



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: 01.07.2024

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 30.06.2024.

महोदय/Dear Sir,

आईईजीसी-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 30-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 30.06.2024, is available at the NLDC website.

धन्यवाद,
Thanks

Report for previous day

Date of Reporting: 01-Jul-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)	74167	53943	41312	25171	2941	197534
Peak Shortage (MW)	0	0	0	149	0	149
Energy Met (MU)	1664	1293	1049	558	58	4622
Hydro Gen (MU)	364	32	61	64	41	560
Wind Gen (MU)	25	147	170	-	-	342
Solar Gen (MU)*	156.90	52.83	85.71	2.44	0.49	298
Energy Shortage (MU)	0.00	0.00	0.00	0.64	0.00	0.64
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	76295	56878	49030	27415	3049	205936
Time Of Maximum Demand Met	22:20	00:01	09:43	22:46	19:28	00:00

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	0.030	0.00	0.17	5.69	5.87	84.17	9.96

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	14221	0	316.9	202.1	-1.5	242	0.00
	Haryana	11946	0	254.4	187.0	-1.3	351	0.00
	Rajasthan	13253	0	294.2	90.5	-6.0	336	0.00
	Delhi	6777	0	131.8	120.2	-0.7	160	0.00
	UP	25400	0	512.0	264.4	-1.0	260	0.00
	Uttarakhand	2405	0	52.2	24.6	0.8	172	0.00
	HP	1770	0	37.7	0.7	-0.4	108	0.00
	J&K(UT) & Ladakh(UT)	2519	0	52.7	31.1	-4.2	98	0.00
	Chandigarh	373	0	7.5	7.5	0.0	32	0.00
Railways NR ISTS	201	0	4.4	3.9	0.6	35	0.00	
WR	Chhattisgarh	4952	0	112.4	63.9	-2.8	141	0.00
	Gujarat	16800	0	377.7	142.7	-0.2	483	0.00
	MP	10072	0	219.4	118.2	-5.3	402	0.00
	Maharashtra	22166	0	512.7	157.9	-1.7	470	0.00
	Goa	641	0	12.8	13.3	-0.6	69	0.00
	DNHDDPDCL	1269	0	28.9	29.1	-0.2	90	0.00
	AMNSIL	784	0	16.7	6.6	0.4	213	0.00
	BALCO	524	0	12.5	12.6	-0.1	10	0.00
	Andhra Pradesh	9751	0	199.0	62.7	-1.3	806	0.00
SR	Telangana	9565	0	194.3	125.7	-0.4	1515	0.00
	Karnataka	12086	0	218.8	70.6	-2.8	507	0.00
	Kerala	3661	0	73.7	48.4	0.2	320	0.00
	Tamil Nadu	16186	0	352.9	153.3	-2.0	873	0.00
	Puducherry	444	0	10.1	9.6	-0.1	23	0.00
	Bihar	6794	53	127.8	119.5	-2.3	601	0.64
ER	DVC	3316	0	69.2	-32.7	-2.0	371	0.00
	Jharkhand	1894	0	40.1	29.4	-1.2	262	0.00
	Odisha	5272	0	114.3	41.3	-2.3	392	0.00
	West Bengal	10137	0	205.4	79.0	-2.9	245	0.00
	Sikkim	59	0	0.8	1.1	-0.4	0	0.00
	Railways ER ISTS	18	0	0.1	0.1	0.0	1	0.00
NER	Arunachal Pradesh	139	0	2.2	2.8	-1.3	0	0.00
	Assam	1920	0	38.4	29.1	1.5	110	0.00
	Manipur	187	0	2.9	3.1	-0.2	25	0.00
	Meghalaya	362	0	5.7	0.6	-0.2	100	0.00
	Mizoram	99	0	1.7	1.3	-0.9	2	0.00
	Nagaland	152	0	2.6	2.6	-0.5	16	0.00
Tripura	271	0	5.0	4.4	-0.4	38	0.00	

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

	Bhutan	Nepal	Bangladesh	Godda -> Bangladesh
Actual (MU)	36.2	13.3	-24.3	0.8
Day Peak (MW)	1748.0	536.0	-1039.0	50.8

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	377.3	-366.6	79.2	-83.0	-6.8	0.0
Actual(MU)	349.5	-365.5	103.9	-84.6	-12.9	-9.7
O/D/U/D(MU)	-27.8	1.1	24.7	-1.6	-6.1	-9.7

