



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: 06th 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 05.09.2023.

महोदय/Dear Sir,

आईईजीसी-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 05-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 05th September 2023, is available at the NLDC website.

धन्यवाद,

Report for previous day

Date of Reporting: 06-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)	73951	63325	43165	25544	3332	209317
Peak Shortage (MW)	1019	0	0	410	45	1474
Energy Met (MU)	1784	1567	1017	561	71	5000
Hydro Gen (MU)	348	76	61	122	34	641
Wind Gen (MU)	10	88	198	-	-	297
Solar Gen (MU)*	136.89	58.39	54.99	1.92	1.29	253
Energy Shortage (MU)	6.41	3.75	0.00	2.36	0.87	13.39
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	80005	71098	47319	26398	3258	222695
Time Of Maximum Demand Met	14:48	11:25	11:24	19:27	20:46	11:52

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	0.026	0.00	0.06	1.06	1.12	78.88	20.00

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	14747	0	310.6	178.0	0.1	244	0.00
	Haryana	12518	0	263.1	199.7	0.6	202	4.14
	Rajasthan	17566	0	365.2	162.0	-0.9	403	0.00
	Delhi	6953	0	141.3	114.2	-1.0	161	0.00
	UP	26193	0	559.8	252.0	0.0	701	0.00
	Uttarakhand	2330	0	49.4	25.7	1.1	198	0.38
	HP	1639	0	34.9	4.6	0.7	143	0.20
	J&K(UT) & Ladakh(UT)	2437	210	48.8	24.7	1.3	333	1.69
	Chandigarh	374	0	7.3	7.3	0.0	42	0.00
Railways NR ISTS	159	0	3.4	3.3	0.1	48	0.00	
WR	Chhattisgarh	4786	0	108.8	50.2	-2.2	269	0.00
	Gujarat	23780	0	506.6	220.6	-0.7	590	0.00
	MP	14102	0	298.0	170.5	-4.7	350	1.72
	Maharashtra	25969	0	579.3	213.6	-1.5	1451	2.03
	Goa	673	0	14.0	13.9	0.0	40	0.00
	DNHDDPDCL	1280	0	29.8	30.0	-0.2	26	0.00
	AMNSIL	866	0	18.5	4.7	0.2	252	0.00
	BALCO	520	0	12.4	12.5	-0.1	4	0.00
SR	Andhra Pradesh	9160	0	199.7	58.5	-2.1	429	0.00
	Telangana	8135	0	170.9	37.5	-2.3	332	0.00
	Karnataka	11774	0	223.3	72.1	-0.3	749	0.00
	Kerala	3859	0	80.2	67.8	1.8	249	0.00
	Tamil Nadu	15747	0	333.3	131.9	-3.5	361	0.00
	Puducherry	443	0	9.7	9.5	-0.6	18	0.00
ER	Bihar	6758	0	143.0	139.1	-1.2	294	0.69
	DVC	3303	0	73.6	-48.1	-1.9	275	0.00
	Jharkhand	1647	0	36.1	29.4	1.9	266	1.67
	Odisha	4881	0	105.7	30.9	-1.1	270	0.00
	West Bengal	9433	0	200.9	84.4	-2.0	353	0.00
	Sikkim	93	0	1.4	1.4	-0.1	12	0.00
	Railways ER ISTS	22	0	0.2	0.1	0.0	13	0.00
NER	Arunachal Pradesh	158	0	3.2	2.6	0.1	30	0.00
	Assam	2351	0	48.0	39.7	1.3	240	0.27
	Manipur	178	0	2.8	2.8	0.0	15	0.00
	Meghalaya	277	45	5.1	0.9	-0.2	49	0.60
	Mizoram	126	0	2.1	1.3	-0.1	11	0.00
	Nagaland	174	0	3.3	2.9	0.0	11	0.00
	Tripura	313	0	6.2	7.3	0.3	47	0.00

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

	Bhutan	Nepal	Bangladesh	Godda -> Bangladesh
Actual (MU)	36.3	9.5	-24.7	-33.5
Day Peak (MW)	1669.6	457.0	-1070.0	-1482.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	435.5	-219.8	-53.1	-157.0	-5.6	0.0
Actual(MU)	425.1	-222.3	-46.1	-159.0	-3.0	-5.3
O/D/U/D(MU)	-10.4	-2.5	7.0	-2.0	2.7	-5.3

