



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: 10th 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 09.09.2023.

महोदय/Dear Sir,

आईईजीसी-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 09-सितम्बर-2023 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 09th September 2023, is available at the NLDC website.

धन्यवाद,

Report for previous day

Date of Reporting: 10-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)	67419	57619	44709	25861	3447	199055
Peak Shortage (MW)	150	0	0	171	10	331
Energy Met (MU)	1572	1349	1093	556	68	4638
Hydro Gen (MU)	321	32	54	128	35	571
Wind Gen (MU)	8	212	245	-	-	465
Solar Gen (MU)*	128.29	41.94	103.98	2.19	1.02	277
Energy Shortage (MU)	1.88	0.00	0.00	0.75	2.37	5.00
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	71897	60629	51504	26842	3552	205024
Time Of Maximum Demand Met	00:00	18:53	14:53	19:15	18:39	19:13

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	0.028	0.00	0.00	5.22	5.22	83.34	11.45

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	14742	0	338.9	218.3	0.2	142	0.00
	Haryana	11369	0	241.9	196.5	-2.5	252	0.00
	Rajasthan	15797	0	340.8	147.6	-2.6	319	0.00
	Delhi	5920	0	113.1	96.9	-4.3	85	0.00
	UP	19958	0	396.6	189.8	-2.1	751	0.00
	Uttarakhand	2105	0	47.0	24.8	-0.6	197	0.00
	HP	1729	0	35.0	9.1	-0.5	107	0.08
	J&K(UT) & Ladakh(UT)	2534	130	48.6	24.0	2.1	314	1.80
	Chandigarh	332	0	6.9	7.1	-0.2	24	0.00
Railways NR ISTS	162	0	3.2	3.6	-0.4	3	0.00	
WR	Chhattisgarh	4883	0	109.2	45.2	-0.7	268	0.00
	Gujarat	19628	0	423.9	167.0	-4.1	1070	0.00
	MP	10825	0	231.3	145.9	-2.8	287	0.00
	Maharashtra	23232	0	510.6	171.6	-0.9	539	0.00
	Goa	670	0	13.6	13.7	-0.2	40	0.00
	DNHDDPDCL	1277	0	29.7	29.8	-0.1	45	0.00
	AMNSIL	836	0	18.0	5.8	0.0	311	0.00
	BALCO	522	0	12.5	12.5	0.0	12	0.00
SR	Andhra Pradesh	10341	0	221.6	64.2	-3.9	704	0.00
	Telangana	10299	0	203.3	97.8	-0.4	1130	0.00
	Karnataka	12290	0	228.8	59.2	-2.6	481	0.00
	Kerala	3797	0	77.0	63.3	0.8	250	0.00
	Tamil Nadu	16553	0	352.2	142.0	-10.4	494	0.00
	Puducherry	445	0	10.2	9.7	-0.2	29	0.00
ER	Bihar	6255	0	124.8	122.2	-2.4	382	0.24
	DVC	3636	0	76.4	-41.2	-0.6	417	0.00
	Jharkhand	1729	0	34.2	29.9	0.1	246	0.51
	Odisha	5774	0	122.6	47.5	-0.6	382	0.00
	West Bengal	9497	0	196.9	70.5	-2.2	306	0.00
	Sikkim	77	0	1.1	1.2	-0.1	7	0.00
	Railways ER ISTS	18	0	0.2	0.2	0.0	0	0.00
NER	Arunachal Pradesh	170	0	2.9	2.7	-0.2	32	0.00
	Assam	2329	0	46.2	35.0	3.0	296	2.20
	Manipur	193	0	2.7	2.7	0.1	26	0.00
	Meghalaya	320	10	5.7	0.8	0.0	32	0.17
	Mizoram	128	0	2.0	1.5	-0.3	3	0.00
	Nagaland	169	0	2.9	2.5	-0.1	9	0.00
	Tripura	334	0	5.9	5.6	0.3	68	0.00

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

	Bhutan	Nepal	Bangladesh	Godda -> Bangladesh
Actual (MU)	30.7	11.0	-25.7	-27.0
Day Peak (MW)	1499.0	435.0	-1109.0	-1416.1

