

National Load Despatch Centre राष्ट्रीय भार प्रेषण केंद्र GRID CONTROLLER OF INDIA LIMITED ग्रिड कंट्रोलर ऑफ इंडिया लिमिटेड

(Government of India Enterprise/ भारत सरकार का उद्यम) B-9, QUTUB INSTITUTIONAL AREA, KATWARIA SARAI, NEW DELHI -110016 बी-9, क़ुतुब इन्स्टीट्यूशनल एरिया, कटवारिया सराये, न्यू दिल्ली-110016

Ref: POSOCO/NLDC/SO/Daily PSP Report

दिनांक: 30th 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
- 3. 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
- 4. कार्यकारी निदेशक, ऊ. पू. क्षे. भा. प्रे. के., डोंगतिएह, लोअर नोंग्रह , लापलंग, शिलोंग 793006 Executive Director, NERLDC, Dongteih, Lower Nongrah, Lapalang, Shillong - 793006, Meghalaya
- 5. 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 29.09.2023.

महोदय/Dear Sir,

आई॰ई॰जी॰सी॰-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 29-सितम्बर-2023 की अखिल भारतीय प्रणाली की दैनिक ग्रिड निष्पादन रिपोर्ट रा॰भा॰प्रे॰के॰ की वेबसाइट पर उप्लब्ध 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 29th September 2023, is available at the NLDC website.

धन्यवाद.

ग्रिड कंट्रलर ऑफ इंडिया लिमिटेड राष्ट्रीय भार प्रेषण केंद्र, नई दिल्ली



Report for previous day

A. Power Supply Position at All India and Regional level

Date of Reporting: 30-Sep-2023

	NR	WR	SR	ER	NER	TOTAL
Demand Met during Evening Peak hrs(MW) (at 20:00 hrs; from RLDCs)	68013	56522	44479	25569	3271	197854
Peak Shortage (MW)	217	0	0	236	226	679
Energy Met (MU)	1513	1299	1097	593	70	4573
Hydro Gen (MU)	234	82	62	107	26	510
Wind Gen (MU)	9	46	149	-	-	205
Solar Gen (MU)*	131.61	55.45	106.82	2.49	1.16	298
Energy Shortage (MU)	5.82	2.30	0.00	4.23	1.40	13.75
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	68478	60732	53633	26996	3486	206542
Time Of Maximum Demand Met	20:23	18:57	11:56	00:13	18:29	12:41

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	0.036	0.00	0.27	7.06	7 33	77 13	15 54

C. Power Supply Position in States

	osition in States	Max.Demand	Shortage during	Energy Met	Drawal	OD(+)/UD(-)	Max OD	Energy
Region	States	Met during the day (MW)	maximum Demand (MW)	(MU)	Schedule (MU)	(MU)	(MW)	Shortage (MU)
	Punjab	12059	0	256.4	131.5	0.1	259	0.00
	Haryana	9936	0	209.6	141.4	-1.0	149	0.00
	Rajasthan	13157	0	289.7	72.3	-4.0	111	0.00
	Delhi	5413	0	114.7	104.1	-2.4	234	0.00
NR	UP	24822	0	505.1	207.0	0.7	337	0.00
	Uttarakhand	2288	0	47.0	27.3	0.8	170	0.00
	HP	1758	0	34.7	14.8	0.2	83	0.11
	J&K(UT) & Ladakh(UT)	2263	100	46.4	26.6	6.1	537	5.71
	Chandigarh	285	0	5.7	5.8	-0.1	18	0.00
	Railways_NR ISTS	173	0	3.4	3.5	-0.1	20	0.00
	Chhattisgarh	4729	0	106.2	49.9	-1.6	123	0.00
	Gujarat	19017	0	382.2	156.2	-1.4	645	0.00
	MP	12053	0	260.2	137.6	-3.7	281	0.00
WR	Maharashtra	21900	0	478.8	179.3	-5.5	671	0.00
	Goa	661	0	13.5	12.8	0.0	42	0.00
	DNHDDPDCL	1251	0	27.4	27.9	-0.5	42	2.30
	AMNSIL	880	0	18.6	9.8	-0.7	285	0.00
	BALCO	519	0	12.4	12.5	-0.1	7	0.00
	Andhra Pradesh	9842	0	210.5	86.1	-2.1	576	0.00
	Telangana	13314	0	235.2	122.4	-0.7	809	0.00
\mathbf{SR}	Karnataka	11955	0	221.0	62.4	-5.3	728	0.00
	Kerala	3722	0	75.9	58.7	1.2	249	0.00
	Tamil Nadu	16097	0	344.6	148.5	-1.5	661	0.00
	Puducherry	448	0	10.2	9.8	-0.3	33	0.00
	Bihar	6956	0	147.3	141.5	0.2	482	3.20
	DVC	3276	0	74.7	-44.6	-0.2	295	0.00
	Jharkhand	1667	197	34.4	27.4	-1.4	194	1.03
$\mathbf{E}\mathbf{R}$	Odisha	5897	0	126.3	58.9	-2.1	319	0.00
	West Bengal	10080	0	208.6	86.5	-3.8	245	0.00
	Sikkim	90	0	1.4	1.3	0.1	27	0.00
	Railways_ER ISTS	26	0	0.2	0.2	0.0	14	0.00
	Arunachal Pradesh	166	0	3.0	2.6	0.1	64	0.00
	Assam	2347	0	48.5	40.4	2.1	296	1.30
	Manipur	190	0	2.5	2.7	-0.2	33	0.00
NER	Meghalaya	303	0	5.6	1.1	-0.1	112	0.10
	Mizoram	112	0	1.8	1.3	-0.3	10	0.00
	Nagaland	173	0	2.9	2.7	-0.2	18	0.00
	Tripura	311	0	6.1	5.8	0.1	48	0.00

