



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: 12 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 11.09.2023.

महोदय/Dear Sir,

आईईजीसी-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 11-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 11 September 2023, is available at the NLDC website.

धन्यवाद,

Report for previous day

Date of Reporting: 12-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)	68868	60268	45464	27822	3380	205802
Peak Shortage (MW)	0	0	0	79	14	93
Energy Met (MU)	1519	1410	1099	626	66	4720
Hydro Gen (MU)	321	32	66	120	31	570
Wind Gen (MU)	30	214	224	-	-	468
Solar Gen (MU)*	129.49	53.75	97.96	2.58	1.01	285
Energy Shortage (MU)	0.23	0.00	0.00	0.63	0.09	0.95
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	70281	63560	53143	28936	3490	210647
Time Of Maximum Demand Met	22:09	19:20	12:31	21:01	18:31	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	0.025	0.00	0.00	1.15	1.15	82.37	16.48

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	14461	0	325.9	213.5	0.2	270	0.00
	Haryana	10748	0	222.2	181.1	-0.1	271	0.00
	Rajasthan	15715	0	335.8	122.7	-1.9	384	0.00
	Delhi	5233	0	107.1	94.5	-2.9	40	0.00
	UP	21274	0	387.8	171.4	-0.7	682	0.00
	Uttarakhand	2171	0	42.5	20.0	0.5	132	0.00
	HP	1721	0	36.2	11.0	-0.1	128	0.03
	J&K(UT) & Ladakh(UT)	2659	200	51.3	25.5	3.2	374	0.20
	Chandigarh	350	0	6.9	7.1	-0.2	27	0.00
Railways NR ISTS	155	0	3.2	3.6	-0.3	0	0.00	
WR	Chhattisgarh	5122	0	116.0	58.1	0.0	341	0.00
	Gujarat	21405	0	462.2	185.3	-1.5	636	0.00
	MP	11220	0	234.4	120.6	-3.2	500	0.00
	Maharashtra	23588	0	525.0	184.8	-2.4	756	0.00
	Goa	662	0	13.7	13.6	0.0	46	0.00
	DNHDDPDCL	1300	0	29.4	29.2	0.2	67	0.00
	AMNSIL	790	0	17.2	4.7	-0.2	322	0.00
	BALCO	520	0	12.4	11.9	0.5	329	0.00
SR	Andhra Pradesh	10270	0	213.4	69.2	-3.1	945	0.00
	Telangana	10610	0	202.4	100.8	0.9	760	0.00
	Karnataka	13630	0	245.3	80.3	2.5	1700	0.00
	Kerala	3800	0	75.8	61.4	1.0	178	0.00
	Tamil Nadu	16809	0	352.2	138.2	-1.6	757	0.00
	Puducherry	438	0	9.8	9.3	-0.2	45	0.00
ER	Bihar	7387	0	152.0	145.8	0.8	296	0.21
	DVC	3495	0	81.3	-42.3	0.4	300	0.00
	Jharkhand	1816	0	37.9	30.3	-0.2	178	0.42
	Odisha	5793	0	134.9	59.3	-0.3	419	0.00
	West Bengal	10184	0	218.4	99.4	-0.8	258	0.00
	Sikkim	90	0	1.2	1.4	-0.1	18	0.00
	Railways ER ISTS	17	0	0.2	0.2	0.0	5	0.00
NER	Arunachal Pradesh	176	0	3.1	3.0	-0.2	26	0.00
	Assam	2283	0	44.3	35.5	1.3	219	0.00
	Manipur	191	0	2.7	2.8	0.0	28	0.00
	Meghalaya	299	14	5.3	1.6	-0.3	100	0.09
	Mizoram	114	0	1.9	1.6	-0.3	15	0.00
	Nagaland	172	0	2.9	2.7	-0.2	13	0.00
	Tripura	314	0	6.1	6.1	0.1	42	0.00

