



National Load Despatch Centre
राष्ट्रीय भार प्रेषण केंद्र
GRID CONTROLLER OF INDIA LIMITED
ग्रिड 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: 27th September 2023

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 26.09.2023.

महोदय/Dear Sir,

आईईजीसी-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 26-सितम्बर-2023 की अखिल भारतीय प्रणाली की दैनिक ग्रिड 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 26th September 2023, is available at the NLDC website.

धन्यवाद,

Report for previous day

Date of Reporting: 27-Sep-2023

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)	68930	57036	45757	25923	3132	200778
Peak Shortage (MW)	89	0	0	168	370	627
Energy Met (MU)	1483	1300	1112	558	65	4518
Hydro Gen (MU)	253	113	74	123	28	591
Wind Gen (MU)	8	22	121	-	-	150
Solar Gen (MU)*	123.35	52.56	108.34	2.55	1.14	288
Energy Shortage (MU)	1.53	0.00	0.00	1.13	1.54	4.20
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	69905	61504	52780	26701	3448	206715
Time Of Maximum Demand Met	19:25	18:51	10:21	20:59	18:04	19:18

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	0.035	0.00	0.02	8.46	8.48	79.69	11.83

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	11155	0	233.2	134.9	-0.4	164	0.00
	Haryana	10064	0	210.9	148.2	-1.1	164	0.00
	Rajasthan	12758	0	287.6	83.8	-3.3	260	0.00
	Delhi	5736	0	122.4	110.8	-1.4	163	0.00
	UP	25243	0	490.4	200.7	-0.7	255	0.00
	Uttarakhand	2276	0	47.1	24.8	1.6	168	0.00
	HP	1694	0	34.3	14.1	-1.5	0	0.11
	J&K(UT) & Ladakh(UT)	2530	89	47.9	25.2	8.1	747	1.42
	Chandigarh	293	0	5.8	5.6	0.2	35	0.00
Railways NR ISTS	164	0	3.2	3.5	-0.3	12	0.00	
WR	Chhattisgarh	4455	0	100.5	48.5	-1.2	231	0.00
	Gujarat	18171	0	388.4	167.6	-2.0	1219	0.00
	MP	12062	0	256.4	113.9	-3.6	377	0.00
	Maharashtra	22882	0	481.4	204.1	-5.7	2606	0.00
	Goa	669	0	13.8	13.0	0.1	143	0.00
	DNHDDPDCL	1289	0	29.6	29.9	-0.3	96	0.00
	AMNSIL	853	0	17.6	6.3	-0.1	297	0.00
	BALCO	520	0	12.4	12.4	0.0	516	0.00
SR	Andhra Pradesh	9825	0	214.0	105.6	-1.5	754	0.00
	Telangana	12765	0	230.9	113.3	0.4	1022	0.00
	Karnataka	12400	0	233.1	71.7	0.0	656	0.00
	Kerala	4081	0	81.9	68.2	0.8	440	0.00
	Tamil Nadu	16770	0	341.9	136.7	-1.6	996	0.00
	Puducherry	437	0	9.8	9.4	-0.3	47	0.00
ER	Bihar	6414	168	126.4	120.5	0.9	450	1.13
	DVC	3459	0	76.7	-34.6	0.1	282	0.00
	Jharkhand	1719	0	34.1	26.1	-1.2	168	0.00
	Odisha	5488	0	122.7	54.2	-0.7	308	0.00
	West Bengal	9337	0	196.6	70.2	-1.7	180	0.00
	Sikkim	88	0	1.4	1.7	-0.3	11	0.00
	Railways ER ISTS	18	0	0.2	0.2	0.0	8	0.00
NER	Arunachal Pradesh	174	0	3.1	2.6	0.2	49	0.00
	Assam	2201	0	42.4	34.2	2.0	361	1.40
	Manipur	193	0	2.8	2.8	0.0	22	0.00
	Meghalaya	325	1	5.8	1.4	-0.2	43	0.14
	Mizoram	102	0	1.8	1.5	-0.3	11	0.00
	Nagaland	169	0	3.0	2.6	0.0	15	0.00
	Tripura	340	0	6.5	6.0	0.4	60	0.00

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

	Bhutan	Nepal	Bangladesh	Godda -> Bangladesh
Actual (MU)	34.5	13.1	-25.0	-29.0
Day Peak (MW)	1641.0	742.0	-1091.0	-1377.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	312.7	-250.6	95.9	-158.8	0.8	0.0
Actual(MU)	305.1	-254.7	108.8	-167.1	3.1	-4.8
O/D/U/D(MU)	-7.6	-4.0	12.8	-8.3	2.3	-4.8

