



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: 04th 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 03.09.2023.

महोदय/Dear Sir,

आईईजीसी-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 03-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 03rd September 2023, is available at the NLDC website.

धन्यवाद,

Report for previous day

Date of Reporting: 04-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)	74994	62732	41525	25324	3276	207851
Peak Shortage (MW)	75	457	0	0	212	744
Energy Met (MU)	1777	1576	1029	578	66	5026
Hydro Gen (MU)	378	94	54	108	37	670
Wind Gen (MU)	51	83	136	-	-	269
Solar Gen (MU)*	144.33	54.65	93.11	2.16	1.31	296
Energy Shortage (MU)	10.70	7.18	0.00	5.21	2.68	25.83
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	79130	71716	46962	26217	3480	223121
Time Of Maximum Demand Met	14:59	11:37	12:46	21:23	18:41	12:46

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	0.00	1.65	1.65	77.14	21.20

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	14783	0	304.6	180.0	0.6	175	0.00
	Haryana	11782	0	251.4	184.0	-1.2	181	7.23
	Rajasthan	17179	0	369.6	128.7	-1.4	534	1.63
	Delhi	6533	0	128.6	103.3	-2.5	92	0.00
	UP	26421	0	580.0	252.3	-0.3	1210	0.00
	Uttarakhand	2126	0	46.8	22.0	0.7	213	1.26
	HP	1541	0	33.3	1.3	0.1	80	0.07
	J&K(UT) & Ladakh(UT)	2466	18	52.9	26.6	2.4	245	0.57
	Chandigarh	329	0	6.6	6.8	-0.2	25	0.00
Railways NR ISTS	167	0	3.5	2.9	0.5	51	0.00	
WR	Chhattisgarh	5535	0	121.4	68.4	-0.6	409	0.00
	Gujarat	23666	0	499.6	203.6	-0.1	758	0.00
	MP	14531	0	315.3	170.1	-0.5	793	7.01
	Maharashtra	26426	0	566.9	216.4	-3.8	813	0.00
	Goa	605	0	12.8	12.7	0.0	107	0.17
	DNHDDPDCL	1228	0	28.4	28.6	-0.2	40	0.00
	AMNSIL	879	0	19.0	6.6	0.0	278	0.00
	BALCO	519	0	12.4	12.4	0.0	5	0.00
SR	Andhra Pradesh	9558	0	205.7	82.3	-4.8	710	0.00
	Telangana	9604	0	202.3	81.9	-1.6	642	0.00
	Karnataka	12015	0	230.2	84.0	-2.4	600	0.00
	Kerala	3637	0	76.3	64.4	1.2	207	0.00
	Tamil Nadu	13691	0	304.9	109.3	-8.2	381	0.00
	Puducherry	411	0	9.0	8.8	-0.5	17	0.00
ER	Bihar	6792	232	150.1	148.9	0.5	384	3.90
	DVC	3287	0	74.5	-47.4	-1.4	494	0.00
	Jharkhand	1756	0	36.8	32.9	0.3	181	1.32
	Odisha	4718	0	105.5	31.6	-2.7	331	0.00
	West Bengal	9881	0	210.5	90.7	-2.6	312	0.00
	Sikkim	62	0	1.0	0.3	0.7	57	0.00
Railways ER ISTS	18	0	0.2	0.2	0.0	14	0.00	
NER	Arunachal Pradesh	171	0	3.0	2.8	-0.3	25	0.00
	Assam	2298	0	45.8	36.3	1.9	286	2.10
	Manipur	188	0	2.5	2.6	-0.1	17	0.00
	Meghalaya	282	0	5.1	0.8	-0.2	45	0.58
	Mizoram	101	0	1.7	1.3	-0.3	13	0.00
	Nagaland	168	0	3.0	2.8	-0.2	9	0.00
Tripura	325	0	4.7	5.3	0.2	99	0.00	

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

	Bhutan	Nepal	Bangladesh	Godda -> Bangladesh
Actual (MU)	41.2	8.9	-25.5	-32.0
Day Peak (MW)	1900.1	463.0	-1095.0	-1486.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	338.4	-242.2	21.2	-111.0	-6.5	0.0
Actual(MU)	325.0	-231.9	17.4	-111.0	-5.2	-5.6
O/D/U/D(MU)	-13.4	10.3	-3.8	0.0	1.3	-5.6