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	434.1	-282.1	2.8	-150.3	-4.4	0.0
Actual(MU)	410.3	-279.7	8.4	-146.8	1.7	-6.1
O/D/U/D(MU)	-23.8	2.5	5.7	3.5	6.1	-6.1

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL	% Share
Central Sector	3789	10486	3748	1600	355	19977	44
State Sector	6636	11562	4742	2514	155	25608	56
Total	10425	22047	8490	4114	510	45585	100

G. Sourcewise generation (Gross) (MU)

	NR	WR	SR	ER	NER	All India	% Share
Coal	703	1367	600	632	13	3316	66
Lignite	24	14	44	0	0	82	2
Hydro	321	32	54	128	35	571	11
Nuclear	29	54	76	0	0	159	3
Gas, Naptha & Diesel	21	27	6	0	27	81	2
RES (Wind, Solar, Biomass & Others)	143	257	377	4	1	782	16
Total	1244	1750	1157	764	76	4991	100

Share of RES in total generation (%)	11.54	14.67	32.61	0.46	1.34	15.67
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	39.75	19.57	43.81	17.24	47.47	30.29

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.045
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	203825	10:51	194
Non-Solar hr	205024	19:13	311

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: 10-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	2502	0.0	45.4	-45.4
2	HVDC	PUSAULI B/B	-	0	297	0.0	7.2	-7.2
3	765 kV	GAYA-VARANASI	2	493	652	0.0	2.7	-2.7
4	765 kV	SASARAM-FATEHPUR	1	147	287	0.0	3.0	-3.0
5	765 kV	GAYA-BALIA	1	0	672	0.0	9.4	-9.4
6	400 kV	PUSAULI-VARANASI	1	0	180	0.0	3.6	-3.6
7	400 kV	PUSAULI-ALLAHABAD	1	0	184	0.0	3.5	-3.5
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	0	571	0.0	8.7	-8.7
9	400 kV	PATNA-BALIA	2	0	543	0.0	8.9	-8.9
10	400 kV	NAUBATPUR-BALIA	2	0	570	0.0	9.5	-9.5
11	400 kV	BIHARSHARIFF-BALIA	2	61	191	0.0	2.0	-2.0
12	400 kV	MOTIHARI-GORAKHPUR	2	0	377	0.0	5.7	-5.7
13	400 kV	BIHARSHARIFF-VARANASI	2	171	163	0.0	1.0	-1.0
14	220 kV	SAHUPURI-KARAMNANA	1	0	0	0.0	0.0	0.0
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	110.5	-110.0
Import/Export of ER (With WR)								
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	326	1361	0.0	8.5	-8.5
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	1374	12	19.0	0.0	19.0
3	765 kV	JHARSUGUDA-DURG	2	7	344	0.0	4.1	-4.1
4	400 kV	JHARSUGUDA-RAIGARH	4	176	304	0.0	1.9	-1.9
5	400 kV	RANCHI-SIPAT	2	341	88	3.0	0.0	3.0
6	220 kV	BUDHIPADAR-RAIGARH	1	58	103	0.0	0.7	-0.7
7	220 kV	BUDHIPADAR-KORBA	2	102	0	1.2	0.0	1.2
					ER-WR	23.2	15.0	8.1
Import/Export of ER (With SR)								
1	HVDC	JEYPORE-GAZUWAKA B/B	2	0	338	0.0	7.5	-7.5
2	HVDC	TALCHER-KOLAR BIPOLE	2	0	1256	0.0	30.1	-30.1
3	765 kV	ANGUL-SRIKAKULAM	2	0	2050	0.0	29.6	-29.6
4	400 kV	TALCHER-I/C	2	171	509	1.0	0.0	1.0
5	220 kV	BALIMELA-UPPER-SILERRU	1	0	0	0.0	0.0	0.0
					ER-SR	0.0	67.2	-67.2
Import/Export of ER (With NER)								
1	400 kV	BINAGURI-BONGAIGAON	2	0	587	0.0	10.5	-10.5
2	400 kV	ALIPURDUAR-BONGAIGAON	2	218	381	0.0	3.2	-3.2
3	220 kV	ALIPURDUAR-SALAKATI	2	0	108	0.0	1.7	-1.7
					ER-NER	0.0	15.4	-15.4
Import/Export of NER (With NR)								
1	HVDC	BISWANATH CHARIALI-AGRA	2	0	704	0.0	14.7	-14.7
					NER-NR	0.0	14.7	-14.7
Import/Export of WR (With NR)								
1	HVDC	CHAMPA-KIRUKSHETRA	2	0	4523	0.0	94.3	-94.3
2	HVDC	VINDHYACHAL B/B	-	436	53	6.0	0.0	5.9
3	HVDC	MUNDRA-MOHINDERGARH	2	0	1449	0.0	32.5	-32.5
4	765 kV	GWALIOR-AGRA	2	0	2026	0.0	32.5	-32.5
5	765 kV	GWALIOR-PHAGI	2	0	2015	0.0	29.2	-29.2
6	765 kV	JABALPUR-ORAI	2	0	1119	0.0	36.8	-36.8
7	765 kV	GWALIOR-ORAI	1	784	0	12.4	0.0	12.4
8	765 kV	SATNA-ORAI	1	0	1085	0.0	22.2	-22.2
9	765 kV	BANASKANTHA-CHITORGARH	2	351	1268	0.0	9.7	-9.7
10	765 kV	VINDHYACHAL-VARANASI	2	0	3337	0.0	63.8	-63.8
11	400 kV	ZERDA-KANKROLI	1	97	218	0.3	1.7	-1.4
12	400 kV	ZERDA-BHINMAL	1	144	551	0.0	5.1	-5.1
13	400 kV	VINDHYACHAL-RIHAND	1	925	0	22.0	0.0	22.0
14	400 kV	RAPP-SHUALPUR	2	72	621	0.0	6.8	-6.8
15	220 kV	BHANPURA-RANPUR	1	0	90	0.0	1.7	-1.7
16	220 kV	BHANPURA-MORAK	1	0	30	0.0	2.4	-2.4
17	220 kV	MEHGAON-AURAIYA	1	80	0	0.8	0.0	0.8
18	220 kV	MALANPUR-AURAIYA	1	56	11	0.4	0.0	0.4
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	41.8	338.7	-296.9
Import/Export of WR (With SR)								
1	HVDC	BHADRAWATI B/B	-	299	0	7.2	0.0	7.2
2	HVDC	RAIGARH-PUGALUR	2	0	2001	0.0	24.6	-24.6
3	765 kV	SOLAPUR-RAICHUR	2	2209	584	24.3	0.6	23.7
4	765 kV	WARDHA-NIZAMABAD	2	61	1986	0.0	17.3	-17.3
5	400 kV	KOLHAPUR-KUDGI	2	2035	0	34.3	0.0	34.3
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	118	2.3	0.0	2.3
					WR-SR	68.1	42.5	25.6

