



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: 06-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 05.06.2024.

महोदय/Dear Sir,

आईईजीसी-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 05-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 05-June-2024, is available at the NLDC website.

धन्यवाद,
Thanks

Report for previous day

Date of Reporting: 06-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)	67666	65044	45740	28423	3277	210150
Peak Shortage (MW)	0	0	0	0	0	0
Energy Met (MU)	1763	1567	1092	639	59	5119
Hydro Gen (MU)	312	48	50	40	33	483
Wind Gen (MU)	71	156	78	-	-	305
Solar Gen (MU)*	178.89	91.92	122.60	3.90	1.04	398
Energy Shortage (MU)	1.75	0.00	0.00	0.00	0.00	1.75
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	84928	72274	51440	31224	3341	238588
Time Of Maximum Demand Met	14:52	15:02	12:21	23:04	19:58	14:54

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	0.045	0.00	0.02	3.51	3.53	69.60	26.87

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	14482	0	230.5	122.6	-7.9	339	0.00
	Haryana	12667	0	248.7	186.0	-4.2	280	0.00
	Rajasthan	16806	0	367.2	101.6	-1.3	420	1.75
	Delhi	7892	0	159.0	132.3	-1.7	380	0.00
	UP	28090	0	616.0	319.2	0.3	761	0.00
	Uttarakhand	2678	0	45.3	29.2	-1.3	251	0.00
	HP	1829	0	36.4	4.4	-1.0	70	0.00
	J&K(UT) & Ladakh(UT)	2504	0	47.8	22.5	-1.0	136	0.00
	Chandigarh	413	0	7.4	8.2	-0.8	29	0.00
Railways NR ISTS	211	0	4.4	3.8	0.5	92	0.00	
WR	Chhattisgarh	5104	0	110.7	55.2	-0.7	549	0.00
	Gujarat	24171	0	495.1	131.5	-4.0	415	0.00
	MP	13192	0	280.3	151.7	-3.6	847	0.00
	Maharashtra	26493	0	602.2	229.6	-6.9	720	0.00
	Goa	794	0	16.5	14.8	1.5	64	0.00
	DNHDDPDCL	1340	0	32.1	31.1	1.0	65	0.00
	AMNSIL	785	0	17.2	7.1	0.5	276	0.00
	BALCO	524	0	12.5	12.6	-0.1	5	0.00
SR	Andhra Pradesh	10531	0	207.9	55.9	-2.2	756	0.00
	Telangana	9677	0	194.4	71.9	-0.2	644	0.00
	Karnataka	10949	0	221.6	82.1	-3.0	957	0.00
	Kerala	4400	0	88.2	54.6	2.6	610	0.00
	Tamil Nadu	17375	0	368.9	195.2	-3.7	1002	0.00
	Puducherry	471	0	10.8	10.5	-0.3	23	0.00
ER	Bihar	6901	0	148.9	135.8	1.5	458	0.00
	DVC	3291	0	73.4	-42.7	0.2	321	0.00
	Jharkhand	2250	0	44.4	34.7	-0.6	341	0.00
	Odisha	6943	0	146.0	68.7	1.5	625	0.00
	West Bengal	11515	0	224.6	81.6	0.3	508	0.00
	Sikkim	88	0	1.4	1.5	-0.2	30	0.00
Railways ER ISTS	25	0	0.2	0.2	0.0	0	0.00	
NER	Arunachal Pradesh	160	0	2.7	2.5	-0.1	28	0.00
	Assam	2163	0	38.4	29.4	0.5	156	0.00
	Manipur	208	0	3.2	3.1	0.1	23	0.00
	Meghalaya	306	0	5.4	-0.1	-0.3	48	0.00
	Mizoram	116	0	2.1	1.8	-0.3	16	0.00
	Nagaland	166	0	2.8	2.8	0.0	18	0.00
Tripura	320	0	4.7	5.7	-1.4	53	0.00	

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

	Bhutan	Nepal	Bangladesh	Godda -> Bangladesh
Actual (MU)	7.6	-2.0	-23.3	-31.0
Day Peak (MW)	518.0	52.3	-1033.0	-1476.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	367.7	-387.9	77.8	-51.7	-5.9	0.0
Actual(MU)	348.6	-425.1	104.4	-33.5	-1.8	-7.4
O/D/U/D(MU)	-19.1	-37.2	26.6	18.2	4.1	-7.4

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL	% Share
Central Sector	2850	4310	4912	3216	301	15588	48
State Sector	3661	5819	4953	2204	99	16735	52
Total	6510	10128	9865	5420	400	32323	100

