



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: 23-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 22.06.2024.

महोदय/Dear Sir,

आईईजीसी-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 22-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 22-June-2024, is available at the NLDC website.

धन्यवाद,
Thanks

Report for previous day

Date of Reporting: 23-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)	78192	61232	46393	27843	3422	217082
Peak Shortage (MW)	624	52	0	557	0	1233
Energy Met (MU)	1829	1453	1099	623	66	5070
Hydro Gen (MU)	331	46	57	54	33	522
Wind Gen (MU)	17	102	198	-	-	317
Solar Gen (MU)*	138.88	79.80	109.95	2.44	1.00	332
Energy Shortage (MU)	7.13	0.17	0.00	2.09	0.00	9.39
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	82051	64269	50921	29643	3466	226637
Time Of Maximum Demand Met	14:46	15:04	14:59	23:24	19:00	14:59

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	0.040	0.00	0.42	9.55	9.96	73.52	16.51

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	15015	0	323.2	187.0	-0.8	187	0.00
	Haryana	12721	0	268.5	189.8	-1.7	263	0.00
	Rajasthan	15596	0	331.2	109.6	1.7	477	6.13
	Delhi	6900	0	142.5	116.0	-1.2	254	0.00
	UP	27697	0	599.0	315.0	-0.2	781	0.30
	Uttarakhand	2669	0	58.1	30.7	1.3	194	0.34
	HP	1815	0	39.5	7.7	0.4	104	0.00
	J&K(UT) & Ladakh(UT)	2573	0	55.7	32.0	-2.3	166	0.36
	Chandigarh	372	0	7.5	7.3	0.2	65	0.00
Railways NR ISTS	209	0	4.2	3.7	0.5	94	0.00	
WR	Chhattisgarh	4657	0	103.1	53.2	-2.6	294	0.00
	Gujarat	24288	0	494.8	175.9	-1.1	664	0.00
	MP	10855	0	239.5	123.2	-4.9	341	0.00
	Maharashtra	23846	118	541.8	163.9	2.4	619	0.17
	Goa	692	0	14.3	13.8	0.2	52	0.00
	DNHDDPDCL	1338	0	30.9	30.9	0.0	44	0.00
	AMNSIL	701	0	16.3	3.6	-0.5	163	0.00
	BALCO	524	0	12.5	12.6	-0.1	6	0.00
SR	Andhra Pradesh	10306	0	215.9	50.8	-0.2	538	0.00
	Telangana	9698	0	206.1	108.3	-1.6	365	0.00
	Karnataka	12222	0	229.1	44.4	-0.1	728	0.00
	Kerala	3872	0	78.8	52.9	1.1	471	0.00
	Tamil Nadu	17043	0	358.6	151.0	-3.1	628	0.00
	Puducherry	458	0	10.8	10.5	-0.3	26	0.00
ER	Bihar	6973	269	148.6	141.4	-0.1	436	1.18
	DVC	3625	0	75.3	-38.2	-0.1	268	0.00
	Jharkhand	2204	0	46.5	32.4	1.1	308	0.91
	Odisha	5797	0	125.2	45.2	-0.6	412	0.00
	West Bengal	11001	0	225.8	87.0	-1.0	316	0.00
	Sikkim	78	0	1.3	1.6	-0.3	6	0.00
Railways ER ISTS	18	0	0.2	0.2	0.0	1	0.00	
NER	Arunachal Pradesh	165	0	2.9	2.9	-0.3	34	0.00
	Assam	2349	0	43.6	35.4	-0.4	168	0.00
	Manipur	220	0	3.4	3.4	0.0	30	0.00
	Meghalaya	312	0	5.4	-1.4	-0.1	71	0.00
	Mizoram	114	0	2.0	1.2	-0.2	41	0.00
	Nagaland	154	0	2.9	2.8	-0.2	16	0.00
Tripura	321	0	6.0	5.9	0.2	42	0.00	

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

	Bhutan	Nepal	Bangladesh	Godda -> Bangladesh
Actual (MU)	22.6	11.1	-24.4	-15.7
Day Peak (MW)	1214.2	608.3	-1029.0	-764.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	446.0	-368.5	-4.0	-76.4	2.8	0.0
Actual(MU)	440.3	-370.2	-4.7	-75.0	-1.7	-11.3
O/D/U/D(MU)	-5.7	-1.7	-0.8	1.5	-4.5	-11.3

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL	% Share
Central Sector	2401	10178	5178	4106	285	22147	56
State Sector	3346	6987	5038	1854	119	17343	44
Total	5746	17164	10216	5960	404	39490	100