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL	% Share
Central Sector	4139	12184	5118	660	505	22605	47
State Sector	4521	10925	6492	3300	219	25457	53
Total	8660	23109	11610	3960	724	48062	100

G. Sourcewise generation (Gross) (MU)

	NR	WR	SR	ER	NER	All India	% Share
Coal	798	1377	623	664	15	3477	71
Lignite	31	16	41	0	0	88	2
Hydro	253	113	74	123	28	591	12
Nuclear	24	53	76	0	0	154	3
Gas, Naptha & Diesel	15	40	6	0	25	87	2
RES (Wind, Solar, Biomass & Others)	138	77	257	4	1	477	10
Total	1260	1677	1076	792	70	4875	100

Share of RES in total generation (%)	10.98	4.59	23.85	0.52	1.63	9.79
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	33.00	14.55	37.74	16.11	41.61	25.08

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.036
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	201516	15:00	178
Non-Solar hr	206715	19:18	738

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 -> 06:00 to 18:00hrs 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: 27-Sep-2023

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	1001	0.0	24.4	-24.4
2	HVDC	PUSAULI B/B	-	0	147	0.0	3.6	-3.6
3	765 kV	GAYA-VARANASI	2	204	584	0.0	7.5	-7.5
4	765 kV	SASARAM-FATEHPUR	1	0	366	0.0	5.7	-5.7
5	765 kV	GAYA-BALIA	1	0	695	0.0	10.1	-10.1
6	400 kV	PUSAULI-VARANASI	1	0	106	0.0	1.6	-1.6
7	400 kV	PUSAULI-ALLAHABAD	1	0	127	0.0	1.8	-1.8
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	0	794	0.0	13.6	-13.6
9	400 kV	PATNA-BALIA	2	0	523	0.0	9.6	-9.6
10	400 kV	NAUBATPUR-BALIA	2	0	549	0.0	9.4	-9.4
11	400 kV	BIHARSHARIFF-BALIA	2	70	295	0.0	3.8	-3.8
12	400 kV	MOTIHARI-GORAKHPUR	2	0	434	0.0	7.5	-7.5
13	400 kV	BIHARSHARIFF-VARANASI	2	86	274	0.0	2.8	-2.8
14	220 kV	SAHUPURI-KARAMNANA	1	6	137	0.0	1.9	-1.9
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						0.6	103.3	-102.7
Import/Export of ER (With WR)								
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	693	516	2.7	0.0	2.7
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	994	619	9.9	0.0	9.9
3	765 kV	JHARSUGUDA-DURG	2	0	512	0.0	6.0	-6.0
4	400 kV	JHARSUGUDA-RAIGARH	4	174	440	0.0	3.1	-3.1
5	400 kV	RANCHI-SIPAT	2	187	223	2.2	0.0	2.2
6	220 kV	BUDHIPADAR-RAIGARH	1	0	173	0.0	1.9	-1.9
7	220 kV	BUDHIPADAR-KORBA	2	89	7	1.0	0.0	1.0
ER-WR						15.8	11.0	4.8
Import/Export of ER (With SR)								
1	HVDC	JEYPORE-GAZUWAKA B/B	2	0	339	0.0	7.5	-7.5
2	HVDC	TALCHER-KOLAR BIPOLE	2	0	1645	0.0	37.9	-37.9
3	765 kV	ANGUL-SRIKAKULAM	2	0	2501	0.0	44.5	-44.5
4	400 kV	TALCHER-I/C	2	167	374	0.0	4.8	-4.8
5	220 kV	BALIMELA-UPPER-SILERRU	1	0	0	0.0	0.0	0.0
ER-SR						0.0	89.9	-89.9
Import/Export of ER (With NER)								
1	400 kV	BINAGURI-BONGAIGAON	2	0	461	0.0	7.0	-7.0
2	400 kV	ALIPURDUAR-BONGAIGAON	2	60	452	0.0	5.2	-5.2
3	220 kV	ALIPURDUAR-SALAKATI	2	0	119	0.0	2.0	-2.0
ER-NER						0.0	14.2	-14.2
Import/Export of NER (With NR)								
1	HVDC	BISWANATH CHARIALI-AGRA	2	0	503	0.0	12.3	-12.3
NER-NR						0.0	12.3	-12.3
Import/Export of WR (With NR)								
1	HVDC	CHAMPA-KIRUKSHETRA	2	0	3023	0.0	69.3	-69.3
2	HVDC	VINDHYACHAL B/B	-	271	0	7.3	0.0	7.3
3	HVDC	MUNDRA-MOHINDERGARH	2	0	1450	0.0	34.7	-34.7
4	765 kV	GWALIOR-AGRA	2	0	2167	0.0	29.3	-29.3
5	765 kV	GWALIOR-PHAGI	2	196	1591	0.2	21.2	-21.0
6	765 kV	JABALPUR-ORAI	2	0	1185	0.0	32.3	-32.3
7	765 kV	GWALIOR-ORAI	1	696	0	12.6	0.0	12.6
8	765 kV	SATNA-ORAI	1	0	1021	0.0	20.4	-20.4
9	765 kV	BANASKANTHA-CHITORGARH	2	1586	502	13.7	0.0	13.7
10	765 kV	VINDHYACHAL-VARANASI	2	0	2865	0.0	45.2	-45.2
11	400 kV	ZERDA-KANKROLI	1	262	109	2.3	0.4	1.9
12	400 kV	ZERDA -BHINMAL	1	562	228	3.1	0.0	3.1
13	400 kV	VINDHYACHAL -RIHAND	1	968	0	22.2	0.0	22.2
14	400 kV	RAPP-SHUJALPUR	2	285	569	0.0	4.0	-4.0
15	220 kV	BHANPURA-RANPUR	1	0	93	0.0	1.7	-1.7
16	220 kV	BHANPURA-MORAK	1	0	30	0.0	2.3	-2.3
17	220 kV	MEHGAON-AURAIYA	1	120	0	1.8	0.0	1.8
18	220 kV	MALANPUR-AURAIYA	1	88	4	0.9	0.0	0.9
19	132 kV	GWALIOR-SAWAI MADHOPUR	1	0	0	0.0	0.0	0.0
20	132 kV	RAJGHAT-LALITPUR	2	0	0	0.0	0.0	0.0
WR-NR						63.9	260.6	-196.7
Import/Export of WR (With SR)								
1	HVDC	BHADRAWATI B/B	-	0	1006	0.0	12.1	-12.1
2	HVDC	RAIGARH-PUGALUR	2	0	3502	0.0	40.2	-40.2
3	765 kV	SOLAPUR-RAICHUR	2	1123	1075	7.5	2.7	4.9
4	765 kV	WARDHA-NIZAMABAD	2	0	2484	0.0	32.5	-32.5
5	400 kV	KOLHAPUR-KUDGI	2	1305	0	24.6	0.0	24.6
6	220 kV	KOLHAPUR-CHIKODI	2	0	0	0.0	0.0	0.0
7	220 kV	PONDA-AMBEWADI	1	0	0	0.0	0.0	0.0
8	220 kV	XELDEM-AMBEWADI	1	0	115	2.3	0.0	2.3
WR-SR						34.4	87.4	-53.1