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL	% Share
Central Sector	2924	7875	5408	2470	230	18907	47
State Sector	4755	8633	4568	3104	256	21315	53
Total	7679	16508	9976	5574	486	40222	100

G. Sourcewise generation (Gross) (MU)

	NR	WR	SR	ER	NER	All India	% Share
Coal	863	1569	656	641	13	3743	69
Lignite	30	11	58	0	0	99	2
Hydro	378	94	54	108	37	670	12
Nuclear	29	54	46	0	0	129	2
Gas, Naptha & Diesel	48	72	6	0	28	153	3
RES (Wind, Solar, Biomass & Others)	202	140	275	3	1	622	11
Total	1552	1939	1095	752	79	5417	100

Share of RES in total generation (%)	13.05	7.21	25.13	0.44	0.05	8.01
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	39.31	14.82	34.22	14.77	48.49	26.24

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.019
Based on State Max Demands	1.056

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

	Max Demand Met(MW)	Time	Shortage(MW)
Solar hr	223121	12:46	222
Non-Solar hr	211470	0:00	6290

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: 04-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	801	0.0	20.3	-20.3
2	HVDC	PUSAULI B/B	-	0	95	0.0	2.2	-2.2
3	765 kV	GAYA-VARANASI	2	417	290	0.0	1.4	-1.4
4	765 kV	SASARAM-FATEHPUR	1	119	270	0.0	3.9	-3.9
5	765 kV	GAYA-BALIA	1	0	765	0.0	13.3	-13.3
6	400 kV	PUSAULI-VARANASI	1	0	117	0.0	1.6	-1.6
7	400 kV	PUSAULI-ALLAHABAD	1	14	94	0.0	0.6	-0.6
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	0	729	0.0	10.5	-10.5
9	400 kV	PATNA-BALIA	2	0	510	0.0	8.4	-8.4
10	400 kV	NAUBATPUR-BALIA	2	0	544	0.0	8.3	-8.3
11	400 kV	BIHARSHARIF-BALIA	2	80	244	0.0	3.3	-3.3
12	400 kV	MOTIHARI-GORAKHPUR	2	0	399	0.0	5.9	-5.9
13	400 kV	BIHARSHARIF-VARANASI	2	194	169	0.0	1.0	-1.0
14	220 kV	SAHUPURI-KARAMNANA	1	0	166	0.0	1.9	-1.9
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-CHANDALI	1	0	0	0.0	0.0	0.0
ER-NR						0.5	82.9	-82.4
Import/Export of ER (With WR)								
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	709	1194	1.5	0.0	1.5
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	1499	0	23.1	0.0	23.1
3	765 kV	JHARSUGUDA-DURG	2	33	240	0.0	2.2	-2.2
4	400 kV	JHARSUGUDA-RAIGARH	4	0	470	0.0	8.1	-8.1
5	400 kV	RANCHI-SIPAT	2	284	2	3.1	0.0	3.1
6	220 kV	BUDHIPADAR-RAIGARH	1	0	187	0.0	2.8	-2.8
7	220 kV	BUDHIPADAR-KORBA	2	16	59	0.5	0.0	0.5
ER-WR						28.2	13.1	15.2
Import/Export of ER (With SR)								
1	HVDC	JEYPORE-GAZUWAKA B/B	2	0	574	0.0	8.8	-8.8
2	HVDC	TALCHER-KOLAR BIPOLE	2	0	1638	0.0	34.3	-34.3
3	765 kV	ANGUL-SRIKAKULAM	2	0	1960	0.0	28.8	-28.8
4	400 kV	TALCHER-I/C	2	184	480	0.0	1.1	-1.1
5	220 kV	BALIMELA-UPPER-SILERRU	1	0	0	0.0	0.0	0.0
ER-SR						0.0	71.8	-71.8
Import/Export of ER (With NER)								
1	400 kV	BINAGURI-BONGAIGAON	2	0	329	0.0	3.1	-3.1
2	400 kV	ALIPURDUAR-BONGAIGAON	2	32	372	0.0	2.9	-2.9
3	220 kV	ALIPURDUAR-SALAKATI	2	5	92	0.0	1.0	-1.0
ER-NER						0.0	7.0	-7.0
Import/Export of NER (With NR)								
1	HVDC	BISWANATH CHARIAL-AGRA	2	0	553	0.0	13.2	-13.2
NER-NR						0.0	13.2	-13.2
Import/Export of WR (With NR)								
1	HVDC	CHAMPA-KIRUKSHETRA	2	0	5052	0.0	91.1	-91.1
2	HVDC	VINDHYACHAL B/B	-	182	0	4.8	0.0	4.8
3	HVDC	MUNDRA-MOHINDERGARH	2	0	1450	0.0	15.2	-15.2
4	765 kV	GWALIOR-AGRA	2	0	2023	0.0	29.4	-29.4
5	765 kV	GWALIOR-PHAGI	2	46	1691	0.0	24.3	-24.3
6	765 kV	JABALPUR-ORAI	2	0	1246	0.0	38.7	-38.7
7	765 kV	GWALIOR-ORAI	1	787	0	14.3	0.0	14.3
8	765 kV	SATNA-ORAI	1	0	996	0.0	19.3	-19.3
9	765 kV	BANASKANTHA-CHITORGARH	2	1493	744	6.4	0.0	6.4
10	765 kV	VINDHYACHAL-VARANASI	2	0	3467	0.0	66.1	-66.1
11	400 kV	ZERDA-KANKROLI	1	261	138	2.2	0.5	1.6
12	400 kV	ZERDA -BHINMAL	1	609	249	4.0	0.0	4.0
13	400 kV	VINDHYACHAL -RIHAND	1	953	0	21.9	0.0	21.9
14	400 kV	RAPP-SHUALPUR	2	241	654	0.0	5.4	-5.4
15	220 kV	BHANPURA-RANPUR	1	0	0	0.0	0.0	0.0
16	220 kV	BHANPURA-MORAK	1	0	30	0.0	2.7	-2.7
17	220 kV	MEHGAON-AURAIYA	1	118	0	1.9	0.0	1.9
18	220 kV	MALANPUR-AURAIYA	1	85	0	1.2	0.0	1.2
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						56.7	292.4	-235.7
Import/Export of WR (With SR)								
1	HVDC	BHADRAWATI B/B	-	0	305	0.0	7.2	-7.2
2	HVDC	RAIGARH-PUGALUR	2	0	1302	0.0	15.1	-15.1
3	765 kV	SOLAPUR-RAICHUR	2	2493	715	24.7	1.5	23.2
4	765 kV	WARDHA-NIZAMABAD	2	903	1749	0.0	13.2	-13.2
5	400 kV	KOLHAPUR-KUDGI	2	1820	0	31.2	0.0	31.2
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	1	106	1.2	0.0	1.2
WR-SR						57.1	37.1	20.1

