



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: 09th 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 08.09.2023.

महोदय/Dear Sir,

आईईजीसी-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 08-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 08th September 2023, is available at the NLDC website.

धन्यवाद,

Report for previous day

Date of Reporting: 09-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)	73127	54689	45313	24935	3394	201458
Peak Shortage (MW)	250	0	0	113	11	374
Energy Met (MU)	1681	1327	1067	540	66	4681
Hydro Gen (MU)	320	34	56	125	33	567
Wind Gen (MU)	4	207	230	-	-	441
Solar Gen (MU)*	130.30	41.68	94.80	1.47	0.92	269
Energy Shortage (MU)	2.66	0.00	0.00	0.15	0.85	3.66
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	75699	60285	50684	25517	3415	209280
Time Of Maximum Demand Met	12:29	09:47	10:30	20:16	18:43	11:42

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	0.032	0.00	0.09	2.60	2.70	82.88	14.42

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	14503	0	340.0	218.8	0.3	317	0.00
	Haryana	12360	0	254.7	203.8	0.6	303	0.00
	Rajasthan	16591	0	345.8	150.9	-1.1	352	0.00
	Delhi	5963	0	127.0	108.9	-2.9	142	0.00
	UP	22509	0	467.5	216.7	-2.1	238	0.00
	Uttarakhand	2289	0	46.8	24.1	-0.1	244	0.08
	HP	1739	43	36.0	8.6	1.0	201	0.04
	J&K(UT) & Ladakh(UT)	2479	250	52.4	24.6	4.8	421	2.54
	Chandigarh	378	0	7.5	7.5	0.0	35	0.00
Railways NR ISTS	169	0	3.5	3.6	-0.1	16	0.00	
WR	Chhattisgarh	4601	0	105.3	44.2	-2.2	266	0.00
	Gujarat	18965	0	400.8	135.5	-7.5	783	0.00
	MP	10865	0	235.0	149.7	-2.3	475	0.00
	Maharashtra	23694	0	511.2	175.7	-4.7	946	0.00
	Goa	653	0	13.8	13.7	0.0	194	0.00
	DNHDDPDCL	1304	0	29.8	29.8	0.0	118	0.00
	AMNSIL	798	0	18.1	6.5	0.2	253	0.00
	BALCO	521	0	12.5	12.5	0.0	7	0.00
SR	Andhra Pradesh	9686	0	209.0	56.4	-2.9	670	0.00
	Telangana	10123	0	196.4	87.2	1.6	814	0.00
	Karnataka	12425	0	233.3	61.0	-2.7	477	0.00
	Kerala	3826	0	77.5	63.7	0.6	247	0.00
	Tamil Nadu	16335	0	341.1	140.2	-10.0	646	0.00
	Puducherry	438	0	9.9	9.4	-0.2	38	0.00
ER	Bihar	6327	0	123.5	120.2	-1.5	229	0.03
	DVC	3593	0	73.6	-38.5	-0.6	241	0.00
	Jharkhand	1703	0	34.6	29.6	0.9	214	0.11
	Odisha	5368	0	117.4	40.6	-1.2	362	0.00
	West Bengal	8911	0	189.6	73.3	-3.4	186	0.00
	Sikkim	82	0	1.3	1.3	0.0	14	0.00
Railways ER ISTS	16	0	0.2	0.2	0.0	0	0.00	
NER	Arunachal Pradesh	161	0	3.0	2.6	-0.1	59	0.00
	Assam	2340	0	44.1	33.7	3.0	286	0.72
	Manipur	179	0	2.5	2.6	-0.1	24	0.00
	Meghalaya	318	11	5.4	1.6	-0.2	38	0.13
	Mizoram	124	0	2.0	1.4	-0.1	16	0.00
	Nagaland	154	0	2.9	2.6	-0.1	5	0.00
Tripura	303	0	6.0	5.3	0.4	41	0.00	

