

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

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

Ref: POSOCO/NLDC/SO/Daily PSP Report

दिनांक: 07th 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
- 2. 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 06.09.2023.

महोदय/Dear Sir,

आई॰ई॰जी॰सी॰-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 06-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 06th 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: 07-Sep-2023

A. I ower Supply I osition at Air filtina and Regional lever								
	NR	WR	SR	ER	NER	TOTAL		
Demand Met during Evening Peak hrs(MW) (at 20:00 hrs; from RLDCs)	73649	60160	43894	25696	3134	206533		
Peak Shortage (MW)	1125	0	0	19	260	1404		
Energy Met (MU)	1759	1512	1022	562	70	4926		
Hydro Gen (MU)	333	107	58	119	34	650		
Wind Gen (MU)	13	100	195	-	-	309		
Solar Gen (MU)*	131.87	53.47	105.17	5.18	1.14	297		
Energy Shortage (MU)	7.04	0.00	0.00	1.35	1.15	9.54		
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	78332	67542	48486	26407	3259	219272		
Time Of Maximum Demand Met	14:34	10:58	11:43	19:38	18:06	11:40		

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	0.023	0.00	0.00	1 96	1 96	82.88	15 16

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	15075	0	330.6	196.0	1.0	211	0.00
	Haryana	12642	0	261.2	199.1	-1.5	124	2.65
	Rajasthan	16908	0	350.6	144.3	0.2	585	1.59
	Delhi	6716	0	138.6	114.3	-2.7	151	0.00
NR	UP	25391	0	527.8	235.2	-3.8	323	0.00
	Uttarakhand	2342	0	51.4	27.2	1.4	315	0.38
	HP	1728	0	35.8	6.8	1.7	191	0.50
	J&K(UT) & Ladakh(UT)	2570	175	51.9	24.6	3.7	499	1.92
	Chandigarh	372	0	7.3	7.1	0.2	32	0.00
	Railways_NR ISTS	166	0	3.4	3.3	0.1	59	0.00
	Chhattisgarh	4777	0	109.3	47.9	-1.3	168	0.00
	Gujarat	22747	0	485.9	210.8	-3.2	403	0.00
	MP	11935	0	258.3	156.1	-3.9	823	0.00
WR	Maharashtra	26278	0	584.6	216.0	-4.2	557	0.00
	Goa	673	0	14.0	13.9	0.0	39	0.00
	DNHDDPDCL	1244	0	29.0	29.1	-0.1	67	0.00
	AMNSIL	801	0	18.4	5.1	0.3	273	0.00
	BALCO	522	0	12.5	12.4	0.1	21	0.00
	Andhra Pradesh	9486	0	201.0	55.2	-3.9	402	0.00
	Telangana	8567	0	173.8	38.0	-0.4	707	0.00
SR	Karnataka	11574	0	219.6	66.4	-3.6	556	0.00
	Kerala	3760	0	78.7	67.5	1.2	226	0.00
	Tamil Nadu	16038	0	339.8	128.7	-2.8	500	0.00
	Puducherry	430	0	9.4	9.1	-0.4	23	0.00
	Bihar	6806	0	133.8	129.9	-1.1	315	0.73
	DVC	3434	0	74.2	-46.5	-0.9	292	0.00
	Jharkhand	1617	0	35.8	30.2	0.9	185	0.62
ER	Odisha	4981	0	108.5	33.4	-0.6	284	0.00
	West Bengal	9488	0	208.6	86.2	-2.3	163	0.00
	Sikkim	93	0	1.3	1.5	-0.2	7	0.00
	Railways_ER ISTS	18	0	0.2	0.1	0.0	0	0.00
	Arunachal Pradesh	171	0	3.1	2.8	-0.2	31	0.00
	Assam	2260	0	48.1	39.0	1.9	323	0.70
	Manipur	198	0	2.8	2.8	0.0	30	0.00
NER	Meghalaya	277	0	5.2	1.0	-0.2	32	0.45
	Mizoram	113	0	1.8	1.4	-0.3	22	0.00
	Nagaland	166	0	3.1	2.8	-0.1	44	0.00
	Tripura	293	0	6.0	6.6	0.3	55	0.00

