



**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: 29.06.2024

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 28.06.2024.**

महोदय/Dear Sir,

आईईजीसी-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 28-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 28.06.2024, is available at the NLDC website.

धन्यवाद,  
Thanks

Report for previous day

Date of Reporting: 29-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)	76236	59572	47077	28106	3380	214371
Peak Shortage (MW)	0	0	0	304	0	304
Energy Met (MU)	1716	1390	1117	632	65	4920
Hydro Gen (MU)	364	36	75	58	38	571
Wind Gen (MU)	7	111	223	-	-	341
Solar Gen (MU)*	121.48	66.72	113.70	2.42	0.64	305
Energy Shortage (MU)	0.10	0.00	0.00	0.92	0.00	1.02
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	78128	59868	51635	29806	3385	215592
Time Of Maximum Demand Met	22:41	00:12	11:57	22:59	19:37	14:55

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	0.026	0.00	0.00	3.22	3.22	82.04	14.74

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	15764	0	340.0	207.7	-3.3	388	0.00
	Haryana	11916	0	254.2	187.4	-3.4	349	0.00
	Rajasthan	13117	0	292.9	99.4	-2.0	550	0.00
	Delhi	6694	0	127.6	115.7	-2.8	273	0.00
	UP	26185	0	538.0	278.6	-0.6	560	0.00
	Uttarakhand	2563	0	54.5	23.4	0.3	180	0.04
	HP	1853	0	40.2	1.8	0.2	165	0.00
	J&K(UT) & Ladakh(UT)	2630	0	56.7	32.4	-1.5	158	0.06
	Chandigarh	428	0	8.2	8.2	-0.1	56	0.00
Railways NR ISTS	210	0	4.2	3.7	0.5	88	0.00	
WR	Chhattisgarh	5291	0	119.3	69.1	-2.4	119	0.00
	Gujarat	19467	0	427.8	157.3	-4.3	784	0.00
	MP	10971	0	239.7	137.9	-5.1	470	0.00
	Maharashtra	23439	0	529.2	158.4	-6.7	777	0.00
	Goa	693	0	13.5	13.6	-0.3	31	0.00
	DNHDDPDCL	1332	0	30.9	31.0	-0.1	58	0.00
	AMNSIL	782	0	17.0	3.6	-0.1	225	0.00
	BALCO	526	0	12.5	12.5	0.0	20	0.00
SR	Andhra Pradesh	10382	0	215.3	36.4	-3.6	419	0.00
	Telangana	9949	0	206.4	114.8	1.5	696	0.00
	Karnataka	12534	0	231.3	52.1	0.9	718	0.00
	Kerala	3980	0	77.7	48.1	0.3	365	0.00
	Tamil Nadu	17602	0	375.4	149.7	-2.5	874	0.00
	Puducherry	482	0	10.7	10.3	-0.2	27	0.00
ER	Bihar	7383	304	152.5	144.6	-2.5	362	0.92
	DVC	3582	0	78.4	-36.5	0.0	319	0.00
	Jharkhand	2269	0	48.4	39.0	-0.1	174	0.00
	Odisha	5579	0	121.2	45.4	-1.9	356	0.00
	West Bengal	11123	0	230.3	90.1	-1.6	243	0.00
	Sikkim	86	0	1.4	1.5	-0.1	8	0.00
	Railways ER ISTS	14	0	0.1	0.1	0.0	0	0.00
NER	Arunachal Pradesh	144	0	2.9	2.7	-0.3	19	0.00
	Assam	2282	0	43.2	35.3	-0.1	145	0.00
	Manipur	179	0	2.5	3.0	-0.4	11	0.00
	Meghalaya	322	0	6.0	-0.3	-0.1	34	0.00
	Mizoram	126	0	1.9	0.9	-0.3	14	0.00
	Nagaland	151	0	3.0	2.5	-0.1	14	0.00
	Tripura	288	0	5.5	5.1	-0.3	88	0.00

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

	Bhutan	Nepal	Bangladesh	Godda -> Bangladesh
Actual (MU)	29.2	11.4	-24.0	-6.2
Day Peak (MW)	1659.4	628.0	-1031.0	-759.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	435.9	-359.8	-6.9	-68.2	-0.9	0.0
Actual(MU)	421.5	-358.0	7.3	-75.7	-4.3	-9.2
O/D/U/D(MU)	-14.3	1.8	14.2	-7.5	-3.4	-9.2

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL	% Share
Central Sector	4753	7881	6258	3391	597	22879	55
State Sector	3251	7591	6368	1542	119	18870	45
Total	8004	15471	12626	4932	716	41749	100