G. Sourcewise generation (Gross) (MU)

	NR	WR	SR	ER	NER	All India	% Share
Coal	882	1590	681	713	16	3883	68
Lignite	26	19	51	0	0	96	2
Hydro	331	46	57	54	33	522	9
Nuclear	29	322	51	0	0	402	7
Gas, Naptha & Diesel	58	49	5	0	24	136	2
RES (Wind, Solar, Biomass & Others)	164	185	334	4	1	688	12
Total	1491	2211	1180	771	74	5727	100

Share of RES in total generation (%)	11.02	8.35	28.31	0.50	1.36	12.01
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	35.20	24.98	37.53	7.54	45.72	28.15

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.016
Based on State Max Demands	1.056

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

	Max Demand Met(MW)	Time	Shortage(MW)
Solar hr	226637	14:59	0
Non-Solar hr	219508	22:43	2552

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: 23-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	-	0	97	0.0	2.4	-2.4
3	765 kV	GAYA-VARANASI	2	215	637	0.0	6.9	-6.9
4	765 kV	SASARAM-FATEHPUR	1	0	465	0.0	8.0	-8.0
5	765 kV	GAYA-BALIA	1	0	702	0.0	12.4	-12.4
6	400 kV	PUSAULI-VARANASI	1	12	48	0.0	0.4	-0.4
7	400 kV	PUSAULI-ALLAHABAD	1	0	109	0.0	2.0	-2.0
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	0	932	0.0	15.8	-15.8
9	400 kV	PATNA-BALIA	2	0	701	0.0	11.6	-11.6
10	400 kV	NAUBATPUR-BALIA	2	0	207	0.0	3.0	-3.0
11	400 kV	BIHARSHARIF-BALIA	2	72	209	0.0	2.1	-2.1
12	400 kV	MOTIHARI-GORAKHPUR	2	0	529	0.0	9.5	-9.5
13	400 kV	BIHARSHARIF-VARANASI	2	0	321	0.0	0.0	0.0
14	220 kV	SAHUPURI-KARAMNANA	1	11	59	0.0	0.9	-0.9
15	132 kV	NAGAR UNTARI-RIHAND	1	0	0	0.1	0.0	0.1
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						0.7	75.0	-74.3
Import/Export of ER (With WR)								
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	125	1437	0.0	13.9	-13.9
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	2244	0	37.5	0.0	37.5
3	765 kV	JHARSUGUDA-DURG	2	0	508	0.0	8.7	-8.7
4	400 kV	JHARSUGUDA-RAIGARH	4	478	43	4.9	0.0	4.9
5	400 kV	RANCHI-SIPAT	2	606	0	9.8	0.0	9.8
6	220 kV	BUDHIPADAR-RAIGARH	1	0	173	0.0	2.5	-2.5
7	220 kV	BUDHIPADAR-KORBA	2	34	130	0.0	1.4	-1.4
ER-WR						52.2	26.4	25.8
Import/Export of ER (With SR)								
1	HVDC	JEYPORE-GAZUWAKA B/B	2	209	0	5.0	0.0	5.0
2	HVDC	TALCHER-KOLAR BIPOLE	2	0	1703	0.0	40.9	-40.9
3	765 kV	ANGUL-SRIKAKULAM	2	0	2193	0.0	38.3	-38.3
4	400 kV	TALCHER-I/C	2	137	319	0.0	0.5	-0.5
5	220 kV	BALIMELA-UPPER-SILERRU	1	0	0	0.0	0.0	0.0
ER-SR						5.0	79.2	-74.2
Import/Export of ER (With NER)								
1	400 kV	BINAGURI-BONGAIGAON	2	381	0	4.6	0.0	4.6
2	400 kV	ALIPURDUAR-BONGAIGAON	2	474	0	5.5	0.0	5.5
3	220 kV	ALIPURDUAR-SALAKATI	2	91	3	1.0	0.0	1.0
ER-NER						11.1	0.0	11.1
Import/Export of NER (With NR)								
1	HVDC	BISWANATH CHARIAL-AGRA	2	370	0	8.2	0.0	8.2
NER-NR						8.2	0.0	8.2
Import/Export of WR (With NR)								
1	HVDC	CHAMPA-KIRUKSHETRA	2	0	6053	0.0	84.0	-84.0
2	HVDC	VINDHYACHAL B/B	-	244	250	0.9	5.0	-4.1
3	HVDC	MUNDRA-MOHINDERGARH	2	0	1212	0.0	30.3	-30.3
4	765 kV	GWALIOR-AGRA	2	0	3406	0.0	64.5	-64.5
5	765 kV	GWALIOR-PHAGI	2	0	1843	0.0	30.9	-30.9
6	765 kV	JABALPUR-ORAI	2	0	1516	0.0	55.1	-55.1
7	765 kV	GWALIOR-ORAI	1	644	0	11.3	0.0	11.3
8	765 kV	SATNA-ORAI	1	0	1301	0.0	27.6	-27.6
9	765 kV	BANASKANTHA-CHITTOGARH	2	806	1414	1.9	11.3	-9.4
10	765 kV	VINDHYACHAL-VARANASI	2	0	4305	0.0	81.3	-81.3
11	400 kV	ZERDA-KANKROLI	1	180	257	0.7	1.8	-1.1
12	400 kV	ZERDA-BHINMAL	1	180	255	0.7	1.8	-1.1
13	400 kV	VINDHYACHAL-RIHAND	1	966	0	21.4	0.0	21.4
14	400 kV	RAPP-SHUALPUR	2	0	674	0.0	9.6	-9.6
15	400 kV	NEEMUCH-Chittorgarh	2	61	626	0.0	9.1	-9.0
16	220 kV	BHANPURA-RANPUR	1	0	79	0.0	1.2	-1.2
17	220 kV	BHANPURA-MORAK	1	0	30	0.0	2.2	-2.2
18	220 kV	MEHGAON-AURAIYA	1	35	32	0.1	0.2	-0.1
19	220 kV	MALANPUR-AURAIYA	1	13	45	0.0	0.5	-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						37.0	416.2	-379.2
Import/Export of WR (With SR)								
1	HVDC	BHADRAWATI B/B	-	997	0	14.2	0.0	14.2
2	HVDC	RAIGARH-PUGALUR	2	0	1003	0.0	15.9	-15.9
3	765 kV	SOLAPUR-RAICHUR	2	2486	0	29.9	0.0	29.9
4	765 kV	WARDHA-NIZAMABAD	2	72	1508	0.0	17.3	-17.3
5	765 kV	WARORA-WARANGAL(NEW)	2	150	1510	0.1	16.2	-16.1
6	400 kV	KOLHAPUR-KUDGI	2	2117	0	38.7	0.0	38.7
7	220 kV	KOLHAPUR-CHIKODI	2	0	0	0.0	0.0	0.0
8	220 kV	PONDA-AMBEWADI	1	0	60	0.6	0.0	0.6
9	220 kV	XELDEM-AMBEWADI	1	0	105	2.0	0.0	2.0
WR-SR						85.5	49.4	36.1