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

	Bhutan	Nepal	Bangladesh	Godda -> Bangladesh
Actual (MU)	32.8	8.6	-25.3	-29.2
Day Peak (MW)	1461.0	397.0	-1106.0	-1450.0

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

E: Import Export by Regions (in Me) - Import (+ve)/Export (-ve), OD(+)/OD(-)									
	NR	WR	SR	ER	NER	TOTAL			
Schedule(MU)	432.8	-209.7	-56.4	-164.0	-2.7	0.0			
Actual(MU)	427.1	-203.4	-54.7	-171.7	0.4	-2.3			
O/D/IJ/D(MIJ)	5.7	6.3	1.7	77	2.1	2.3			

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL	% Share
Central Sector	2344	11007	5248	1370	205	20173	49
State Sector	4936	8106	4752	2744	172	20709	51
Total	7280	19113	10000	4114	377	40882	100

G. Sourcewise generation (Gross) (MU)

	NR	WR	SR	ER	NER	All India	% Share
Coal	838	1488	641	680	14	3662	68
Lignite	30	14	56	0	0	100	2
Hydro	333	107	58	119	34	650	12
Nuclear	29	53	51	0	0	134	2
Gas, Naptha & Diesel	48	78	6	0	28	160	3
RES (Wind, Solar, Biomass & Others)	152	155	345	7	1	660	12
Total	1430	1895	1157	806	77	5366	100
Share of RES in total generation (%)	10.66	8.17	29.78	0.89	1.47	12.30	
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	36.00	16.63	39.18	15.63	44.93	26.91	

H. All India Demand Diversity Factor	
Based on Regional Max Demands	1.02

Based on Regional Max Demands	1.021
Based on State Max Demands	1.061

I. All India Peak	Demand a	nd shortage at Solar	and Non-Solar Hour	
	3.7	D 137 (3777)		_

	Max Demand Met(MW)	Time	Shortage(MW)
Solar hr	219272	11:40	228
Non-Solar hr	210564	19:17	971

