

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, कुतुब इन्स्टीट्यूशनल एरिया, कटवारिया सराये, न्यू दिल्ली-110016

Ref: POSOCO/NLDC/SO/Daily PSP Report

दिनांक: 20th July 2023

To,

- 1. 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 19.07.2023.

महोदय/Dear Sir,

आई॰ई॰जी॰सी॰-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 19-जुलाई-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 19th July 2023, is available at the NLDC website.

धन्यवाद.

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



Report for previous day Date of Reporting: 20-Jul-2023

A. Power Suppl	v Position at	t All India	and Regional level

	NR	WR	SR	ER	NER	TOTAL
Demand Met during Evening Peak hrs(MW) (at 20:00 hrs; from RLDCs)	71085	55171	44905	26669	3454	201284
Peak Shortage (MW)	1242	0	0	692	42	1976
Energy Met (MU)	1579	1277	1042	603	68	4570
Hydro Gen (MU)	377	50	60	135	34	655
Wind Gen (MU)	15	154	296	-	-	465
Solar Gen (MU)*	106.27	35.67	73.64	2.44	1.36	219
Energy Shortage (MU)	5.39	0.00	0.00	5.11	0.59	11.09
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	72185	56566	49104	28558	3490	201837
Time Of Maximum Demand Met	22:42	19:48	10:39	23:06	19:30	19:48

B. Frequency Profile (%)

~ •	EVI	40 =	40 = 40 0	40.0 40.0	40.0	40.0 =0.0=	50.05
Region	FVI	< 49.7	49.7 - 49.8	49.8 - 49.9	< 49.9	49.9 - 50.05	> 50.05
All India	0.028	0.00	0.54	2.93	3.47	79.39	17.14

C. Power Supply Position in States

		Max.Demand	Shortage during	Energy Met	Drawal	OD(+)/UD(-)	Max OD	Energy
Region	States	Met during the	maximum	(MU)	Schedule	(MU)	(MW)	Shortage (MU)
		day (MW)	Demand (MW)	(MIU)	(MU)	(MU)	(IVI VV)	
	Punjab	12976	0	286.7	162.1	-1.4	130	0.00
	Haryana	9804	750	215.8	162.8	-0.8	186	2.50
	Rajasthan	13107	0	280.4	101.3	2.8	459	2.35
	Delhi	6466	0	130.2	118.9	-1.4	158	0.00
NR	UP	27001	0	531.7	255.1	0.1	271	0.46
	Uttarakhand	2060	0	45.1	24.0	0.5	403	0.07
	HP	1601	0	32.8	0.7	-0.5	142	0.01
	J&K(UT) & Ladakh(UT)	2420	0	46.3	22.5	-2.3	167	0.00
	Chandigarh	348	0	7.0	7.1	0.0	31	0.00
	Railways_NR ISTS	149	0	3.2	3.5	-0.3	8	0.00
	Chhattisgarh	4838	0	105.8	56.2	0.2	410	0.00
	Gujarat	16825	0	378.9	159.3	-1.1	897	0.00
	MP	11185	0	242.9	140.0	2.2	996	0.00
WR	Maharashtra	21745	0	478.4	165.4	-1.7	612	0.00
	Goa	586	0	11.9	12.0	-0.5	38	0.00
	DNHDDPDCL	1297	0	30.0	29.9	0.1	29	0.00
	AMNSIL	862	0	17.0	10.7	-0.9	242	0.00
	BALCO	520	0	12.4	12.5	-0.1	39	0.00
	Andhra Pradesh	8893	0	193.7	22.9	0.8	571	0.00
	Telangana	10039	0	189.9	74.8	0.8	620	0.00
SR	Karnataka	10657	0	201.6	23.5	-2.4	472	0.00
	Kerala	3891	0	78.3	55.5	1.5	318	0.00
	Tamil Nadu	16797	0	368.6	152.3	-3.0	366	0.00
	Puducherry	431	0	10.1	9.6	-0.3	42	0.00
	Bihar	6886	383	148.6	139.0	-0.9	252	4.63
	DVC	3429	0	76.2	-31.7	-1.1	203	0.00
	Jharkhand	1729	0	36.5	32.0	-0.2	137	0.48
ER	Odisha	6526	0	118.4	37.6	-0.8	488	0.00
	West Bengal	10280	0	222.1	109.8	-1.2	278	0.00
	Sikkim	88	0	1.2	1.1	0.0	34	0.00
	Railways_ER ISTS	23	0	0.1	0.3	-0.2	6	0.00
	Arunachal Pradesh	171	0	3.0	2.4	0.2	48	0.00
	Assam	2370	0	46.7	38.4	0.8	138	0.00
	Manipur	202	0	2.7	2.8	-0.1	21	0.00
NER	Meghalaya	322	0	5.3	0.6	-0.2	37	0.59
	Mizoram	116	0	1.8	1.6	-0.2	14	0.00
	Nagaland	168	0	3.0	2.6	0.0	19	0.00
	Tripura	325	0	6.0	5.7	0.1	52	0.00