G. Sourcewise generation (Gross) (MU)

	NR	WR	SR	ER	NER	All India	% Share
Coal	853	1648	668	711	11	3891	70
Lignite	21	11	57	0	0	89	2
Hydro	312	48	50	40	33	483	9
Nuclear	30	59	51	0	0	140	3
Gas, Naptha & Diesel	60	115	10	0	24	209	4
RES (Wind, Solar, Biomass & Others)	257	250	224	5	1	738	13
Total	1533	2130	1061	756	69	5549	100

Share of RES in total generation (%)	16.79	11.72	21.16	0.69	1.53	13.29
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	39.08	16.74	30.71	5.97	48.97	24.52

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.019
Based on State Max Demands	1.038

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

	Max Demand Met(MW)	Time	Shortage(MW)
Solar hr	238588	14:54	0
Non-Solar hr	220889	0:00	1205

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: 06-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	679	395	2.1	0.0	2.1
4	765 kV	SASARAM-FATEHPUR	1	35	333	0.0	3.8	-3.8
5	765 kV	GAYA-BALIA	1	0	640	0.0	10.9	-10.9
6	400 kV	PUSAULI-VARANASI	1	98	73	0.0	0.2	-0.2
7	400 kV	PUSAULI-ALLAHABAD	1	181	71	1.2	0.0	1.2
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	0	659	0.0	7.5	-7.5
9	400 kV	PATNA-BALIA	2	0	868	0.0	13.0	-13.0
10	400 kV	NAUBATPUR-BALIA	2	0	579	0.0	3.9	-3.9
11	400 kV	BIHARSHARIFF-BALIA	2	127	149	0.0	0.2	-0.2
12	400 kV	MOTIHARI-GORAKHPUR	2	0	503	0.0	7.1	-7.1
13	400 kV	BIHARSHARIFF-VARANASI	2	0	0	0.0	0.0	0.0
14	220 kV	SAHUPURI-KARAMNANA	1	6	60	0.0	0.8	-0.8
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						3.9	47.3	-43.4
Import/Export of ER (With WR)								
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	931	262	9.0	0.0	9.0
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	1946	0	29.6	0.0	29.6
3	765 kV	JHARSUGUDA-DURG	2	20	508	0.0	5.1	-5.1
4	400 kV	JHARSUGUDA-RAIGARH	4	336	78	2.7	0.0	2.7
5	400 kV	RANCHI-SIPAT	2	539	0	7.8	0.0	7.8
6	220 kV	BUDHIPADAR-RAIGARH	1	162	113	0.8	0.0	0.8
7	220 kV	BUDHIPADAR-KORBA	2	155	208	1.4	0.0	1.4
ER-WR						51.2	5.1	46.2
Import/Export of ER (With SR)								
1	HVDC	JEYPORE-GAZUWAKA B/B	2	0	168	0.0	3.6	-3.6
2	HVDC	TALCHER-KOLAR BIPOLE	2	0	1698	0.0	41.0	-41.0
3	765 kV	ANGUL-SRIKAKULAM	2	0	2301	0.0	37.8	-37.8
4	400 kV	TALCHER-I/C	2	0	709	0.0	12.3	-12.3
5	220 kV	BALIMELA-UPPER-SILERRU	1	0	60	0.0	0.0	0.0
ER-SR						0.0	82.4	-82.4
Import/Export of ER (With NER)								
1	400 kV	BINAGURI-BONGAIGAON	2	455	0	7.2	0.0	7.2
2	400 kV	ALIPURDUAR-BONGAIGAON	2	689	0	10.9	0.0	10.9
3	220 kV	ALIPURDUAR-SALAKATI	2	128	0	2.2	0.0	2.2
ER-NER						20.4	0.0	20.4
Import/Export of NER (With NR)								
1	HVDC	BISWANATH CHARIALI-AGRA	2	655	0	16.0	0.0	16.0
NER-NR						16.0	0.0	16.0
Import/Export of WR (With NR)								
1	HVDC	CHAMPA-KIRUKSHETRA	2	0	5579	0.0	116.5	-116.5
2	HVDC	VINDHYACHAL B/B	-	295	254	2.6	2.7	-0.1
3	HVDC	MUNDRA-MOHINDERGARH	2	0	1662	0.0	37.4	-37.4
4	765 kV	GWALIOR-AGRA	2	0	2641	0.0	44.6	-44.6
5	765 kV	GWALIOR-PHAGI	2	790	1116	4.6	7.9	-3.3
6	765 kV	JABALPUR-ORAI	2	0	1130	0.0	34.4	-34.4
7	765 kV	GWALIOR-ORAI	1	557	0	6.8	0.0	6.8
8	765 kV	SATNA-ORAI	1	0	1117	0.0	21.9	-21.9
9	765 kV	BANASKANTHA-CHITTOGARH	2	43	1454	0.0	17.5	-17.5
10	765 kV	VINDHYACHAL-VARANASI	2	0	3742	0.0	73.0	-73.0
11	400 kV	ZERDA-KANKROLI	1	101	220	0.4	1.8	-1.4
12	400 kV	ZERDA-BHINMAL	1	80	200	0.2	0.8	-0.6
13	400 kV	VINDHYACHAL-RIHAND	1	961	0	21.1	0.0	21.1
14	400 kV	RAPP-SHUALPUR	2	339	402	2.4	2.2	0.2
15	400 kV	NEEMUCH-Chittorgarh	2	469	384	3.6	2.0	1.6
16	220 kV	BHANPURA-RANPUR	1	0	111	0.0	1.9	-1.9
17	220 kV	BHANPURA-MORAK	1	0	30	0.0	2.7	-2.7
18	220 kV	MEHGAON-AURAIYA	1	68	23	0.7	0.0	0.6
19	220 kV	MALANPUR-AURAIYA	1	45	30	0.3	0.1	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						42.5	367.3	-324.8
Import/Export of WR (With SR)								
1	HVDC	BHADRAWATI B/B	-	311	308	5.3	1.9	3.4
2	HVDC	RAIGARH-PUGALUR	2	0	2500	0.0	42.4	-42.4
3	765 kV	SOLAPUR-RAICHUR	2	1497	1018	7.4	3.8	3.6
4	765 kV	WARDHA-NIZAMABAD	2	0	1758	0.0	22.6	-22.6
5	765 kV	WARORA-WARANGAL(NEW)	2	0	2050	0.0	26.5	-26.5
6	400 kV	KOLHAPUR-KUDGI	2	1699	0	27.4	0.0	27.4
7	220 kV	KOLHAPUR-CHIKODI	2	0	0	0.0	0.0	0.0
8	220 kV	PONDA-AMBEWADI	1	0	75	0.0	1.4	-1.4
9	220 kV	XELDEM-AMBEWADI	1	0	126	2.5	0.0	2.5
WR-SR						42.6	98.6	-56.0