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

	Bhutan	Nepal	Bangladesh	Godda -> Bangladesh
Actual (MU)	31.4	10.5	-25.5	-31.9
Day Peak (MW)	1511.9	443.0	-1099.0	-1408.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	358.1	-281.3	30.1	-104.2	-2.7	0.0
Actual(MU)	327.6	-277.4	52.4	-111.9	0.2	-9.1
O/D/U/D(MU)	-30.6	3.9	22.3	-7.6	2.9	-9.1

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL	% Share
Central Sector	3859	9936	4658	500	405	19357	43
State Sector	6266	10854	5472	3329	157	26077	57
Total	10125	20790	10130	3829	562	45434	100

G. Sourcewise generation (Gross) (MU)

	NR	WR	SR	ER	NER	All India	% Share
Coal	710	1411	580	669	14	3384	67
Lignite	27	14	42	0	0	83	2
Hydro	321	32	66	120	31	570	11
Nuclear	30	54	76	0	0	159	3
Gas, Naptha & Diesel	19	32	6	0	28	86	2
RES (Wind, Solar, Biomass & Others)	167	269	349	4	1	791	16
Total	1275	1811	1119	793	74	5072	100

Share of RES in total generation (%)	13.11	14.87	31.20	0.48	1.37	15.59
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	40.61	19.57	43.87	15.64	43.58	29.95

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.041
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	209713	14:53	0
Non-Solar hr	210647	19:18	433

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: 12-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	1501	0.0	26.8	-26.8
2	HVDC	PUSAULI B/B	-	0	297	0.0	7.1	-7.1
3	765 kV	GAYA-VARANASI	2	616	400	2.5	0.0	2.5
4	765 kV	SASARAM-FATEHPUR	1	229	239	0.0	1.2	-1.2
5	765 kV	GAYA-BALIA	1	0	584	0.0	10.0	-10.0
6	400 kV	PUSAULI-VARANASI	1	0	197	0.0	3.9	-3.9
7	400 kV	PUSAULI-ALLAHABAD	1	0	165	0.0	3.2	-3.2
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	15	566	0.0	7.0	-7.0
9	400 kV	PATNA-BALIA	2	0	524	0.0	8.7	-8.7
10	400 kV	NAUBATPUR-BALIA	2	0	539	0.0	8.7	-8.7
11	400 kV	BIHARSHARIFF-BALIA	2	199	178	0.0	0.5	-0.5
12	400 kV	MOTIHARI-GORAKHPUR	2	0	347	0.0	5.2	-5.2
13	400 kV	BIHARSHARIFF-VARANASI	2	257	145	0.7	0.0	0.7
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						3.7	82.3	-78.6
Import/Export of ER (With WR)								
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	509	551	2.2	0.0	2.2
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	1470	6	22.0	0.0	22.0
3	765 kV	JHARSUGUDA-DURG	2	0	378	0.0	4.2	-4.2
4	400 kV	JHARSUGUDA-RAIGARH	4	20	462	0.0	3.8	-3.8
5	400 kV	RANCHI-SIPAT	2	274	140	3.1	0.0	3.1
6	220 kV	BUDHIPADAR-RAIGARH	1	0	132	0.0	1.6	-1.6
7	220 kV	BUDHIPADAR-KORBA	2	45	19	0.4	0.0	0.4
ER-WR						27.7	9.6	18.2
Import/Export of ER (With SR)								
1	HVDC	JEYPORE-GAZUWAKA B/B	2	0	137	0.0	2.7	-2.7
2	HVDC	TALCHER-KOLAR BIPOLE	2	0	1241	0.0	30.1	-30.1
3	765 kV	ANGUL-SRIKAKULAM	2	0	2570	0.0	41.4	-41.4
4	400 kV	TALCHER-I/C	2	172	0	3.0	0.0	3.0
5	220 kV	BALIMELA-UPPER-SILERRU	1	0	0	0.0	0.0	0.0
ER-SR						0.0	74.2	-74.2
Import/Export of ER (With NER)								
1	400 kV	BINAGURI-BONGAIGAON	2	0	512	0.0	8.1	-8.1
2	400 kV	ALIPURDUAR-BONGAIGAON	2	0	224	0.0	6.5	-6.5
3	220 kV	ALIPURDUAR-SALAKATI	2	0	88	0.0	1.9	-1.9
ER-NER						0.0	16.5	-16.5
Import/Export of NER (With NR)								
1	HVDC	BISWANATH CHARIALI-AGRA	2	0	703	0.0	16.8	-16.8
NER-NR						0.0	16.8	-16.8
Import/Export of WR (With NR)								
1	HVDC	CHAMPA-KIRUKSHETRA	2	0	4511	0.0	87.9	-87.9
2	HVDC	VINDHYACHAL B/B	-	437	0	11.4	0.0	11.4
3	HVDC	MUNDRA-MOHINDERGARH	2	0	1449	0.0	36.3	-36.3
4	765 kV	GWALIOR-AGRA	2	0	1815	0.0	28.8	-28.8
5	765 kV	GWALIOR-PHAGI	2	5	1777	0.0	24.2	-24.2
6	765 kV	JABALPUR-ORAI	2	0	949	0.0	28.2	-28.2
7	765 kV	GWALIOR-ORAI	1	948	0	0.0	13.8	-13.8
8	765 kV	SATNA-ORAI	1	0	1005	0.0	20.2	-20.2
9	765 kV	BANASKANTHA-CHITORGARH	2	707	586	0.6	0.0	0.6
10	765 kV	VINDHYACHAL-VARANASI	2	0	3318	0.0	61.4	-61.4
11	400 kV	ZERDA-KANKROLI	1	153	60	1.4	0.2	1.3
12	400 kV	ZERDA -BHINMAL	1	275	158	0.8	0.0	0.8
13	400 kV	VINDHYACHAL -RIHAND	1	0	0	22.0	0.0	22.0
14	400 kV	RAPP-SHUJALPUR	2	117	461	0.0	5.2	-5.2
15	220 kV	BHANPURA-RANPUR	1	0	88	0.0	1.5	-1.5
16	220 kV	BHANPURA-MORAK	1	0	30	0.0	2.3	-2.3
17	220 kV	MEHGAON-AURAIYA	1	98	1	0.7	0.0	0.7
18	220 kV	MALANPUR-AURAIYA	1	73	0	0.8	0.0	0.8
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						37.7	309.7	-272.0
Import/Export of WR (With SR)								
1	HVDC	BHADRAWATI B/B	-	300	0	7.2	0.0	7.2
2	HVDC	RAIGARH-PUGALUR	2	0	1501	0.0	25.1	-25.1
3	765 kV	SOLAPUR-RAICHUR	2	1446	1329	9.9	4.2	5.7
4	765 kV	WARDHA-NIZAMABAD	2	0	2519	0.0	30.8	-30.8
5	400 kV	KOLHAPUR-KUDGI	2	1498	0	27.2	0.0	27.2
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	2.2	0.0	2.2
WR-SR						46.5	60.1	-13.6