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

	Bhuta	n Nepal	Bangladesh	Godda -> Bangladesh
Actual (MU)	43.6	5.9	-25.0	-17.1
Day Peak (MW)	1982.3	3 294.0	-1096.0	-741.0

 $\underline{\textbf{E. Import/Export by Regions (in MU) - Import(+ve)/Export(-ve); OD(+)/UD(-)}\\$

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	326.7	-256.0	-2.0	-64.6	-4.2	0.0
Actual(MU)	315.8	-253.0	-2.8	-63.3	-1.0	-4.3
O/D/U/D(MU)	-10.9	3.0	-0.9	1.3	3.2	-4.3

F. Generation Outage(MW)

2 Contraction Catalog (1.1717)							
	NR	WR	SR	ER	NER	TOTAL	% Share
Central Sector	3057	11709	7968	4030	271	27035	46
State Sector	6630	13976	7563	3830	212	32210	54
Total	9687	25684	15531	7860	483	59245	100

G. Sourcewise generation (Gross) (MU)

	NR	WR	SR	ER	NER	All India	% Share
Coal	760	1320	553	594	13	3241	66
Lignite	28	12	57	0	0	97	2
Hydro	377	50	60	135	34	655	13
Nuclear	29	49	46	0	0	125	3
Gas, Naptha & Diesel	33	26	7	0	28	94	2
RES (Wind, Solar, Biomass & Others)	128	191	390	4	1	714	14
Total	1355	1649	1113	733	77	4926	100
Share of RES in total generation (%)	9.43	11.58	35.05	0.50	1.77	14.49]
Share of Non-fossil fuel (Hydro Nuclear and RES)							

Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	39.40	17.61	44.62	18.86	
H. All India Demand Diversity Factor			I. All India Peak	Demand and shor	tage a

1.039

1.075

1. Mil maia i cak	Demand and shortage at botal and	TOII-DOIGI TIOUI	
	Max Demand Met(MW)	Time	Shortage(MW)
Solar hr	200861	11:54	16
Non-Solar hr	201837	19:48	1377