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL	% Share
Central Sector	2214	9275	4748	1370	340	17946	47
State Sector	4786	8240	4152	2494	266	19937	53
Total	7000	17515	8900	3864	606	37883	100

G. Sourcewise generation (Gross) (MU)

	NR	WR	SR	ER	NER	All India	% Share
Coal	845	1529	671	664	17	3726	69
Lignite	30	15	58	0	0	103	2
Hydro	348	76	61	122	34	641	12
Nuclear	29	54	49	0	0	132	2
Gas, Naptha & Diesel	52	96	6	0	29	182	3
RES (Wind, Solar, Biomass & Others)	154	149	299	3	1	606	11
Total	1457	1919	1143	790	81	5390	100

Share of RES in total generation (%)	10.59	7.76	26.13	0.40	1.59	11.25
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	36.45	14.53	35.72	15.87	43.72	25.58

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.024
Based on State Max Demands	1.058

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

	Max Demand Met(MW)	Time	Shortage(MW)
Solar hr	222695	11:52	32
Non-Solar hr	210693	19:29	2555

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: 06-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	803	0.0	19.2	-19.2
2	HVDC	PUSAULI B/B	-	0	97	0.0	2.5	-2.5
3	765 kV	GAYA-VARANASI	2	0	670	0.0	11.0	-11.0
4	765 kV	SASARAM-FATEHPUR	1	0	525	0.0	9.3	-9.3
5	765 kV	GAYA-BALIA	1	0	822	0.0	15.3	-15.3
6	400 kV	PUSAULI-VARANASI	1	9	65	0.0	0.4	-0.4
7	400 kV	PUSAULI-ALLAHABAD	1	0	114	0.0	1.9	-1.9
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	0	828	0.0	16.0	-16.0
9	400 kV	PATNA-BALIA	2	0	581	0.0	12.3	-12.3
10	400 kV	NAUBATPUR-BALIA	2	0	611	0.0	12.7	-12.7
11	400 kV	BIHARSHARIF-BALIA	2	0	354	0.0	7.2	-7.2
12	400 kV	MOTIHARI-GORAKHPUR	2	0	447	0.0	8.8	-8.8
13	400 kV	BIHARSHARIF-VARANASI	2	0	332	0.0	5.7	-5.7
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	0.4	0.0	0.4
17	132 kV	KARMANASA-SAHUPURI	1	0	0	0.0	0.0	0.0
18	132 kV	KARMANASA-CHANDALI	1	0	0	0.0	0.0	0.0
ER-NR						0.4	122.3	-121.8
Import/Export of ER (With WR)								
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	192	1458	0.0	15.9	-15.9
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	1397	0	17.8	0.0	17.8
3	765 kV	JHARSUGUDA-DURG	2	0	337	0.0	4.9	-4.9
4	400 kV	JHARSUGUDA-RAIGARH	4	0	406	0.0	6.3	-6.3
5	400 kV	RANCHI-SIPAT	2	255	73	2.1	0.0	2.1
6	220 kV	BUDHIPADAR-RAIGARH	1	0	137	0.0	2.0	-2.0
7	220 kV	BUDHIPADAR-KORBA	2	35	16	0.2	0.0	0.2
ER-WR						20.1	29.2	-9.1
Import/Export of ER (With SR)								
1	HVDC	JEYPORE-GAZUWAKA B/B	2	0	338	0.0	3.6	-3.6
2	HVDC	TALCHER-KOLAR BIPOLE	2	0	1341	0.0	27.3	-27.3
3	765 kV	ANGUL-SRIKAKULAM	2	0	1766	0.0	24.2	-24.2
4	400 kV	TALCHER-I/C	2	439	0	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	55.0	-55.0
Import/Export of ER (With NER)								
1	400 kV	BINAGURI-BONGAIGAON	2	0	293	0.0	4.2	-4.2
2	400 kV	ALIPURDUAR-BONGAIGAON	2	0	306	0.0	3.7	-3.7
3	220 kV	ALIPURDUAR-SALAKATI	2	0	77	0.0	1.1	-1.1
ER-NER						0.0	9.0	-9.0
Import/Export of NER (With NR)								
1	HVDC	BISWANATH CHARIALI-AGRA	2	0	553	0.0	12.0	-12.0
NER-NR						0.0	12.0	-12.0
Import/Export of WR (With NR)								
1	HVDC	CHAMPA-KIRUKSHETRA	2	0	5046	0.0	91.0	-91.0
2	HVDC	VINDHYACHAL B/B	-	436	54	3.9	0.7	3.2
3	HVDC	MUNDRA-MOHINDERGARH	2	0	1450	0.0	36.3	-36.3
4	765 kV	GWALIOR-AGRA	2	0	2474	0.0	39.0	-39.0
5	765 kV	GWALIOR-PHAGI	2	0	2011	0.0	37.5	-37.5
6	765 kV	JABALPUR-ORAI	2	0	1346	0.0	48.7	-48.7
7	765 kV	GWALIOR-ORAI	1	839	0	16.3	0.0	16.3
8	765 kV	SATNA-ORAI	1	0	1118	0.0	23.1	-23.1
9	765 kV	BANASKANTHA-CHITORGARH	2	1604	608	8.5	0.0	8.5
10	765 kV	VINDHYACHAL-VARANASI	2	0	3388	0.0	62.9	-62.9
11	400 kV	ZERDA-KANKROLI	1	244	114	1.8	0.6	1.3
12	400 kV	ZERDA -BHINMAL	1	420	334	0.1	0.0	0.1
13	400 kV	VINDHYACHAL -RIHAND	1	937	0	22.0	0.0	22.0
14	400 kV	RAPP-SHUALPUR	2	69	690	0.0	9.6	-9.6
15	220 kV	BHANPURA-RANPUR	1	0	0	0.0	0.0	0.0
16	220 kV	BHANPURA-MORAK	1	0	30	0.0	2.6	-2.6
17	220 kV	MEHGAON-AURAIYA	1	107	0	1.6	0.0	1.6
18	220 kV	MALANPUR-AURAIYA	1	75	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						55.2	351.8	-296.6
Import/Export of WR (With SR)								
1	HVDC	BHADRAWATI B/B	-	994	0	8.0	0.0	8.0
2	HVDC	RAIGARH-PUGALUR	2	0	1198	0.0	18.9	-18.9
3	765 kV	SOLAPUR-RAICHUR	2	2962	0	37.3	0.0	37.3
4	765 kV	WARDHA-NIZAMABAD	2	1216	740	2.0	0.0	2.0
5	400 kV	KOLHAPUR-KUDGI	2	1879	0	35.0	0.0	35.0
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	119	2.3	0.0	2.3
WR-SR						84.7	18.9	65.7