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL	% Share
Central Sector	4878	8681	6158	4371	597	24684	50
State Sector	3811	10743	8258	1289	119	24219	50
Total	8689	19423	14416	5660	716	48903	100

G. Sourcewise generation (Gross) (MU)

	NR	WR	SR	ER	NER	All India	% Share
Coal	777	1436	551	648	14	3425	69
Lignite	29	16	51	0	0	97	2
Hydro	364	32	61	64	41	560	11
Nuclear	30	61	52	0	0	142	3
Gas, Naptha & Diesel	18	33	6	0	22	79	2
RES (Wind, Solar, Biomass & Others)	190	202	286	4	0	683	14
Total	1407	1780	1006	716	76	4986	100

Share of RES in total generation (%)	13.52	11.37	28.40	0.60	0.64	13.70
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	41.45	16.57	39.58	9.52	53.67	27.79

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.032
Based on State Max Demands	1.060

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

	Max Demand Met(MW)	Time	Shortage(MW)
Solar hr	197460	12:24	0
Non-Solar hr	205936	0:00	0

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: 01-Jul-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	95	0.0	2.4	-2.4
3	765 kV	GAYA-VARANASI	2	409	963	0.0	6.4	-6.4
4	765 kV	SASARAM-FATEHPUR	1	23	556	0.0	6.5	-6.5
5	765 kV	GAYA-BALIA	1	0	638	0.0	9.4	-9.4
6	400 kV	PUSAULI-VARANASI	1	11	84	0.0	0.7	-0.7
7	400 kV	PUSAULI-ALLAHABAD	1	0	107	0.0	1.6	-1.6
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	0	1103	0.0	19.7	-19.7
9	400 kV	PATNA-BALIA	2	0	908	0.0	12.7	-12.7
10	400 kV	NAUBATPUR-BALIA	2	0	289	0.0	3.5	-3.5
11	400 kV	BIHARSHARIFF-BALIA	2	106	313	0.0	3.1	-3.1
12	400 kV	MOTIHARI-GORAKHPUR	2	0	656	0.0	10.6	-10.6
13	400 kV	BIHARSHARIFF-VARANASI	2	0	0	0.0	0.0	0.0
14	220 kV	SAHUPURI-KARAMNANA	1	28	67	0.0	0.7	-0.7
15	132 kV	NAGAR UNTARI-RIHAND	1	0	0	0.0	0.0	0.0
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-CHANDALI	1	0	0	0.0	0.0	0.0
ER-NR						0.5	77.1	-76.7
Import/Export of ER (With WR)								
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	958	762	2.1	0.0	2.1
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	1743	0	27.4	0.0	27.4
3	765 kV	JHARSUGUDA-DURG	2	0	644	0.0	9.2	-9.2
4	400 kV	JHARSUGUDA-RAIGARH	4	198	442	0.0	0.4	-0.4
5	400 kV	RANCHI-SIPAT	2	451	119	6.1	0.0	6.1
6	220 kV	BUDHIPADAR-RAIGARH	1	0	136	0.0	2.1	-2.1
7	220 kV	BUDHIPADAR-KORBA	2	0	111	0.0	0.4	-0.4
ER-WR						35.6	12.1	23.5
Import/Export of ER (With SR)								
1	HVDC	JEYPORE-GAZUWAKA B/B	2	202	0	4.7	0.0	4.7
2	HVDC	TALCHER-KOLAR BIPOLE	2	0	1692	0.0	41.0	-41.0
3	765 kV	ANGUL-SRIKAKULAM	2	0	2819	0.0	47.6	-47.6
4	400 kV	TALCHER-I/C	2	0	733	0.0	11.2	-11.2
5	220 kV	BALIMELA-UPPER-SILERRU	1	0	0	0.0	0.0	0.0
ER-SR						4.7	88.6	-83.9
Import/Export of ER (With NER)								
1	400 kV	BINAGURI-BONGAIGAON	2	616	0	10.6	0.0	10.6
2	400 kV	ALIPURDUAR-BONGAIGAON	2	785	0	12.8	0.0	12.8
3	220 kV	ALIPURDUAR-SALAKATI	2	153	0	2.5	0.0	2.5
ER-NER						25.9	0.0	25.9
Import/Export of NER (With NR)								
1	HVDC	BISWANATH CHARIAL-AGRA	2	507	0	11.9	0.0	11.9
NER-NR						11.9	0.0	11.9
Import/Export of WR (With NR)								
1	HVDC	CHAMPA-KURUKSHETRA	2	0	3022	0.0	53.3	-53.3
2	HVDC	VINDHYACHAL B/B	-	0	512	0.0	12.0	-12.0
3	HVDC	MUNDRA-MOHINDERGARH	2	0	2358	0.0	38.8	-38.8
4	765 kV	GWALIOR-AGRA	2	0	3160	0.0	48.4	-48.4
5	765 kV	GWALIOR-PHAGI	2	704	1895	1.8	24.6	-22.8
6	765 kV	JABALPUR-ORAI	2	0	1447	0.0	38.6	-38.6
7	765 kV	GWALIOR-ORAI	1	664	0	9.9	0.0	9.9
8	765 kV	SATNA-ORAI	1	0	1266	0.0	23.7	-23.7
9	765 kV	BANASKANTHA-CHITTOGARH	2	737	1164	2.3	7.9	-5.5
10	765 kV	VINDHYACHAL-VARANASI	2	0	3670	0.0	63.6	-63.6
11	400 kV	ZERDA-KANKROLI	1	274	198	1.4	1.1	0.3
12	400 kV	ZERDA -BHINMAL	1	14	136	0.0	0.5	-0.5
13	400 kV	VINDHYACHAL -RIHAND	1	962	0	20.9	0.0	20.9
14	400 kV	RAPP-SHUJALPUR	2	390	726	1.6	6.6	-5.0
15	400 kV	NEEMUCH-Chittorgarh	2	486	720	2.1	6.3	-4.2
16	220 kV	BHANPURA-RANPUR	1	0	69	0.0	1.2	-1.2
17	220 kV	BHANPURA-MORAK	1	0	30	0.0	2.1	-2.1
18	220 kV	MEHGAON-AURAIYA	1	43	51	0.1	0.5	-0.4
19	220 kV	MALANPUR-AURAIYA	1	23	63	0.1	0.7	-0.6
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						40.1	329.6	-289.5
Import/Export of WR (With SR)								
1	HVDC	BHADRAWATI B/B	-	501	0	12.0	0.0	12.0
2	HVDC	RAIGARH-PUGALUR	2	0	1405	0.0	27.9	-27.9
3	765 kV	SOLAPUR-RAICHUR	2	1241	1239	9.9	4.1	5.8
4	765 kV	WARDHA-NIZAMABAD	2	0	2660	0.0	35.8	-35.8
5	765 kV	WARORA-WARANGAL(NEW)	2	0	2660	0.0	35.6	-35.6
6	400 kV	KOLHAPUR-KUDGI	2	1564	0	28.5	0.0	28.5
7	220 kV	KOLHAPUR-CHIKODI	2	0	0	0.0	0.0	0.0
8	220 kV	PONDA-AMBEWADI	1	0	54	0.0	0.0	0.0
9	220 kV	XELDEM-AMBEWADI	1	1	0	0.0	0.0	0.0
WR-SR						51.3	103.4	-52.2

