



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: 08th 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 07.09.2023.

महोदय/Dear Sir,

आईईजीसी-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 07-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 07th September 2023, is available at the NLDC website.

धन्यवाद,

Report for previous day

Date of Reporting: 08-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)	71860	55165	43813	25403	3125	199366
Peak Shortage (MW)	0	0	0	0	17	17
Energy Met (MU)	1739	1376	1035	554	67	4770
Hydro Gen (MU)	325	42	52	114	33	565
Wind Gen (MU)	10	190	225	-	-	425
Solar Gen (MU)*	133.85	44.76	98.96	5.65	1.11	284
Energy Shortage (MU)	1.32	0.00	0.00	0.26	0.47	2.05
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	80494	61407	48930	25848	3124	213344
Time Of Maximum Demand Met	14:19	09:45	11:26	20:04	20:39	12:32

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	0.034	0.00	0.00	2.18	2.18	80.08	17.74

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	14826	0	333.8	200.9	0.3	270	0.00
	Haryana	12246	0	256.2	197.6	-0.3	206	0.00
	Rajasthan	16272	0	346.4	146.2	-1.0	287	0.66
	Delhi	6371	0	130.1	112.9	-3.5	222	0.00
	UP	24332	0	522.6	239.5	-0.7	687	0.00
	Uttarakhand	2331	0	51.0	28.2	-0.8	183	0.08
	HP	1703	0	35.9	8.6	-0.3	58	0.03
	J&K(UT) & Ladakh(UT)	2605	0	52.4	25.0	4.2	345	0.55
	Chandigarh	351	0	6.8	7.1	-0.3	30	0.00
Railways NR ISTS	161	0	3.3	3.6	-0.3	5	0.00	
WR	Chhattisgarh	4638	0	106.4	46.7	-1.9	186	0.00
	Gujarat	18235	0	410.9	135.6	-7.2	807	0.00
	MP	11301	0	247.6	148.0	-3.1	450	0.00
	Maharashtra	24627	0	536.8	189.5	-4.1	566	0.00
	Goa	658	0	13.8	13.9	-0.2	69	0.00
	DNHDDPDCL	1266	0	29.4	29.3	0.1	57	0.00
	AMNSIL	872	0	18.2	6.8	0.2	257	0.00
	BALCO	521	0	12.4	12.5	-0.1	5	0.00
SR	Andhra Pradesh	9327	0	204.0	52.8	-5.0	375	0.00
	Telangana	9538	0	183.9	66.1	-1.5	498	0.00
	Karnataka	11556	0	223.3	63.4	-4.4	418	0.00
	Kerala	3702	0	77.3	66.6	0.3	305	0.00
	Tamil Nadu	15728	0	336.9	130.5	-5.2	660	0.00
	Puducherry	402	0	9.1	8.9	-0.6	59	0.00
ER	Bihar	6693	0	135.0	131.6	-2.1	350	0.09
	DVC	3353	0	75.0	-39.4	0.0	277	0.00
	Jharkhand	1622	171	35.7	30.7	0.1	152	0.17
	Odisha	5041	0	105.5	37.4	-3.6	269	0.00
	West Bengal	9305	0	201.6	85.1	-3.5	434	0.00
	Sikkim	81	0	1.2	1.2	0.0	21	0.00
Railways ER ISTS	18	0	0.2	0.2	0.0	0	0.00	
NER	Arunachal Pradesh	142	0	2.9	2.9	-0.4	24	0.00
	Assam	2228	0	46.9	38.4	1.3	225	0.17
	Manipur	189	0	2.6	2.7	-0.1	23	0.00
	Meghalaya	304	17	5.0	1.1	-0.3	55	0.30
	Mizoram	120	0	1.6	1.3	-0.4	11	0.00
	Nagaland	151	0	2.7	2.7	-0.3	10	0.00
Tripura	290	0	5.4	5.6	0.2	119	0.00	

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

	Bhutan	Nepal	Bangladesh	Godda -> Bangladesh
Actual (MU)	31.3	9.1	-25.3	-32.5
Day Peak (MW)	1430.0	414.0	-1145.0	-1443.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	464.3	-293.3	-29.5	-136.4	-5.1	0.0
Actual(MU)	455.6	-290.1	-27.4	-139.6	-2.3	-3.8
O/D/U/D(MU)	-8.7	3.2	2.0	-3.2	2.9	-3.8