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

	Bhutan	Nepal	Bangladesh	Godda -> Bangladesh
Actual (MU)	31.7	9.4	-25.2	-27.0
Day Peak (MW)	1545.0	391.0	-1106.0	-1416.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	470.9	-310.7	1.7	-155.2	-6.6	0.0
Actual(MU)	469.4	-309.7	3.3	-169.1	-2.1	-8.3
O/D/U/D(MU)	-1.5	1.0	1.6	-13.9	4.5	-8.3

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL	% Share
Central Sector	3800	10686	3748	1000	355	19589	42
State Sector	6636	11892	4922	2974	155	26578	58
Total	10436	22577	8670	3974	510	46166	100

G. Sourcewise generation (Gross) (MU)

	NR	WR	SR	ER	NER	All India	% Share
Coal	762	1372	600	643	14	3391	67
Lignite	24	13	44	0	0	81	2
Hydro	320	34	56	125	33	567	11
Nuclear	30	54	75	0	0	159	3
Gas, Naptha & Diesel	22	43	6	0	28	100	2
RES (Wind, Solar, Biomass & Others)	141	250	357	3	1	752	15
Total	1299	1767	1139	770	76	5050	100

Share of RES in total generation (%)	10.86	14.17	31.34	0.35	1.21	14.89
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	37.79	19.13	42.88	16.54	44.59	29.27

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.030
Based on State Max Demands	1.064

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

	Max Demand Met(MW)	Time	Shortage(MW)
Solar hr	209280	11:42	166
Non-Solar hr	204835	19:25	346

