

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: 26th 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, 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 25.09.2023.

महोदय/Dear Sir,

आईईजीसी-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 25-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 25th September 2023, is available at the NLDC website.

धन्यवाद,

Report for previous day

Date of Reporting: 26-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)	66778	56381	45772	24251	3057	196239
Peak Shortage (MW)	260	0	0	0	274	534
Energy Met (MU)	1395	1283	1087	525	61	4352
Hydro Gen (MU)	265	113	67	126	29	600
Wind Gen (MU)	14	46	115	-	-	176
Solar Gen (MU)*	132.07	50.24	104.33	2.58	1.20	290
Energy Shortage (MU)	3.12	0.00	0.00	0.14	0.75	4.01
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	67719	60524	51600	24290	3385	200912
Time Of Maximum Demand Met	19:38	18:48	10:33	19:13	18:02	19:14

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	0.023	0.00	0.00	3.89	3.89	87.40	8.71

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	9598	0	202.0	117.9	-0.8	220	0.00
	Haryana	9738	0	194.3	135.5	-1.5	175	0.00
	Rajasthan	12697	0	281.6	77.2	-2.6	304	0.00
	Delhi	5645	0	118.1	107.7	-2.0	122	0.00
	UP	24574	0	468.8	198.9	0.4	423	0.00
	Uttarakhand	2193	0	44.5	22.6	0.8	212	0.00
	HP	1740	0	33.8	12.6	-0.7	54	0.00
	J&K(UT) & Ladakh(UT)	2392	260	43.1	22.9	3.8	477	3.12
	Chandigarh	278	0	5.6	6.1	-0.5	0	0.00
Railways NR ISTS	164	0	3.2	3.5	-0.3	5	0.00	
WR	Chhattisgarh	4322	0	98.6	47.0	-1.4	157	0.00
	Gujarat	18122	0	379.9	175.7	-0.8	1040	0.00
	MP	11751	0	249.4	117.7	-3.8	239	0.00
	Maharashtra	22852	0	480.5	203.3	-2.9	601	0.00
	Goa	669	0	13.1	13.0	-0.6	122	0.00
	DNHDDPDCL	1301	0	29.7	29.7	0.0	43	0.00
	AMNSIL	867	0	19.5	9.3	0.1	282	0.00
	BALCO	518	0	12.4	12.5	-0.1	5	0.00
SR	Andhra Pradesh	9496	0	208.8	102.0	-2.6	440	0.00
	Telangana	11753	0	220.5	100.9	-0.9	678	0.00
	Karnataka	12709	0	235.8	69.2	-0.2	523	0.00
	Kerala	4113	0	80.1	67.8	1.1	229	0.00
	Tamil Nadu	15965	0	331.6	146.6	-1.7	637	0.00
	Puducherry	456	0	10.2	9.5	0.0	52	0.00
ER	Bihar	6039	0	112.6	107.3	0.0	417	0.14
	DVC	3374	0	75.2	-25.1	-0.3	199	0.00
	Jharkhand	1618	0	32.7	25.6	-1.5	126	0.00
	Odisha	5397	0	121.5	56.7	-2.2	316	0.00
	West Bengal	8600	0	181.9	66.1	-2.5	92	0.00
	Sikkim	94	0	1.3	1.4	-0.1	12	0.00
Railways ER ISTS	23	0	0.2	0.2	0.0	9	0.00	
NER	Arunachal Pradesh	155	0	2.9	2.5	0.1	34	0.00
	Assam	2142	255	39.4	30.8	2.1	312	0.62
	Manipur	189	0	2.8	2.7	0.1	24	0.00
	Meghalaya	332	6	5.8	1.0	-0.2	47	0.13
	Mizoram	119	0	1.8	1.5	-0.6	17	0.00
	Nagaland	171	0	2.9	2.6	-0.1	27	0.00
Tripura	333	0	5.6	5.5	0.1	50	0.00	

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

	Bhutan	Nepal	Bangladesh	Godda -> Bangladesh
Actual (MU)	34.8	14.6	-25.2	-28.7
Day Peak (MW)	1708.0	647.7	-1104.0	-1329.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	277.3	-232.7	112.3	-154.7	-2.3	0.0
Actual(MU)	259.0	-244.9	132.3	-154.7	0.7	-7.7
O/D/U/D(MU)	-18.3	-12.3	20.0	-0.1	3.0	-7.7