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)	563	380	482	11.56	
	ER	400kV TALA-BINAGURI 1,2,4 (& 400kV MALBASE - BINAGURI) i.e. BINAGURI RECEIPT (from TALA HEP 6*170MW)	890	687	710	17.03	
	ER	220kV CHUKHA-BIRPARA 1&2 (& 220kV MALBASE - BIRPARA) i.e. BIRPARA RECEIPT (from CHUKHA HEP 4*84MW)	81	32	57	1.37	
	NER	132kV GELEPHU-SALAKATI	35	17	28	0.68	
	NER	132kV MOTANGA-RANGIA	0	0	0	0.00	
NEPAL	NR	132kV MAHENDRANAGAR-TANAKPUR(NHPC)	-48	0	23	0.55	
	ER	NEPAL IMPORT (FROM BIHAR)	0	0	0	0.00	
	ER	400kV DHALKEBAR-MUZAFFARPUR 1&2	483	274	436	10.46	
BANGLADESH	ER	BHERAMARA B/B HVDC (B'DESH)	-940	-822	-921	-22.11	
	ER (Isolated from Indian Grid)	400kV GODDA_TPS-RAHANPUR (B'DESH) D/C	-1416	-848	-1125	-27.00	
	NER	132kV COMILLA-SURAJMANI NAGAR 1&2	-169	0	-148	-3.54	