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: 09-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	2501	0.0	37.5	-37.5
2	HVDC	PUSAULI B/B	-	0	296	0.0	2.6	-2.6
3	765 kV	GAYA-VARANASI	2	257	704	0.0	7.4	-7.4
4	765 kV	SASARAM-FATEHPUR	1	0	490	0.0	7.0	-7.0
5	765 kV	GAYA-BALIA	1	0	726	0.0	13.8	-13.8
6	400 kV	PUSAULI-VARANASI	1	4	148	0.0	0.7	-0.7
7	400 kV	PUSAULI-ALLAHABAD	1	0	163	0.0	1.9	-1.9
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	0	782	0.0	13.1	-13.1
9	400 kV	PATNA-BALIA	2	0	598	0.0	11.4	-11.4
10	400 kV	NAUBATPUR-BALIA	2	0	635	0.0	11.6	-11.6
11	400 kV	BIHARSHARIFF-BALIA	2	0	315	0.0	4.9	-4.9
12	400 kV	MOTIHARI-GORAKHPUR	2	0	482	0.0	8.3	-8.3
13	400 kV	BIHARSHARIFF-VARANASI	2	127	268	0.0	2.9	-2.9
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	123.0	-122.4
Import/Export of ER (With WR)								
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	0	1495	0.0	20.2	-20.2
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	1417	0	20.0	0.0	20.0
3	765 kV	JHARSUGUDA-DURG	2	0	408	0.0	5.2	-5.2
4	400 kV	JHARSUGUDA-RAIGARH	4	104	333	0.0	2.8	-2.8
5	400 kV	RANCHI-SIPAT	2	291	67	2.8	0.0	2.8
6	220 kV	BUDHIPADAR-RAIGARH	1	6	123	0.0	1.1	-1.1
7	220 kV	BUDHIPADAR-KORBA	2	78	1	0.9	0.0	0.9
ER-WR						23.7	29.3	-5.5
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	1241	0.0	26.1	-26.1
3	765 kV	ANGUL-SRIKAKULAM	2	0	2278	0.0	29.9	-29.9
4	400 kV	TALCHER-I/C	2	661	64	6.2	0.0	6.2
5	220 kV	BALIMELA-UPPER-SILERRU	1	0	0	0.0	0.0	0.0
ER-SR						0.0	63.4	-63.4
Import/Export of ER (With NER)								
1	400 kV	BINAGURI-BONGAIGAON	2	0	523	0.0	7.7	-7.7
2	400 kV	ALIPURDUAR-BONGAIGAON	2	113	396	0.0	2.8	-2.8
3	220 kV	ALIPURDUAR-SALAKATI	2	0	110	0.0	1.4	-1.4
ER-NER						0.0	11.9	-11.9
Import/Export of NER (With NR)								
1	HVDC	BISWANATH CHARIALI-AGRA	2	0	603	0.0	14.5	-14.5
NER-NR						0.0	14.5	-14.5
Import/Export of WR (With NR)								
1	HVDC	CHAMPA-KIRUKSHETRA	2	0	4522	0.0	91.2	-91.2
2	HVDC	VINDHYACHAL B/B	-	136	197	1.6	1.6	0.0
3	HVDC	MUNDRA-MOHINDERGARH	2	0	1448	0.0	25.6	-25.6
4	765 kV	GWALIOR-AGRA	2	0	2421	0.0	42.3	-42.3
5	765 kV	GWALIOR-PHAGI	2	0	2053	0.0	32.7	-32.7
6	765 kV	JABALPUR-ORAI	2	0	1333	0.0	46.7	-46.7
7	765 kV	GWALIOR-ORAI	1	727	0	12.5	0.0	12.5
8	765 kV	SATNA-ORAI	1	0	1119	0.0	23.8	-23.8
9	765 kV	BANASKANTHA-CHITORGARH	2	0	1845	0.0	23.0	-23.0
10	765 kV	VINDHYACHAL-VARANASI	2	0	3449	0.0	63.1	-63.1
11	400 kV	ZERDA-KANKROLI	1	21	316	0.0	3.9	-3.9
12	400 kV	ZERDA-BHINMAL	1	0	650	0.0	9.5	-9.5
13	400 kV	VINDHYACHAL-RIHAND	1	948	0	22.0	0.0	22.0
14	400 kV	RAPP-SHUJALPUR	2	11	740	0.0	9.4	-9.4
15	220 kV	BHANPURA-RANPUR	1	0	94	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	76	26	0.5	0.0	0.5
18	220 kV	MALANPUR-AURAIYA	1	51	35	0.2	0.2	0.0
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						36.8	376.8	-340.0
Import/Export of WR (With SR)								
1	HVDC	BHADRAWATI B/B	-	993	0	11.7	0.0	11.7
2	HVDC	RAIGARH-PUGALUR	2	0	2004	0.0	35.5	-35.5
3	765 kV	SOLAPUR-RAICHUR	2	2684	907	28.6	1.1	27.4
4	765 kV	WARDHA-NIZAMABAD	2	395	2131	0.0	13.8	-13.8
5	400 kV	KOLHAPUR-KUDGI	2	1950	0	33.2	0.0	33.2
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	119	2.4	0.0	2.4
WR-SR						75.8	50.4	25.4

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)	679	461	548	13.15	
	ER	400kV TALA-BINAGURI 1,2,4 (& 400kV MALBASE - BINAGURI) i.e. BINAGURI RECEIPT (from TALA HEP 6*170MW)	789	694	729	17.50	
	ER	220kV CHUKHA-BIRPARA 1&2 (& 220kV MALBASE - BIRPARA) i.e. BIRPARA RECEIPT (from CHUKHA HEP 4*84MW)	114	29	73	1.74	
	NER	132kV GELEPHU-SALAKATI	-34	-22	-29	-0.69	
	NER	132kV MOTANGA-RANGIA	0	0	0	0.00	
NEPAL	NR	132kV MAHENDRANAGAR-TANAKPUR(NHPC)	-32	0	25	0.59	
	ER	NEPAL IMPORT (FROM BIHAR)	0	0	0	0.00	
	ER	400kV DHALKEBAR-MUZAFFARPUR 1&2	423	288	366	8.78	
BANGLADESH	ER	BHERAMARA B/B HVDC (B'DESH)	-944	-796	-915	-21.96	
	ER (Isolated from Indian Grid)	400kV GODDA_TPS-RAHANPUR (B'DESH) D/C	-1416	-848	-1125	-27.01	
	NER	132kV COMILLA-SURAJMANI NAGAR 1&2	162	0	-137	-3.28	