G. Sourcewise generation (Gross) (MU)

	NR	WR	SR	ER	NER	All India	% Share
Coal	801	1548	618	725	14	3705	70
Lignite	30	20	52	0	0	102	2
Hydro	364	36	75	58	38	571	11
Nuclear	30	60	52	0	0	141	3
Gas, Naptha & Diesel	23	39	6	0	22	90	2
RES (Wind, Solar, Biomass & Others)	137	179	365	4	1	686	13
Total	1384	1882	1166	787	75	5294	100

Share of RES in total generation (%)	9.87	9.52	31.27	0.56	0.87	12.95
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	38.33	14.60	42.09	7.90	52.16	26.40

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.033
Based on State Max Demands	1.077

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

	Max Demand Met(MW)	Time	Shortage(MW)
Solar hr	215592	14:55	21
Non-Solar hr	215429	22:42	304

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: 29-Jun-2024

Sl No	Voltage Level	Line Details	No. of Circuit	Max Import (MW)	Max Export (MW)	Import (MU)	Export (MU)	NET (MU)
<b>Import/Export of ER (With NR)</b>								
1	HVDC	ALIPURDUAR-AGRA	2	0	0	0.0	0.0	0.0
2	HVDC	PUSAULI B/B	-	0	95	0.0	2.3	-2.3
3	765 kV	GAYA-VARANASI	2	451	703	0.0	7.0	-7.0
4	765 kV	SASARAM-FATEHPUR	1	100	463	0.0	5.9	-5.9
5	765 kV	GAYA-BALIA	1	0	711	0.0	12.5	-12.5
6	400 kV	PUSAULI-VARANASI	1	29	54	0.0	0.2	-0.2
7	400 kV	PUSAULI-ALLAHABAD	1	0	125	0.0	2.0	-2.0
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	0	955	0.0	16.3	-16.3
9	400 kV	PATNA-BALIA	2	0	869	0.0	13.6	-13.6
10	400 kV	NAUBATPUR-BALIA	2	8	261	0.0	3.9	-3.9
11	400 kV	BIHARSHARIFF-BALIA	2	150	213	0.0	1.4	-1.4
12	400 kV	MOTIHARI-GORAKHPUR	2	0	659	0.0	11.6	-11.6
13	400 kV	BIHARSHARIFF-VARANASI	2	0	0	0.0	0.0	0.0
14	220 kV	SAHUPURI-KARAMNANA	1	28	59	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	0.7	0.0	0.7
17	132 kV	KARMANASA-SAHUPURI	1	0	0	0.0	0.0	0.0
18	132 kV	KARMANASA-CHANDALI	1	0	0	0.0	0.0	0.0
<b>ER-NR</b>						<b>0.7</b>	<b>77.2</b>	<b>-76.5</b>
<b>Import/Export of ER (With WR)</b>								
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	589	1221	0.0	11.4	-11.4
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	2410	0	39.8	0.0	39.8
3	765 kV	JHARSUGUDA-DURG	2	0	585	0.0	7.6	-7.6
4	400 kV	JHARSUGUDA-RAIGARH	4	301	234	1.4	0.0	1.4
5	400 kV	RANCHI-SIPAT	2	613	0	9.4	0.0	9.4
6	220 kV	BUDHIPADAR-RAIGARH	1	0	152	0.0	2.1	-2.1
7	220 kV	BUDHIPADAR-KORBA	2	0	156	0.0	1.9	-1.9
<b>ER-WR</b>						<b>50.6</b>	<b>23.0</b>	<b>27.6</b>
<b>Import/Export of ER (With SR)</b>								
1	HVDC	JEYPORE-GAZUWAKA B/B	2	406	0	8.9	0.0	8.9
2	HVDC	TALCHER-KOLAR BIPOLE	2	0	1687	0.0	40.8	-40.8
3	765 kV	ANGUL-SRIKAKULAM	2	0	2739	0.0	39.1	-39.1
4	400 kV	TALCHER-I/C	2	0	733	0.0	11.5	-11.5
5	220 kV	BALIMELA-UPPER-SILERRU	1	0	0	0.0	0.0	0.0
<b>ER-SR</b>						<b>8.9</b>	<b>79.8</b>	<b>-70.9</b>
<b>Import/Export of ER (With NER)</b>								
1	400 kV	BINAGURI-BONGAIGAOON	2	457	0	7.6	0.0	7.6
2	400 kV	ALIPURDUAR-BONGAIGAOON	2	544	0	8.5	0.0	8.5
3	220 kV	ALIPURDUAR-SALAKATI	2	114	0	1.8	0.0	1.8
<b>ER-NER</b>						<b>17.9</b>	<b>0.0</b>	<b>17.9</b>
<b>Import/Export of NER (With NR)</b>								
1	HVDC	BISWANATH CHARIALI-AGRA	2	510	0	12.5	0.0	12.5
<b>NER-NR</b>						<b>12.5</b>	<b>0.0</b>	<b>12.5</b>
<b>Import/Export of WR (With NR)</b>								
1	HVDC	CHAMPA-KIRUKSHETRA	2	0	4525	0.0	55.9	-55.9
2	HVDC	VINDHYACHAL B/B	-	0	511	0.0	9.5	-9.5
3	HVDC	MUNDRA-MOHINDERGARH	2	0	2358	0.0	47.0	-47.0
4	765 kV	GWALIOR-AGRA	2	0	3364	0.0	60.8	-60.8
5	765 kV	GWALIOR-PHAGI	2	0	2016	0.0	31.9	-31.9
6	765 kV	JABALPUR-ORAI	2	0	1516	0.0	53.2	-53.2
7	765 kV	GWALIOR-ORAI	1	639	0	12.3	0.0	12.3
8	765 kV	SATNA-ORAI	1	0	1264	0.0	26.2	-26.2
9	765 kV	BANASKANTHA-CHITTOGARH	2	682	1571	1.3	11.8	-10.5
10	765 kV	VINDHYACHAL-VARANASI	2	0	4033	0.0	79.7	-79.7
11	400 kV	ZERDA-KANKROLI	1	120	258	0.4	1.7	-1.3
12	400 kV	ZERDA -BHINMAL	1	120	257	0.4	1.7	-1.3
13	400 kV	VINDHYACHAL -RIHAND	1	958	0	21.0	0.0	21.0
14	400 kV	RAPP-SHUALPUR	2	90	652	0.0	8.2	-8.2
15	400 kV	NEEMUCH-Chittorgarh	2	170	691	0.1	8.1	-8.0
16	220 kV	BHANPURA-RANPUR	1	0	112	0.0	1.9	-1.9
17	220 kV	BHANPURA-MORAK	1	0	30	0.0	2.1	-2.1
18	220 kV	MEHGAON-AURAIYA	1	22	73	0.0	0.8	-0.8
19	220 kV	MALANPUR-AURAIYA	1	12	79	0.0	1.1	-1.1
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
<b>WR-NR</b>						<b>35.5</b>	<b>401.4</b>	<b>-365.9</b>
<b>Import/Export of WR (With SR)</b>								
1	HVDC	BHADRAWATI B/B	-	999	0	15.8	0.0	15.8
2	HVDC	RAIGARH-PUGALUR	2	0	1306	2.7	19.7	-17.0
3	765 kV	SOLAPUR-RAICHUR	2	2707	682	31.8	0.7	31.2
4	765 kV	WARDHA-NIZAMABAD	2	229	2377	0.1	18.6	-18.5
5	765 kV	WARORA-WARANGAL(NEW)	2	405	2425	0.3	16.6	-16.3
6	400 kV	KOLHAPUR-KUDGI	2	2131	0	38.1	0.0	38.1
7	220 kV	KOLHAPUR-CHIKODI	2	0	0	0.0	0.0	0.0
8	220 kV	PONDA-AMBEWADI	1	0	59	1.3	0.0	1.3
9	220 kV	XELDEM-AMBEWADI	1	0	122	2.1	0.0	2.1
<b>WR-SR</b>						<b>92.2</b>	<b>55.6</b>	<b>36.6</b>