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL	% Share
Central Sector	4010	11264	4248	1660	205	21387	46
State Sector	5991	9619	5490	3124	155	24378	54
Total	10001	20882	9738	4784	360	45765	100

G. Sourcewise generation (Gross) (MU)

	NR	WR	SR	ER	NER	All India	% Share
Coal	812	1396	609	646	14	3477	68
Lignite	29	13	45	0	0	87	2
Hydro	325	42	52	114	33	565	11
Nuclear	29	54	65	0	0	148	3
Gas, Naptha & Diesel	27	52	6	0	28	114	2
RES (Wind, Solar, Biomass & Others)	150	237	360	7	1	756	15
Total	1373	1794	1137	767	76	5147	100

Share of RES in total generation (%)	10.96	13.22	31.68	0.90	1.45	14.69
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	36.78	18.55	41.99	15.74	44.54	28.56

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.030
Based on State Max Demands	1.045

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

	Max Demand Met(MW)	Time	Shortage(MW)
Solar hr	213344	12:32	281
Non-Solar hr	201099	19:21	263

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: 08-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	802	0.0	18.6	-18.6
2	HVDC	PUSAULI B/B	-	0	99	0.0	2.5	-2.5
3	765 kV	GAYA-VARANASI	2	203	599	0.0	6.4	-6.4
4	765 kV	SASARAM-FATEHPUR	1	0	484	0.0	7.7	-7.7
5	765 kV	GAYA-BALIA	1	0	773	0.0	15.0	-15.0
6	400 kV	PUSAULI-VARANASI	1	0	63	0.0	0.7	-0.7
7	400 kV	PUSAULI-ALLAHABAD	1	0	101	0.0	1.6	-1.6
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	0	834	0.0	15.2	-15.2
9	400 kV	PATNA-BALIA	2	0	566	0.0	11.1	-11.1
10	400 kV	NAUBATPUR-BALIA	2	0	606	0.0	11.4	-11.4
11	400 kV	BIHARSHARIFF-BALIA	2	0	320	0.0	4.7	-4.7
12	400 kV	MOTIHARI-GORAKHPUR	2	0	447	0.0	8.2	-8.2
13	400 kV	BIHARSHARIFF-VARANASI	2	107	244	0.0	2.6	-2.6
14	220 kV	SAHUPURI-KARAMNANA	1	0	1	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	105.5	-105.1
Import/Export of ER (With WR)								
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	0	1302	0.0	17.2	-17.2
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	1557	0	25.2	0.0	25.2
3	765 kV	JHARSUGUDA-DURG	2	0	312	0.0	4.1	-4.1
4	400 kV	JHARSUGUDA-RAIGARH	4	117	336	0.0	2.6	-2.6
5	400 kV	RANCHI-SIPAT	2	340	0	4.7	0.0	4.7
6	220 kV	BUDHIPADAR-RAIGARH	1	0	131	0.0	1.4	-1.4
7	220 kV	BUDHIPADAR-KORBA	2	69	6	0.8	0.0	0.8
ER-WR						30.7	25.3	5.4
Import/Export of ER (With SR)								
1	HVDC	JEYPORE-GAZUWAKA B/B	2	0	345	0.0	7.5	-7.5
2	HVDC	TALCHER-KOLAR BIPOLE	2	0	1238	0.0	30.1	-30.1
3	765 kV	ANGUL-SRIKAKULAM	2	0	2117	0.0	26.0	-26.0
4	400 kV	TALCHER-I/C	2	169	2	2.7	0.0	2.7
5	220 kV	BALIMELA-UPPER-SILERRU	1	0	0	0.0	0.0	0.0
ER-SR						0.0	63.6	-63.6
Import/Export of ER (With NER)								
1	400 kV	BINAGURI-BONGAIGAON	2	0	392	0.0	5.5	-5.5
2	400 kV	ALIPURDUAR-BONGAIGAON	2	91	446	0.0	4.1	-4.1
3	220 kV	ALIPURDUAR-SALAKATI	2	12	100	0.0	1.5	-1.5
ER-NER						0.0	11.0	-11.0
Import/Export of NER (With NR)								
1	HVDC	BISWANATH CHARIALI-AGRA	2	0	604	0.0	14.6	-14.6
NER-NR						0.0	14.6	-14.6
Import/Export of WR (With NR)								
1	HVDC	CHAMPA-KIRUKSHETRA	2	0	4533	0.0	87.5	-87.5
2	HVDC	VINDHYACHAL B/B	-	137	198	3.1	0.7	2.4
3	HVDC	MUNDRA-MOHINDERGARH	2	0	1449	0.0	36.3	-36.3
4	765 kV	GWALIOR-AGRA	2	0	2394	0.0	45.5	-45.5
5	765 kV	GWALIOR-PHAGI	2	0	1948	0.0	33.6	-33.6
6	765 kV	JABALPUR-ORAI	2	0	1302	0.0	49.0	-49.0
7	765 kV	GWALIOR-ORAI	1	754	0	14.0	0.0	14.0
8	765 kV	SATNA-ORAI	1	0	1105	0.0	23.5	-23.5
9	765 kV	BANASKANTHA-CHITORGARH	2	0	1527	0.0	18.0	-18.0
10	765 kV	VINDHYACHAL-VARANASI	2	0	3359	0.0	66.0	-66.0
11	400 kV	ZERDA-KANKROLI	1	0	286	0.0	2.9	-2.9
12	400 kV	ZERDA -BHINMAL	1	62	613	0.0	6.8	-6.8
13	400 kV	VINDHYACHAL -RIHAND	1	925	0	23.0	0.0	23.0
14	400 kV	RAPP-SHUALPUR	2	0	707	0.0	9.6	-9.6
15	220 kV	BHANPURA-RANPUR	1	0	72	0.0	0.3	-0.3
16	220 kV	BHANPURA-MORAK	1	0	30	0.0	2.0	-2.0
17	220 kV	MEHGAON-AURAIYA	1	80	14	0.8	0.0	0.8
18	220 kV	MALANPUR-AURAIYA	1	56	29	0.3	0.1	0.3
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						41.3	381.7	-340.5
Import/Export of WR (With SR)								
1	HVDC	BHADRAWATI B/B	-	997	0	14.8	0.0	14.8
2	HVDC	RAIGARH-PUGALUR	2	0	1102	0.0	18.3	-18.3
3	765 kV	SOLAPUR-RAICHUR	2	2638	476	31.7	0.2	31.5
4	765 kV	WARDHA-NIZAMABAD	2	220	1625	0.0	9.3	-9.3
5	400 kV	KOLHAPUR-KUDGI	2	1964	0	34.7	0.0	34.7
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	119	2.3	0.0	2.3
WR-SR						83.5	27.8	55.7