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)	804	516	723	17.36	
	ER	400kV TALA-BINAGURI 1,2,4 (& 400kV MALBASE - BINAGURI i.e. BINAGURI RECEIPT (from TALA HEP 6*170MW)	819	700	717	17.20	
	ER	220kV CHUKHA-BIRPARA 1&2 (& 220kV MALBASE - BIRPARA) i.e. BIRPARA RECEIPT (from CHUKHA HEP 4*84MW)	23	-6	12	0.28	
	NER	132kV GELEPHU-SALAKATI	19	0	15	0.36	
	NER	132kV MOTANGA-RANGIA	54	0	43	1.02	
NEPAL	NR	NEPAL IMPORT (FROM UP)	0	0	0	0.00	
	NR	132kV MAHENDRANAGAR-TANAKPUR(NHPC)	0	0	0	0.82	
	ER	NEPAL IMPORT (FROM BIHAR)	0	0	0	0.00	
	ER	400kV DHALKEBAR-MUZAFFARPUR 1&2	575	335	518	12.44	
BANGLADESH	ER	BHERAMARA B/B HVDC (B'DESH)	-953	-942	-945	-22.68	
	ER (Isolated from Indian Grid)	400kV GODDA_TPS-RAHANPUR (B'DESH) D/C	51	0	35	0.84	
	NER	132kV COMILLA-SURAJMANI NAGAR 1&2	-86	0	-69	-1.66	