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL	% Share
Central Sector	4739	11124	4968	910	505	22245	46
State Sector	4486	11536	5982	3550	219	25773	54
Total	9225	22660	10950	4460	724	48018	100

G. Sourcewise generation (Gross) (MU)

	NR	WR	SR	ER	NER	All India	% Share
Coal	729	1331	592	614	12	3278	70
Lignite	29	13	39	0	0	82	2
Hydro	265	113	67	126	29	600	13
Nuclear	25	54	76	0	0	154	3
Gas, Naptha & Diesel	12	34	6	0	25	78	2
RES (Wind, Solar, Biomass & Others)	149	100	250	5	1	505	11
Total	1209	1645	1031	745	68	4697	100

Share of RES in total generation (%)	12.35	6.07	24.28	0.66	1.77	10.76
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	36.29	16.21	38.17	17.53	44.37	26.81

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.032
Based on State Max Demands	1.057

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

	Max Demand Met(MW)	Time	Shortage(MW)
Solar hr	192308	12:26	260
Non-Solar hr	200912	19:14	665

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: 26-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	24.8	-24.8
2	HVDC	PUSAULI B/B	-	0	247	0.0	3.7	-3.7
3	765 kV	GAYA-VARANASI	2	397	539	0.0	3.7	-3.7
4	765 kV	SASARAM-FATEHPUR	1	66	332	0.0	3.3	-3.3
5	765 kV	GAYA-BALIA	1	0	619	0.0	8.3	-8.3
6	400 kV	PUSAULI-VARANASI	1	0	118	0.0	1.8	-1.8
7	400 kV	PUSAULI-ALLAHABAD	1	0	148	0.0	1.9	-1.9
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	0	865	0.0	14.4	-14.4
9	400 kV	PATNA-BALIA	2	0	515	0.0	7.3	-7.3
10	400 kV	NAUBATPUR-BALIA	2	0	578	0.0	9.2	-9.2
11	400 kV	BIHARSHARIFF-BALIA	2	25	281	0.0	3.9	-3.9
12	400 kV	MOTIHARI-GORAKHPUR	2	0	448	0.0	7.7	-7.7
13	400 kV	BIHARSHARIFF-VARANASI	2	160	268	0.0	1.9	-1.9
14	220 kV	SAHUPURI-KARAMNANA	1	16	110	0.0	1.4	-1.4
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-CHANDAULI	1	0	0	0.0	0.0	0.0
ER-NR						0.5	93.4	-92.9
Import/Export of ER (With WR)								
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	775	409	2.8	0.0	2.8
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	891	453	9.5	0.0	9.5
3	765 kV	JHARSUGUDA-DURG	2	0	398	0.0	4.9	-4.9
4	400 kV	JHARSUGUDA-RAIGARH	4	293	304	0.0	0.9	-0.9
5	400 kV	RANCHI-SIPAT	2	255	123	2.3	0.0	2.3
6	220 kV	BUDHIPADAR-RAIGARH	1	5	147	0.0	1.3	-1.3
7	220 kV	BUDHIPADAR-KORBA	2	122	0	1.3	0.0	1.3
ER-WR						16.0	7.1	8.9
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	1989	0.0	42.5	-42.5
3	765 kV	ANGUL-SRIKAKULAM	2	0	2429	0.0	40.9	-40.9
4	400 kV	TALCHER-I/C	2	0	1265	0.0	11.4	-11.4
5	220 kV	BALIMELA-UPPER-SILERRU	1	0	0	0.0	0.0	0.0
ER-SR						0.0	90.9	-90.9
Import/Export of ER (With NER)								
1	400 kV	BINAGURI-BONGAIGAON	2	0	380	0.0	6.2	-6.2
2	400 kV	ALIPURDUAR-BONGAIGAON	2	0	354	0.0	5.0	-5.0
3	220 kV	ALIPURDUAR-SALAKATI	2	0	106	0.0	1.7	-1.7
ER-NER						0.0	12.8	-12.8
Import/Export of NER (With NR)								
1	HVDC	BISWANATH CHARIALI-AGRA	2	0	703	0.0	14.1	-14.1
NER-NR						0.0	14.1	-14.1
Import/Export of WR (With NR)								
1	HVDC	CHAMPA-KIRUKSHETRA	2	0	3013	0.0	69.5	-69.5
2	HVDC	VINDHYACHAL B/B	-	271	0	6.7	0.0	6.7
3	HVDC	MUNDRA-MOHINDERGARH	2	0	1447	0.0	23.6	-23.6
4	765 kV	GWALIOR-AGRA	2	63	2104	0.0	27.1	-27.1
5	765 kV	GWALIOR-PHAGI	2	449	1239	1.4	16.0	-14.6
6	765 kV	JABALPUR-ORAI	2	0	1100	0.0	22.8	-22.8
7	765 kV	GWALIOR-ORAI	1	873	0	13.8	0.0	13.8
8	765 kV	SATNA-ORAI	1	0	1036	0.0	17.9	-17.9
9	765 kV	BANASKANTHA-CHITORGARH	2	1519	99	13.9	0.0	13.9
10	765 kV	VINDHYACHAL-VARANASI	2	0	2654	0.0	46.1	-46.1
11	400 kV	ZERDA-KANKROLI	1	292	32	2.7	0.1	2.6
12	400 kV	ZERDA -BHINMAL	1	587	132	4.1	0.0	4.1
13	400 kV	VINDHYACHAL -RIHAND	1	962	0	22.0	0.0	22.0
14	400 kV	RAPP-SHUJALPUR	2	349	448	0.0	1.5	-1.5
15	220 kV	BHANPURA-RANPUR	1	0	90	0.0	1.7	-1.7
16	220 kV	BHANPURA-MORAK	1	0	30	0.0	1.9	-1.9
17	220 kV	MEHGAON-AURAIYA	1	117	0	1.6	0.0	1.6
18	220 kV	MALANPUR-AURAIYA	1	88	0	1.0	0.0	1.0
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						67.1	228.1	-161.0
Import/Export of WR (With SR)								
1	HVDC	BHADRAWATI B/B	-	0	506	0.0	12.0	-12.0
2	HVDC	RAIGARH-PUGALUR	2	0	5009	0.0	69.0	-69.0
3	765 kV	SOLAPUR-RAICHUR	2	1220	882	10.1	2.2	7.9
4	765 kV	WARDHA-NIZAMABAD	2	0	2282	0.0	28.9	-28.9
5	400 kV	KOLHAPUR-KUDGI	2	1460	0	25.0	0.0	25.0
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	2.1	0.0	2.1
WR-SR						37.3	112.1	-74.8