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

			INTER-F	REGIONAL EXCH	ANGES		Import=(+ve) /Export Date of Reporting:	
Sl No	Voltage Level	Line Details	No. of Circuit	Max Import (MW)	Max Export (MW)	Import (MU)	Export (MU)	NET (MU)
1	t/Export of ER (\) HVDC	ALIPURDUAR-AGRA	2	0	801	0.0	19.5	-19.5
3	HVDC 765 kV	PUSAULI B/B GAYA-VARANASI	2	0	98 837	0.0	2.3 10.7	-2.3 -10.7
5	765 kV 765 kV	SASARAM-FATEHPUR GAYA-BALIA	1 1	0	541 842	0.0	9.0 15.2	-9.0 -15.2
6	400 kV 400 kV	PUSAULI-VARANASI PUSAULI -ALLAHABAD	1	56 0	55 107	0.0	0.4 1.7	-0.4 -1.7
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	0	939	0.0	15.6	-15.6
9 10	400 kV 400 kV	PATNA-BALIA NAUBATPUR-BALIA	2 2	0	675 730	0.0	12.5 13.1	-12.5 -13.1
11 12	400 kV 400 kV	BIHARSHARIFF-BALIA MOTIHARI-GORAKHPUR	2 2	0	428 517	0.0	5.4 9.2	-5.4 -9.2
13	400 kV	BIHARSHARIFF-VARANASI	2	0	424	0.0	5.2	-5.2
14 15	220 kV 132 kV	SAHUPURI-KARAMNASA NAGAR UNTARI-RIHAND	1	0	0	0.0	0.0	0.0
16 17	132 kV 132 kV	GARWAH-RIHAND KARMANASA-SAHUPURI	1 1	30 0	0	0.6	0.0	0.6
18	132 kV	KARMANASA-CHANDAULI	1	0	0 ER-NR	0.0 0.6	0.0 119.7	0.0 -119.1
Import 1	t/Export of ER (\) 765 kV	With WR) JHARSUGUDA-DHARAMJAIGARH	4	0	1610	0.0	23.5	-23.5
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	1348	0	20.6	0.0	20.6
3	765 kV 400 kV	JHARSUGUDA-DURG JHARSUGUDA-RAIGARH	2 4	0	422 474	0.0	6.4 5.4	-6.4 -5.4
5	400 kV 220 kV	RANCHI-SIPAT BUDHIPADAR-RAIGARH	2	253	101 141	2.4 0.0	0.0 2.0	2.4
7		BUDHIPADAR-KORBA	2	36	23 ER-WR	0.3	0.0 37.4	0.3
mport	t/Export of ER (With SR)			ER-WK	23.4	37.4	-14.0
2	HVDC HVDC	JEYPORE-GAZUWAKA B/B TALCHER-KOLAR BIPOLE	2 2	0	347 1241	0.0	7.5 26.1	-7.5 -26.1
3	765 kV	ANGUL-SRIKAKULAM	2	0	1731	0.0	26.4	-26.4
5	400 kV 220 kV	TALCHER-I/C BALIMELA-UPPER-SILERRU	2	438	0	7.2 0.0	0.0	7.2
mnort	t/Export of ER (With NER)			ER-SR	0.0	60.1	-60.1
1	400 kV	BINAGURI-BONGAIGAON	2	0	522 673	0.0	6.3	-6.3
3	400 kV 220 kV	ALIPURDUAR-BONGAIGAON ALIPURDUAR-SALAKATI	2 2	0	673 145	0.0	1.6	-6.0 -1.6
mnort	t/Export of NER	(With ND)			ER-NER	0.0	13.8	-13.8
1 1		BISWANATH CHARIALI-AGRA	2	0	605 NER-NR	0.0	13.9 13.9	-13.9
mport	t/Export of WR (NER-NR	0.0		-13.9
2	HVDC HVDC	CHAMPA-KURUKSHETRA VINDHYACHAL B/B	2	0 137	5069	0.0	86.6 0.0	-86.6 0.0
3	HVDC	MUNDRA-MOHINDERGARH	2	0	1453	0.0	36.3	-36.3
5	765 kV 765 kV	GWALIOR-AGRA GWALIOR-PHAGI	2 2	0	2552 2016	0.0	41.6 38.3	-41.6 -38.3
7	765 kV 765 kV	JABALPUR-ORAI GWALIOR-ORAI	2	0 821	1384	0.0 16.2	50.0 0.0	-50.0 16.2
8	765 kV	SATNA-ORAI	1	0	1143	0.0	23.8 3.5	-23.8
9 10	765 kV 765 kV	BANASKANTHA-CHITORGARH VINDHYACHAL-VARANASI	2 2	1233 0	956 3450	10.7 0.0	58.0	7.2 -58.0
11 12	400 kV 400 kV	ZERDA-KANKROLI ZERDA -BHINMAL	1	194 330	148 320	1.9 0.2	0.5	1.4 0.2
13 14	400 kV 400 kV	VINDHYACHAL -RIHAND RAPP-SHUJALPUR	1 2	918 0	0 701	21.4 0.0	0.0 8.6	21.4 -8.6
15	220 kV	BHANPURA-RANPUR	1	0	0	0.0	0.0	0.0
16 17	220 kV 220 kV	BHANPURA-MORAK MEHGAON-AURAIYA	1	0 91	30	0.0 1.2	2.3	-2.3 1.2
18 19	220 kV 132 kV	MALANPUR-AURAIYA GWALIOR-SAWAI MADHOPUR	1	64	1 0	0.7 0.0	0.0	0.7 0.0
20	132 kV	RAJGHAT-LALITPUR	2	0	0	0.0	0.0 349.5	0.0
mport	t/Export of WR (,	_	_	WR-NR	52.2		-297.3
2	HVDC HVDC	BHADRAWATI B/B RAIGARH-PUGALUR	2	996 284	0 1103	22.4 0.0	0.0 19.6	22.4 -19.6
3	765 kV 765 kV	SOLAPUR-RAICHUR WARDHA-NIZAMABAD	2 2	2920 1035	0 1078	39.3 0.0	0.0 2.6	39.3
5	400 kV	KOLHAPUR-KUDGI	2	1868	0	38.1	0.0	-2.6 38.1
7	220 kV 220 kV	KOLHAPUR-CHIKODI PONDA-AMBEWADI	2	0	0	0.0	0.0	0.0
8	220 kV	XELDEM-AMBEWADI	1	0	120 WR-SR	2.3 102.0	0.0 22.2	2.3 79.8
		IN	TERNATIONAL EX	CHANGES	WK-SK	102.0		(+ve)/Export(-ve)
	State	Region		Name	Max (MW)	Min (MW)	Avg (MW)	Energy Exchange
		ER	400kV MANGDECHHU- ALIPURDUAR RECEIP HEP 4*180MW)	ALIPURDUAR 1,2&3 i.e. T (from MANGDECHU	562	448	507	(MU) 12.16
		ER	400kV TALA-BINAGUR MALBASE - BINAGUR RECEIPT (from TALA I	RI) i.e. BINAGURI HEP 6*170MW)	936	774	799	19.18
	BHUTAN	ER	220kV CHUKHA-BIRPA MALBASE - BIRPARA) (from CHUKHA HEP 4*	i.e. BIRPARA RECEIPT	-143	102	52	1.26
		NER	132kV GELEPHU-SALA	KATI	35	7	10	0.24
		NER	132kV MOTANGA-RAN	GIA	0	0	0	0.00
		NR	132kV MAHENDRANA	GAR-TANAKPUR(NHPC)	-49	0	-1	-0.03
	NEPAL	ER	NEPAL IMPORT (FROM	M BIHAR)	0	0	0	0.00
		ER	400kV DHALKEBAR-M	UZAFFARPUR 1&2	446	272	360	8.65
		ER	BHERAMARA B/B HVI		-942	-838	-916	-21.99
BA	ANGLADESH	ER (Isolated from Indian Grid)		HANPUR (B'DESH) D/C	-1450	-941	-1215	-29.16
		NER	132kV COMILLA-SURA	JMANI NAGAR 1&2	-164	0	-138	-3.32