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)	495	19	303	7.28	
	ER	400kV TALA-BINAGURI 1,2,4 (& 400kV MALBASE - BINAGURI i.e. BINAGURI RECEIPT (from TALA HEP 6*170MW)	273	-32	108	2.59	
	ER	220kV CHUKHA-BIRPARA 1&2 (& 220kV MALBASE - BIRPARA) i.e. BIRPARA RECEIPT (from CHUKHA HEP 4*84MW)	-204	-86	-133	-3.20	
	NER	132kV GELEPHU-SALAKATI	-13	-1	-8	-0.19	
	NER	132kV MOTANGA-RANGIA	56	31	45	1.08	
NEPAL	NR	NEPAL IMPORT (FROM UP)	-73	0	-32	-0.77	
	NR	132kV MAHENDRANAGAR-TANAKPUR(NHPC)	-73	0	-46	-1.11	
	ER	NEPAL IMPORT (FROM BIHAR)	-182	-77	-80	-1.92	
	ER	400kV DHALKEBAR-MUZAFFARPUR 1&2	234	-176	75	1.81	
BANGLADESH	ER	BHERAMARA B/B HVDC (B'DESH)	-943	-789	-896	-21.49	
	ER (Isolated from Indian Grid)	400kV GODDA_TPS-RAHANPUR (B'DESH) D/C	-1476	-1104	-1293	-31.04	
	NER	132kV COMILLA-SURAJMANI NAGAR 1&2	-90	0	-75	-1.80	

CROSS BORDER EXCHANGE SCHEDULE

Date of Reporting: 06-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	0.59	0.00	0.00	1.56	0.00	0.00	2.37
Bangladesh	21.55	0.00	0.00	0.00	0.00	0.00	0.00	0.00	21.55
Myanmar	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total Export	21.77	0.00	0.59	0.00	0.00	1.56	0.00	0.00	23.92

Import by India(in MU)

Country	GNA (ISGA/PPA)	T-GNA							TOTAL
		BILATERAL TOTAL	COLLECTIVE						
			IDAM			RTM			
		IEX	PXIL	HPX	IEX	PXIL	HPX		
Bhutan	5.81	0.00	0.00	0.00	0.00	0.20	0.00	0.00	6.01
Nepal	2.63	0.00	0.40	0.00	0.00	0.36	0.00	0.00	3.39
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	8.44	0.00	0.40	0.00	0.00	0.56	0.00	0.00	9.40

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	5.81	0.00	0.00	0.00	0.00	0.20	0.00	0.00	6.01
Nepal	2.41	0.00	-0.19	0.00	0.00	-1.20	0.00	0.00	1.02
Bangladesh	-21.55	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-21.55
Myanmar	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total Net	-13.33	0.00	-0.19	0.00	0.00	-1.00	0.00	0.00	-14.52