INTERNATIONAL EXCHANGES					Import(+ve)/Export(-ve) Energy Exchange (MU)		
State	Region	Line Name	Max (MW)	Min (MW)	Avg (MW)		
BHUTAN	ER	400kV MANGDECHHU-ALIPURDUAR 1,2&3 i.e. ALIPURDUAR RECEIPT (from MANGDECHHU HEP 4*180MW)	620	379	508	12.18	
	ER	400kV TALA-BINAGURI 1,2,4 (& 400kV MALBASE - BINAGURI) i.e. BINAGURI RECEIPT (from TALA HEP 6*170MW)	1030	969	973	23.34	
	ER	220kV CHUKHA-BIRPARA 1&2 (& 220kV MALBASE - BIRPARA) i.e. BIRPARA RECEIPT (from CHUKHA HEP 4*84MW)	72	26	48	1.14	
	NER	132kV GELEPHU-SALAKATI	-31	-11	-22	-0.53	
	NER	132kV MOTANGA-RANGIA	-63	-46	-55	-1.31	
NEPAL	NR	132kV MAHENDRANAGAR-TANAKPUR(NHPC)	-44	0	54	1.30	
	ER	NEPAL IMPORT (FROM BIHAR)	0	0	0	0.00	
	ER	400kV DHALKEBAR-MUZAFFARPUR 1&2	573	462	555	13.33	
BANGLADESH	ER	BHERAMARA B/B HVDC (B'DESH)	-946	-811	-916	-21.98	
	ER (Isolated from Indian Grid)	400kV GODDA_TPS-RAHANPUR (B'DESH) D/C	-1329	-1100	-1195	-28.69	
	NER	132kV COMILLA-SURAJMANI NAGAR 1&2	-158	0	-135	-3.24	