CROSS BORDER EXCHANGE SCHEDULE

Date of Reporting: 07-Sep-2023

Export From India (in MU)

			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	0.09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.09
Bangladesh	21.99	0.00	0.00	0.00	0.00	0.00	0.00	0.00	21.99
Myanmar	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total Export	22.08	0.00	0.00	0.00	0.00	0.00	0.00	0.00	22.08

Import by India(in MU)

import by mun	u(111 1:10)								
			STOA						
	(ISGS/LTA/MTOA)		COLLECTIVE						
Country	PPA	BILATERAL	IDAM			RTM			TOTAL
		TOTAL	IEX	PXIL	HPX	IEX	PXIL	HPX	
Bhutan	30.43	2.29	0.00	0.00	0.00	0.00	0.00	0.00	32.72
Nepal	0.00	0.00	9.12	0.00	0.00	0.00	0.00	0.00	9.12
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	30.43	2.29	9.12	0.00	0.00	0.00	0.00	0.00	41.84

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

Net Irom mula	(III IVIO)						-ve .	Export / +ve : II	прогі	
			STOA							
	(ISGS/LTA/MTOA)		COLLECTIVE							
Country	PPA	BILATERAL	IDAM			RTM			TOTAL	
		TOTAL	IEX	PXIL	HPX	IEX	PXIL	HPX		
Bhutan	30.43	2.29	0.00	0.00	0.00	0.00	0.00	0.00	32.72	
Nepal	-0.09	0.00	9.12	0.00	0.00	0.00	0.00	0.00	9.03	
Bangladesh	-21.99	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-21.99	
Myanmar	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
Total Net	8.35	2.29	9.12	0.00	0.00	0.00	0.00	0.00	19.76	