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 MANGDECHU HEP 4*180MW)	829	601	664	15.93	
	ER	400kV TALA-BINAGURI 1,2,4 (& 400kV MALBASE - BINAGURI i.e. BINAGURI RECEIPT (from TALA HEP 6*170MW)	748	-3	518	12.43	
	ER	220kV CHUKHA-BIRPARA 1&2 (& 220kV MALBASE - BIRPARA) i.e. BIRPARA RECEIPT (from CHUKHA HEP 4*84MW)	-176	44	-30	-0.73	
	NER	132kV GELEPHU-SALAKATI	28	6	13	0.32	
	NER	132kV MOTANGA-RANGIA	64	32	52	1.24	
NEPAL	NR	NEPAL IMPORT (FROM UP)	0	0	0	0.00	
	NR	132kV MAHENDRANAGAR-TANAKPUR(NHPC)	0	0	0	0.09	
	ER	NEPAL IMPORT (FROM BIHAR)	0	0	0	0.00	
	ER	400kV DHALKEBAR-MUZAFFARPUR 1&2	659	360	480	11.51	
BANGLADESH	ER	BHERAMARA B/B HVDC (B'DESH)	-937	-861	-927	-22.25	
	ER (Isolated from Indian Grid)	400kV GODDA_TPS-RAHANPUR (B'DESH) D/C	-759	47	-258	-6.19	
	NER	132kV COMILLA-SURAJMANI NAGAR 1&2	-94	0	-73	-1.74	