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

	Bhutan	Nepal	Bangladesh	Godda -> Bangladesh
Actual (MU)	24.5	13.0	-24.9	-31.5
Day Peak (MW)	1312.2	462.0	-1085.0	-1446.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	294.4	-272,2	79.8	-108.3	6.3	0.0
Actual(MU)	300.7	-280.5	78.6	-110.4	8.6	-3.1
O/D/U/D(MU)	6.2	-8.4	-1.2	-2.1	2.3	-3.1

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL	% Share
Central Sector	4009	12174	5928	1530	505	24145	50
State Sector	4321	10150	6152	3260	219	24101	50
Total	8330	22323	12080	4790	724	48247	100

G. Sourcewise generation (Gross) (MU)

G. Sourcewise generation (Gross) (MO)							
	NR	WR	SR	ER	NER	All India	% Share
Coal	850	1413	637	661	16	3575	72
Lignite	34	14	41	0	0	89	2
Hydro	234	82	62	107	26	510	10
Nuclear	30	54	66	0	0	150	3
Gas, Naptha & Diesel	15	32	6	0	26	79	2
RES (Wind, Solar, Biomass & Others)	148	105	284	4	1	542	11
Total	1309	1700	1096	772	69	4946	100
		1	1	T	1		7
Share of RES in total generation (%)	11.27	6.18	25.92	0.55	1.68	10.96	
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	31.41	14.16	37.59	14.37	39.32	24.30	

H.	All	India	Demand	Diversity	Factor
_	_	_		-	

Based on Regional Max Demands	1.032
Based on State Max Demands	1.065

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

	Max Demand Met(MW)	Time	Shortage(MW)
Solar hr	206542	12:41	562
Non-Solar hr	203418	19:15	1231

 $Diversity\ factor = Sum\ of\ regional\ or\ state\ maximum\ demands\ /\ All\ India\ maximum\ demand$

^{**}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

 $[*]Source: RLDCs \ for \ solar \ connected \ to \ ISTS; SLDCs \ for \ embedded \ solar. \ Limited \ visibility \ of \ embedded \ solar \ data.$