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)	527	408	467	11.22	
	ER	400kV TALA-BINAGURI 1,2,4 (& 400kV MALBASE - BINAGURI) i.e. BINAGURI RECEIPT (from TALA HEP 6*170MW)	804	725	747	17.92	
	ER	220kV CHUKHA-BIRPARA 1&2 (& 220kV MALBASE - BIRPARA) i.e. BIRPARA RECEIPT (from CHUKHA HEP 4*84MW)	88	26	62	1.49	
	NER	132kV GELEPHU-SALAKATI	36	21	29	0.69	
	NER	132kV MOTANGA-RANGIA	0	0	0	0.00	
NEPAL	NR	132kV MAHENDRANAGAR-TANAKPUR(NHPC)	-52	0	0	0.01	
	ER	NEPAL IMPORT (FROM BIHAR)	0	0	0	0.00	
	ER	400kV DHALKEBAR-MUZAFFARPUR 1&2	466	240	378	9.08	
BANGLADESH	ER	BHERAMARA B/B HVDC (B'DESH)	-946	-803	-912	-21.89	
	ER (Isolated from Indian Grid)	400kV GODDA_TPS-RAHANPUR (B'DESH) D/C	-1443	-1292	-1355	-32.51	
	NER	132kV COMILLA-SURAJMANI NAGAR 1&2	-199	0	-141	-3.38	

