR	2	182	541	0.5	6.9	-6.3
15	400 kV	NEEMUCH-Chittorgarh	2	276	549	1.0	6.4	-5.4
16	220 kV	BHANPURA-RANPUR	1	0	140	0.0	2.1	-2.1
17	220 kV	BHANPURA-MORAK	1	0	30	0.0	2.8	-2.8
18	220 kV	MEHGAON-AURAIYA	1	25	36	0.1	0.2	-0.1
19	220 kV	MALANPUR-AURAIYA	1	9	45	0.0	0.4	-0.4
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						35.1	440.7	-405.7
Import/Export of WR (With SR)								
1	HVDC	BHADRAWATI B/B	-	998	0	20.5	0.0	20.5
2	HVDC	RAIGARH-PUGALUR	2	0	1002	0.0	17.9	-17.9
3	765 kV	SOLAPUR-RAICHUR	2	1458	508	13.5	1.0	12.5
4	765 kV	WARDHA-NIZAMABAD	2	0	1817	0.0	28.8	-28.8
5	765 kV	WARORA-WARANGAL(NEW)	2	0	1865	0.0	29.1	-29.1
6	400 kV	KOLHAPUR-KUDGI	2	1635	0	30.3	0.0	30.3
7	220 kV	KOLHAPUR-CHIKODI	2	0	0	0.0	0.0	0.0
8	220 kV	PONDA-AMBEWADI	1	0	69	1.7	0.0	1.7
9	220 kV	XELDEM-AMBEWADI	1	0	104	2.0	0.0	2.0
WR-SR						68.0	76.8	-8.8

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)	601	291	436	10.46	
	ER	400kV TALA-BINAGURI 1,2,4 (& 400kV MALBASE - BINAGURI i.e. BINAGURI RECEIPT (from TALA HEP 6*170MW)	629	348	487	11.69	
	ER	220kV CHUKHA-BIRPARA 1&2 (& 220kV MALBASE - BIRPARA) i.e. BIRPARA RECEIPT (from CHUKHA HEP 4*84MW)	-83	0	-8	-0.20	
	NER	132kV GELEPHU-SALAKATI	8	-22	0	0.01	
	NER	132kV MOTANGA-RANGIA	41	0	33	0.78	
NEPAL	NR	NEPAL IMPORT (FROM UP)	0	0	0	-0.90	
	NR	132kV MAHENDRANAGAR-TANAKPUR(NHPC)	0	0	0	-1.01	
	ER	NEPAL IMPORT (FROM BIHAR)	0	0	0	0.00	
	ER	400kV DHALKEBAR-MUZAFFARPUR 1&2	469	252	350	8.39	
BANGLADESH	ER	BHERAMARA B/B HVDC (B'DESH)	-941	-937	-941	-22.58	
	ER (Isolated from Indian Grid)	400kV GODDA_TPS-RAHANPUR (B'DESH) D/C	-1322	-722	-928	-22.28	
	NER	132kV COMILLA-SURAJMANI NAGAR 1&2	-90	0	-72	-1.73	

CROSS BORDER EXCHANGE SCHEDULE

Date of Reporting: 19-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	0.12	0.00	0.59	0.00	0.00	0.00	0.00	0.00	0.71
Bangladesh	22.61	0.00	0.00	0.00	0.00	0.00	0.00	0.00	22.61
Myanmar	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total Export	22.73	0.00	0.59	0.00	0.00	0.00	0.00	0.00	23.32

Import by India(in MU)

Country	GNA (ISGA/PPA)	T-GNA							TOTAL
		BILATERAL TOTAL	COLLECTIVE						
			IDAM			RTM			
			IEX	PXIL	HPX	IEX	PXIL	HPX	
Bhutan	18.82	0.00	0.54	0.00	0.00	0.08	0.00	0.00	19.44
Nepal	2.63	0.00	3.16	0.00	0.00	1.58	0.00	0.00	7.37
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	21.45	0.00	3.70	0.00	0.00	1.66	0.00	0.00	26.81

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	18.82	0.00	0.54	0.00	0.00	0.08	0.00	0.00	19.44
Nepal	2.51	0.00	2.57	0.00	0.00	1.58	0.00	0.00	6.66
Bangladesh	-22.61	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-22.61
Myanmar	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total Net	-1.28	0.00	3.11	0.00	0.00	1.66	0.00	0.00	3.49