INTER-REGIONAL EXCHANGES

Import=(+ve) /Export =(-ve) for NET (MU)
Date of Reporting: 30-Sep-2023

100 No. Page 100 Page 100 Page 100 Page P				•				Date of Reporting:	30-Sep-2023
The Control of Contr	Sl No	Voltage Level	Line Details	No. of Circuit	Max Import (MW)	Max Export (MW)	Import (MU)	Export (MU)	NET (MU)
1	Impor	t/Export of ER (V	With NR)			l.			
1				_					
1									
1	4	765 kV	SASARAM-FATEHPUR		146	221	0.0		-2.2
The content of the				-					
1	7	400 kV	PUSAULI -ALLAHABAD			101	0.0	1.5	-1.5
19 19 19 19 19 19 19 19									
10	10	400 kV	NAUBATPUR-BALIA	2	39	364	0.0	4.8	-4.8
10									
STATEST STAT									
10 10 10 10 10 10 10 10				1					
15 1.03 1.05 1.				1					
Import Expert of ER (Wish Wish Fig.			KARMANASA-SAHUPURI	-					
	18	132 kV	KARMANASA-CHANDAULI	1	. 0				
1	Impor	t/Export of ER (V	With WR)			DR-IVE	0.5	7510	-77,1
S	1	765 kV	JHARSUGUDA-DHARAMJAIGARH						
MARTINE MARKET MARKANE									
Part	4	400 kV	JHARSUGUDA-RAIGARH	4	203	200	0.0	0.9	-0.9
Table									
						ER-WR	32.0	6.2	25.8
Second Content	_				1 4	22/	0.0	7.4	7.4
1 STACK MASCLERIASKITAN 2 0 246 500 924 524 526 52								37.3	
1 0 0 0 0 0 0 0 0 0	3	765 kV	ANGUL-SRIKAKULAM	2	0	2436	0.0	39.4	-39.4
Import Import									
					·	-			
2 6894Y AUFFERIA REFORMATION 2 0 554 60 7.1 7.1 7.1						•			
Second Company Second									
Import ERAPER 0.0 19.2 1.9						123	0.0	2.0	-2.0
REVIEW REWINASH CARRATH CHERICAGEA 2 9 89 89 121				<u> </u>		ER-NER	0.0	19.2	-19.2
Impurt Impu	Impor					502	0.0	10.1	10.1
Imagestary of WR (With NR)	1	HVDC	BISWANATH CHARIALI-AGRA	2	0				
	Impor	t/Export of WR (With NR)			1,12K-1,1K	V-10		
B HYPE	1	HVDC	CHAMPA-KURUKSHETRA						
POSE CONTINUE CO									
Post N					0			37.2	
7 76 V CWALDRORAL 1 647 0 167 0.0 167 187 0.0 167 18									
9									
10									
1									
13 400 17 17 17 17 17 17 17	11	400 kV	ZERDA-KANKROLI		201	147	1.3	0.9	0.3
16 400 kV RAPT-SHILLALFUR				1					
1 2294 BIANFURA-MORAK				•					
17 220 kV MELIGAON-ALRATIVA 1 97 0 1.0 0.0 1.0				1					
13124V WALIORASAWAI MADHOPUR				1	v				
1324V RACHATLALITUR 2 0 0 0.0 0.0 0.0 0.0			MALANPUR-AURAIYA	•					
Import/Export of WR (With SR)									
HVDC	20	132 RV	KAJGHAT-LALITI UK	-	v	-			
A	Impor								
3 76 kW WARDANIZMAMADD 2 955 1597 8.3 3.8 4.5									
S									
Color	4	765 kV	WARDHA-NIZAMABAD		0		0.0		-27.8
7 229 kV PONDA-AMEWADI									
State Region Line Name Max (MW) Min (MW) Avg (MW) Energy Exchanges	7	220 kV	PONDA-AMBEWADI		0	0	0.0	0.0	0.0
State Region Line Name Max (MW) Min (MW) Avg (MW) Energy Exchange Max (MW) Min (MW) Avg (MW) Energy Exchange Max (MW) Min (MW) Avg (MW) Energy Exchange Max (MW) Energy Exchange Ene	8	220 kV	XELDEM-AMBEWADI	1	0				
State Region Line Name Max (MW) Min (MW) Avg (MW) Energy Exchang (MU)				TEDNIA TIONIA I TET	CHANCES	No-N	20.2		
Region		—				Г			
BANGLADESH		State	Region	-		Max (MW)	Min (MW)	Avg (MW)	
HEP 4-180MW) 400KV TALA BINAGURI 1,2,4 (& 400KV MALBASE - BINAGURI 1,2,4 (& 420KV MALBASE - BINAGURI 1,2			ED			276	225	278	6.69
BHUTAN ER MALBASE - BINAGURI) (a. BINAGURI) (b. BINAGURI) (c. BINAGURI) (c. BINAGURI) (c. BINAGURI) (c. BINAGURI) (c. BINAGURI) (c. BIRAGURI) (c. BIRA			EK .	HEP 4*180MW)	`	3/0	445	2/0	0.08
BHUTAN ER				400kV TALA-BINAGUR		400	-	(24	****
BHUTAN ER MALBASE - BIRPARA 1&2 (& 220kV MALBASE - BIRPARA)			ER			690	0	624	14.98
NER 132kV GELEPHU-SALAKATI 24 0 14 0.34				220kV CHUKHA-BIRPA	RA 1&2 (& 220kV				