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)	469	469	469	11.71	
	ER	400kV TALA-BINAGURI 1,2,4 (& 400kV MALBASE - BINAGURI) i.e. BINAGURI RECEIPT (from TALA HEP 6*170MW)	798	654	721	17.31	
	ER	220kV CHUKHA-BIRPARA 1&2 (& 220kV MALBASE - BIRPARA) i.e. BIRPARA RECEIPT (from CHUKHA HEP 4*84MW)	102	29	60	1.44	
	NER	132kV GELEPHU-SALAKATI	44	4	27	0.66	
	NER	132kV MOTANGA-RANGIA	55	0	11	0.27	
NEPAL	NR	132kV MAHENDRANAGAR-TANAKPUR(NHPC)	-36	0	45	1.07	
	ER	NEPAL IMPORT (FROM BIHAR)	0	0	0	0.00	
	ER	400kV DHALKEBAR-MUZAFFARPUR 1&2	479	300	391	9.39	
BANGLADESH	ER	BHERAMARA B/B HVDC (B'DESH)	-939	-826	-913	-21.92	
	ER (Isolated from Indian Grid)	400kV GODDA_TPS-RAHANPUR (B'DESH) D/C	-1408	0	-1329	-31.89	
	NER	132kV COMILLA-SURAJMANI NAGAR 1&2	-160	0	-148	-3.54	