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)	562	346	478	11.47	
	ER	400kV TALA-BINAGURI 1,2,4 (& 400kV MALBASE - BINAGURI i.e. BINAGURI RECEIPT (from TALA HEP 6*170MW)	549	334	426	10.22	
	ER	220kV CHUKHA-BIRPARA 1&2 (& 220kV MALBASE - BIRPARA) i.e. BIRPARA RECEIPT (from CHUKHA HEP 4*84MW)	-45	8	-21	-0.51	
	NER	132kV GELEPHU-SALAKATI	15	2	8	0.19	
	NER	132kV MOTANGA-RANGIA	72	38	52	1.25	
NEPAL	NR	NEPAL IMPORT (FROM UP)	-43	0	0	0.00	
	NR	132kV MAHENDRANAGAR-TANAKPUR(NHPC)	38	0	6	0.15	
	ER	NEPAL IMPORT (FROM BIHAR)	0	0	0	0.00	
	ER	400kV DHALKEBAR-MUZAFFARPUR 1&2	570	228	457	10.97	
BANGLADESH	ER	BHERAMARA B/B HVDC (B'DESH)	-941	-939	-940	-22.56	
	ER (Isolated from Indian Grid)	400kV GODDA_TPS-RAHANPUR (B'DESH) D/C	-764	-455	-655	-15.71	
	NER	132kV COMILLA-SURAJMANI NAGAR 1&2	-88	0	-78	-1.86	

CROSS BORDER EXCHANGE SCHEDULE

Date of Reporting: 23-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	0.00	0.00	0.00	0.00	0.00	0.00	0.20	0.00	0.00
Bangladesh	22.51	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 Export	22.51	0.00	0.00	0.00	0.00	0.00	0.20	0.00	0.00

Import by India(in MU)

Country	GNA (ISGA/PPA)	T-GNA							TOTAL
		BILATERAL TOTAL	COLLECTIVE						
			IDAM			RTM			
			IEX	PXIL	HPX	IEX	PXIL	HPX	
Bhutan	19.46	0.00	0.40	0.00	0.00	0.08	0.00	0.00	19.94
Nepal	2.63	0.00	8.92	0.00	0.00	0.12	0.00	0.00	11.67
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	22.09	0.00	9.32	0.00	0.00	0.20	0.00	0.00	31.61

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	19.46	0.00	0.40	0.00	0.00	0.08	0.00	0.00	19.94
Nepal	2.63	0.00	8.92	0.00	0.00	-0.07	0.00	0.00	11.48
Bangladesh	-22.51	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-22.51
Myanmar	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total Net	-0.42	0.00	9.32	0.00	0.00	0.01	0.00	0.00	8.91