45.71

30.33

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

Based on Regional Max Demands

Based on State Max Demands

^{**}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

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

No. Contingent			INTER-R	REGIONAL EXCH	IANGES		Import=(+ve) /Export Date of Reporting:	=(-ve) for NET (MU) 20-Jul-2023
The content of the	·		No. of Circuit	Max Import (MW)	Max Export (MW)	Import (MU)		
1	1 HVDC	ALIPURDUAR-AGRA	2					
1								
1	4 765 kV	SASARAM-FATEHPUR						
BOOK DICKATE FACE CORDANY 2	6 400 kV	PUSAULI-VARANASI	1	0	127	0.0	2.0	-2.0
10 10 10 10 10 10 10 10	8 400 kV	MUZAFFARPUR-GORAKHPUR	2	0	628	0.0	9.9	-9.9
10								
Depto No.	11 400 kV	BIHARSHARIFF-BALIA	2	166	147	0.0		-1.6
10 10 10 10 10 10 10 10	13 400 kV	BIHARSHARIFF-VARANASI	2	268	102	0.5	0.0	0.5
December			<u> </u>					
Distant Dist			•					
ImportSpeed of RR (Wile Wile 1			1		0	0.0		0.0
Secret Note According Secret Se	Import/Export of	f ER (With WR)			ER-NK	2.1	74.3	-72.1
S. SALV BRANCH DELONGER 2 250 360 44 40 40 50 51 51 51 51 51 51 5								
BANK	3 765 kV	JHARSUGUDA-DURG	2	357	345	0.4	0.0	0.4
DESIGN PROPERTY OF COLUMN ASSESSMENT 2	5 400 kV	RANCHI-SIPAT			44	5.1	0.0	5.1
TRAVEL 42 42 42 42 42 42 42 4								
BYSIC STATISTICATE AND AND 2 190	•			-	ER-WR		4.2	
DEC TALLERS ADDRESSES 2 0 1508	1 HVDC	JEYPORE-GAZUWAKA B/B	2	189		4.9		
\$\frac{8}{2} \ \frac{1}{2} \	2 HVDC	TALCHER-KOLAR BIPOLE		0	1638	0.0		-32.2
PROPRESSON 1	4 400 kV	TALCHER-I/C	2	386	370	0.0	0.0	0.0
	5 220 kV	BALIMELA-UPPER-SILERRU	1	0				
Bean ALTERIOR REPORT ADDRESS 2 180 273 00 3.0							•	
BROWN 1000	2 400 kV	ALIPURDUAR-BONGAIGAON		180	273		3.0	
Import NER (WISH NE)	3 220 kV	ALIPURDUAR-SALAKATI	2	25				
ImportExport of VR (With NR)								
	1 HVDC	BISWANATH CHARIALI-AGRA	2	0				
2 HYDE VINDIFICATION PART P				_				
3								
S						5.8		5.8
7	5 765 kV	GWALIOR-PHAGI	2	37	1568	0.0	21.7	-21.7
79 765 kV								
10			1 2					
12 400 kV ZERRA ABRINNAL 1 236 500 1.0 2.1 -1.1	10 765 kV	VINDHYACHAL-VARANASI	2	0	3382	0.0	62.4	-62.4
14 400 kV RAPPSHUALPUR	12 400 kV	ZERDA -BHINMAL	-	236	369	1.0	2.1	-1.1
S 2204V BIANFURARANPIR								
17 229 kV MAIANTEWARKENTA		BHANPURA-RANPUR	-					0.0
132 kV GWALIOR-SAWAH MADHOFUR 1	17 220 kV	MEHGAON-AURAIYA	i	134	0	1.9	0.0	1.9
The content of the								
ImportExport of WR (With SR) 1	20 132 kV	RAJGHAT-LALITPUR	2	0				
2			_					
A								
S 490 kV ROLHAPURKUDGI 2 1408 0 27.6 0.0 27.6								
7 220 kV PONDA-AMBEWADI	5 400 kV	KOLHAPUR-KUDGI	2	1408	0	27.6	0.0	27.6
STERNATIONAL EXCHANGES								
State Region Line Name Max (MW) Min (MW) Avg (MW) Energy Exchange (MU)	8 220 kV	XELDEM-AMBEWADI	1	0				
State Region Line Name Max (MW) Min (MW) Avg (MW) Energy Exchange Max (MW) Min (MW) Avg (MW) Energy Exchange Mill		I	TERNATIONAL EX	CHANGES	WK-DK	03.7		
BANGLADESH ER Alduror Alduro	State				Max (MW)	Min (MW)		Energy Exchange
BHUTAN ER MALBASE - BINAGURI) i.e. BINAGURI 1118 720 1031 24.75			400kV MANGDECHHU-	ALIPURDUAR 1,2&3 i.e.	, ,		0,	
BHUTAN ER		FD	400kV TALA-BINAGUR		1118	720	1031	24.75
NER 132kV GELEPHU-SALAKATI 30 27 28 0.66			RECEIPT (from TALA F 220kV CHUKHA-BIRPA	HEP 6*170MW) RA 1&2 (& 220kV				
NER 132kV MOTANGA-RANGIA 70 8 51 1.23	BHUIAN		(from CHUKHA HEP 4*	84MW)				
NEPAL ER NEPAL IMPORT (FROM BIHAR) 0 0 0 0 0.00 ER 48 -1.16 ER 400kV DHALKEBAR-MUZAFFARPUR 1&2 366 211 294 7.06 ER BHERAMARA B/B HVDC (B'DESH) -927 -780 -896 -21.51 ER (Isolated from Indian Grid) 400kV GODDA_TPS-RAHANPUR (B'DESH) D/C -741 -655 -710 -17.05		NER	132kV GELEPHU-SALA	KATI	30	27	28	0.66
NEPAL ER NEPAL IMPORT (FROM BIHAR) 0 0 0 0 0.00 ER 400kV DHALKEBAR-MUZAFFARPUR 1&2 366 211 294 7.06 ER BHERAMARA B/B HVDC (B'DESH) -927 -780 -896 -21.51 ER (Isolated from Indian Grid) 400kV GODDA_TPS-RAHANPUR (B'DESH) D/C -741 -655 -710 -17.05		NER	132kV MOTANGA-RAN	GIA	70	8	51	1.23
ER 400kV DHALKEBAR-MUZAFFARPUR 1&2 366 211 294 7.06 ER BHERAMARA B/B HVDC (B'DESH) -927 -780 -896 -21.51 ER (Isolated from Indian Grid) 400kV GODDA_TPS-RAHANPUR (B'DESH) D/C -741 -655 -710 -17.05			132kV MAHENDRANAO	GAR-TANAKPUR(NHPC)	-72	0	-48	-1.16
BANGLADESH ER BHERAMARA B/B HVDC (B'DESH) -927 -780 -896 -21.51 ER (Isolated from Indian Grid) 400kV GODDA_TPS-RAHANPUR (B'DESH) D/C -741 -655 -710 -17.05			NEPAL IMPORT (FROM	M BIHAR)	0	0	0	0.00
BANGLADESH ER (Isolated from Indian Grid) 400kV GODDA_TPS-RAHANPUR (B'DESH) D/C -741 -655 -710 -17.05		ER	400kV DHALKEBAR-M	UZAFFARPUR 1&2	366	211	294	7.06
BANGLADESH (Isolated from Indian Grid) 400KV GODDA_IPS-RAHANPUR (B'DESH) D/C -741 -655 -710 -17.05		ER	BHERAMARA B/B HVD	PC (B'DESH)	-927	-780	-896	-21.51
NER 132kV COMILLA-SURAJMANI NAGAR 1&2 -169 0 -146 -3.50	BANGLADES	H I	400kV GODDA_TPS-RA	HANPUR (B'DESH) D/C	-741	-655	-710	-17.05
		NER	132kV COMILLA-SURA	JMANI NAGAR 1&2	-169	0	-146	-3.50