NER 132kV GELEPHU-SALAKATI 24 0 14 0.34		BHUTAN	ER			116	2	53	1.26
NER 132kV MOTANGA-RANGIA 65 0 50 1.20				(IFOM CHUKHA HEP 4*8	54MW)				
NEPAL ER NEPAL IMPORT (FROM BIHAR) 0 0 0 0 0.00 ER 400kV DHALKEBAR-MUZAFFARPUR 1&2 500 361 500 12.28 ER BHERAMARA B/B HVDC (B'DESH) -928 -804 -903 -21.66 BANGLADESH ER (Isolated from Indian Grid) 400kV GODDA_TPS-RAHANPUR (B'DESH) D/C -1446 -1004 -1314 -31.52			NER	132kV GELEPHU-SALA	KATI	24	0	14	0.34
NEPAL ER NEPAL IMPORT (FROM BIHAR) 0 0 0 0 0.00 ER 400kV DHALKEBAR-MUZAFFARPUR 1&2 500 361 500 12.28 ER BHERAMARA B/B HVDC (B'DESH) -928 -804 -903 -21.66 BANGLADESH ER (Isolated from Indian Grid) 400kV GODDA_TPS-RAHANPUR (B'DESH) D/C -1446 -1004 -1314 -31.52									
NEPAL ER NEPAL IMPORT (FROM BIHAR) 0 0 0 0.00 ER 400kV DHALKEBAR-MUZAFFARPUR 1&2 500 361 500 12.28 ER BHERAMARA B/B HVDC (B'DESH) -928 -804 -903 -21.66 BANGLADESH ER (Isolated from Indian Grid) 400kV GODDA_TPS-RAHANPUR (B'DESH) D/C -1446 -1004 -1314 -31.52		NER		132kV MOTANGA-RAN	GIA	65	0	50	1.20
NEPAL ER NEPAL IMPORT (FROM BIHAR) 0 0 0 0.00 ER 400kV DHALKEBAR-MUZAFFARPUR 1&2 500 361 500 12.28 ER BHERAMARA B/B HVDC (B'DESH) -928 -804 -903 -21.66 BANGLADESH ER (Isolated from Indian Grid) 400kV GODDA_TPS-RAHANPUR (B'DESH) D/C -1446 -1004 -1314 -31.52									
NEPAL ER NEPAL IMPORT (FROM BIHAR) 0 0 0 0.00 ER 400kV DHALKEBAR-MUZAFFARPUR 1&2 500 361 500 12.28 ER BHERAMARA B/B HVDC (B'DESH) -928 -804 -903 -21.66 BANGLADESH ER (Isolated from Indian Grid) 400kV GODDA_TPS-RAHANPUR (B'DESH) D/C -1446 -1004 -1314 -31.52		NR		132kV MAHENDRANAG	GAR-TANAKPUR(NHPC)	-38	0	29	0.70
ER 400kV DHALKEBAR-MUZAFFARPUR 1&2 500 361 500 12.28 ER BHERAMARA B/B HVDC (B'DESH) -928 -804 -903 -21.66 ER (Isolated from Indian Grid) 400kV GODDA_TPS-RAHANPUR (B'DESH) D/C -1446 -1004 -1314 -31.52				·					
ER 400kV DHALKEBAR-MUZAFFARPUR 1&2 500 361 500 12.28 ER BHERAMARA B/B HVDC (B'DESH) -928 -804 -903 -21.66 ER (Isolated from Indian Grid) 400kV GODDA_TPS-RAHANPUR (B'DESH) D/C -1446 -1004 -1314 -31.52	NEPAL ER		NEPAL IMPORT (FROM	I BIHAR)	0	0	0	0.00	
ER BHERAMARA B/B HVDC (B'DESH) -928 -804 -903 -21.66 BANGLADESH ER (Isolated from Indian Grid) 400kV GODDA_TPS-RAHANPUR (B'DESH) D/C -1446 -1004 -1314 -31.52		EK EK			,	-	<u> </u>		-100
ER BHERAMARA B/B HVDC (B'DESH) -928 -804 -903 -21.66 BANGLADESH ER (Isolated from Indian Grid) 400kV GODDA_TPS-RAHANPUR (B'DESH) D/C -1446 -1004 -1314 -31.52		EB		400kV DHALKERAR-MI	UZAFFARPUR 1&2	500	361	500	12.28
BANGLADESH ER (Isolated from Indian Grid) 400kV GODDA_TPS-RAHANPUR (B'DESH) D/C -1446 -1004 -1314 -31.52			ER	DIMEREDAR-WI		500	501	500	12.20
BANGLADESH ER (Isolated from Indian Grid) 400kV GODDA_TPS-RAHANPUR (B'DESH) D/C -1446 -1004 -1314 -31.52			ED	DUEDAMADA DO HVO	C (P'DESH)	020	904	002	21.66
BANGLADESH (Isolated from Indian Grid) 400KV GODDA_1PS-RAHANPUR (B'DESH) D/C -1446 -1004 -1314 -31.52			ER	BHEKAMAKA B/B HVD	C (R.DESH)	-928	-804	-903	-21.66
BANGLADESH (Isolated from Indian Grid) 400KV GODDA_1PS-RAHANPUR (B'DESH) D/C -1446 -1004 -1314 -31.52	_	ANGE CO	ER	400LY/ GOD	TANDUM CONTROL -			40	
NER 132kV COMILLA-SURAJMANI NAGAR 1&2 -157 0 -134 -3.22	В	ANGLADESH		400kV GODDA_TPS-RA	HANPUR (B'DESH) D/C	-1446	-1004	-1314	-31.52
NER 132kV COMILLA-SURAJMANI NAGAR 1&2 -157 0 -134 -3.22			· · · · · · · · · · · · · · · · · · ·						
	i		NER	132kV COMILLA-SURA	JMANI NAGAR 1&2	-157	0	-134	-3.22