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)	608	484	551	13.23	
	ER	400kV TALA-BINAGURI 1,2,4 (& 400kV MALBASE - BINAGURI) i.e. BINAGURI RECEIPT (from TALA HEP 6*170MW)	995	782	880	21.13	
	ER	220kV CHUKHA-BIRPARA 1&2 (& 220kV MALBASE - BIRPARA) i.e. BIRPARA RECEIPT (from CHUKHA HEP 4*84MW)	125	21	83	1.99	
	NER	132kV GELEPHU-SALAKATI	-34	5	-3	-0.08	
	NER	132kV MOTANGA-RANGIA	0	0	0	0.00	
NEPAL	NR	132kV MAHENDRANAGAR-TANAKPUR(NHPC)	-19	0	5	0.12	
	ER	NEPAL IMPORT (FROM BIHAR)	0	0	0	0.00	
	ER	400kV DHALKEBAR-MUZAFFARPUR 1&2	476	299	392	9.40	
BANGLADESH	ER	BHERAMARA B/B HVDC (B'DESH)	-942	-822	-912	-21.89	
	ER (Isolated from Indian Grid)	400kV GODDA_TPS-RAHANPUR (B'DESH) D/C	-1482	-1291	-1398	-33.55	
	NER	132kV COMILLA-SURAJMANI NAGAR 1&2	-128	0	-116	-2.78	