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)	725	444	651	15.63	
	ER	400kV TALA-BINAGURI 1,2,4 (& 400kV MALBASE - BINAGURI) i.e. BINAGURI RECEIPT (from TALA HEP 6*170MW)	1016	935	983	23.60	
	ER	220kV CHUKHA-BIRPARA 1&2 (& 220kV MALBASE - BIRPARA) i.e. BIRPARA RECEIPT (from CHUKHA HEP 4*84MW)	121	-41	65	1.55	
	NER	132kV GELEPHU-SALAKATI	35	0	15	0.36	
	NER	132kV MOTANGA-RANGIA	0	0	0	0.00	
NEPAL	NR	132kV MAHENDRANAGAR-TANAKPUR(NHPC)	-44	0	-2	-0.04	
	ER	NEPAL IMPORT (FROM BIHAR)	0	0	0	0.00	
	ER	400kV DHALKEBAR-MUZAFFARPUR 1&2	507	86	374	8.98	
BANGLADESH	ER	BHERAMARA B/B HVDC (B'DESH)	-946	-832	-917	-22.00	
	ER (Isolated from Indian Grid)	400kV GODDA_TPS-RAHANPUR (B'DESH) D/C	-1486	-1188	-1335	-32.05	
	NER	132kV COMILLA-SURAJMANI NAGAR 1&2	-149	0	-146	-3.50	