CROSS BORDER EXCHANGE SCHEDULE

Date of Reporting: 30-Sep-2023

Export From India (in MU)

Export From I	ndia (ili MiU)										
			STOA								
	(ISGS/LTA/MTOA)		COLLECTIVE								
Country	PPA	BILATERAL		IDAM			RTM		TOTAL		
		TOTAL	IEX	PXIL	HPX	IEX	PXIL	HPX			
Bhutan	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
Nepal	0.11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11		
Bangladesh	21.71	0.00	0.00	0.00	0.00	0.00	0.00	0.00	21.71		
Myanmar	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
Total Export	21.82	0.00	0.00	0.00	0.00	0.00	0.00	0.00	21.82		

Import by India(in MU)

import by mur									ı
		STOA							
	(ISGS/LTA/MTOA) PPA		COLLECTIVE						
Country		BILATERAL	IDAM			RTM			TOTAL
		TOTAL	IEX	PXIL	HPX	IEX	PXIL	HPX	
Bhutan	22.66	1.76	0.00	0.00	0.00	0.00	0.00	0.00	24.42
Nepal	0.00	2.63	10.11	0.00	0.00	0.00	0.00	0.00	12.74
Bangladesh	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Myanmar	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total Import	22.66	4.39	10.11	0.00	0.00	0.00	0.00	0.00	37.16

Net from India(in MU) -ve : Export / +ve : Import

-ve: Export / +ve: Import									
		STOA							
	(ISGS/LTA/MTOA) PPA	COLLECTIVE							7
Country		BILATERAL	IDAM			RTM			TOTAL
		TOTAL	IEX	PXIL	HPX	IEX	PXIL	HPX	
Bhutan	22.66	1.76	0.00	0.00	0.00	0.00	0.00	0.00	24.42
Nepal	-0.11	2.63	10.11	0.00	0.00	0.00	0.00	0.00	12.63
Bangladesh	-21.71	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-21.71
Myanmar	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total Net	0.84	4.39	10.11	0.00	0.00	0.00	0.00	0.00	15.34