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)	407	214	367	8.80	
	ER	400kV TALA-BINAGURI 1,2,4 (& 400kV MALBASE - BINAGURI) i.e. BINAGURI RECEIPT (from TALA HEP 6*170MW)	1015	790	951	22.81	
	ER	220kV CHUKHA-BIRPARA 1&2 (& 220kV MALBASE - BIRPARA) i.e. BIRPARA RECEIPT (from CHUKHA HEP 4*84MW)	75	17	45	1.07	
	NER	132kV GELEPHU-SALAKATI	34	11	20	0.49	
	NER	132kV MOTANGA-RANGIA	61	17	55	1.31	
NEPAL	NR	132kV MAHENDRANAGAR-TANAKPUR(NHPC)	-4	0	51	1.22	
	ER	NEPAL IMPORT (FROM BIHAR)	0	0	0	0.00	
	ER	400kV DHALKEBAR-MUZAFFARPUR 1&2	746	355	494	11.85	
BANGLADESH	ER	BHERAMARA B/B HVDC (B'DESH)	-927	-795	-894	-21.46	
	ER (Isolated from Indian Grid)	400kV GODDA_TPS-RAHANPUR (B'DESH) D/C	-1377	-1102	-1208	-29.00	
	NER	132kV COMILLA-SURAJMANI NAGAR 1&2	-164	0	-148	-3.54	

