

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

Ref: POSOCO/NLDC/SO/Daily PSP Report

दिनांक: 30th July 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 29.07.2023.

महोदय/Dear Sir,

आई॰ई॰जी॰सी॰-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 29-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 29th July 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-Jul-2023

	NR	WR	SR	ER	NER	TOTAL
Demand Met during Evening Peak hrs(MW) (at	(5(10	52292	45771	23813	2200	191974
20:00 hrs; from RLDCs)	65610	53382	45771	23813	3398	1919/4
Peak Shortage (MW)	130	0	0	0	24	154
Energy Met (MU)	1430	1222	1028	589	65	4335
Hydro Gen (MU)	434	70	75	135	36	750
Wind Gen (MU)	51	246	243	-	-	541
Solar Gen (MU)*	103.08	43.00	112.32	4.68	0.85	264
Energy Shortage (MU)	0.26	0.00	0.00	0.14	0.48	0.88
Maximum Demand Met During the Day (MW)	((447	55057	49/22	20040	2504	102750
(From NLDC SCADA)	66447	55056	48622	29049	3504	192758
Time Of Maximum Demand Met	22:37	19:47	10:40	00:01	19:39	20:58

B. Frequency Profile (%) Region All India FVI < 49.7 49.7 - 49.8 49.8 - 49.9 < 49.9 49.9 - 50.05 > 50.05 0.076 0.00 2.93 21.44 0.14 75.63

C. Power Supply Position in States

. Tower Supply I		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)
	D L	12873	0	273.7	170.9	2.0	263	0.00
	Punjab	9478	0	199.1	151.5	-2.0 -2.2	112	0.00
	Haryana	10369	0		49.0	-2.2	361	
	Rajasthan		_	234.2				0.00
NID	Delhi UP	5263	0	112.7	103.2	-1.7	100	0.00
NR	UP Uttarakhand	24477	0	469.8	244.0	-2.3 0.3	1160	0.00
		2111	_	46.0	22.1		173	0.00
	HP	1750	18	35.6	2.1	0.0	160	0.05
	J&K(UT) & Ladakh(UT)	2422	130	49.4	28.0	-2.5	146	0.21
	Chandigarh	302	0	6.3	6.5	-0.2	15	0.00
	Railways_NR ISTS	158	0	3.2	3.5	-0.4	0	0.00
	Chhattisgarh	4615	0	104.2	54.8	-2.5	211	0.00
	Gujarat	15149	0	344.2	154.7	0.0	645	0.00
	MP	10955	0	242.2	117.8	-3.5	441	0.00
WR	Maharashtra	20963	0	457.5	169.3	-3.9	1073	0.00
	Goa	630	0	12.4	12.3	-0.2	36	0.00
	DNHDDPDCL	1287	0	30.1	29.9	0.2	140	0.00
	AMNSIL	867	0	19.0	9.2	0.2	296	0.00
	BALCO	523	0	12.5	12.4	0.1	37	0.00
	Andhra Pradesh	8891	0	194.7	34.4	-1.3	491	0.00
	Telangana	9626	0	197.4	88.1	1.9	748	0.00
\mathbf{SR}	Karnataka	9568	0	173.6	26.6	1.1	1016	0.00
	Kerala	3795	0	75.6	57.0	1.0	300	0.00
	Tamil Nadu	17455	0	376.3	159.5	-0.8	557	0.00
	Puducherry	462	0	10.7	10.4	-0.5	43	0.00
	Bihar	7326	0	134.1	133.8	-7.8	383	0.14
	DVC	3483	0	71.7	-25.0	-0.5	244	0.00
	Jharkhand	1651	0	33.8	30.3	-1.3	121	0.00
ER	Odisha	6616	0	124.2	49.9	-0.5	417	0.00
	West Bengal	10131	0	224.3	97.9	-0.9	340	0.00
	Sikkim	73	0	1.1	1.0	0.1	21	0.00
	Railways_ER ISTS	15	0	0.1	0.1	0.0	0	0.00
	Arunachal Pradesh	163	0	2.7	2.6	-0.3	20	0.00
	Assam	2345	0	43.2	36.2	-0.2	131	0.00
	Manipur	196	0	2.8	2.9	-0.1	22	0.00
NER	Meghalaya	320	8	5.6	1.7	-0.1	131	0.48
	Mizoram	117	0	2.0	1.6	-0.1	20	0.00
	Nagaland	163	0	3.1	2.7	-0.1	18	0.00
	Tripura	334	0	6.0	5.6	0.0	59	0.00

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

	Bhutan	Nepal	Bangladesh	Godda -> Bangladesh
Actual (MU)	44.5	8.6	-25.2	-18.1
Day Peak (MW)	1898.0	393.0	-1076.0	-790.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	268.1	-246.4	19.9	-35.3	-6.2	0.0
Actual(MU)	227.1	-253.1	39.0	-15.4	-4.9	-7.3
O/D/IJ/D(MI)	-41 0	-6.7	10 1	20.0	1.3	₋ 7 3

F. Generation Outage(MW)

1. Generation Gutage(M1)							
	NR	WR	SR	ER	NER	TOTAL	% Share
Central Sector	5959	11346	5838	3545	271	26959	42
State Sector	7675	16783	9563	2928	171	37120	58
Total	13634	28129	15401	6473	442	64328	100

G. Sourcewise generation (Gross) (MU)

G. Sourcewise generation (Gross) (WC)							
	NR	WR	SR	ER	NER	All India	% Share
Coal	621	1135	481	533	10	2780	60
Lignite	23	5	51	0	0	79	2
Hydro	434	70	75	135	36	750	16
Nuclear	29	50	63	0	0	143	3
Gas, Naptha & Diesel	13	11	6	0	29	59	1
RES (Wind, Solar, Biomass & Others)	161	292	379	6	1	839	18
Total	1281	1563	1055	675	77	4650	100
GI 877G 1 4 4 1 41 (0/)							1
Share of RES in total generation (%)	12.57	18.69	35.91	0.95	1.11	18.05	
Share of Non-fossil fuel (Hydro, Nuclear and RES)	48.72	26.37	49.05	20.99	48.15	37.25	
in total generation(%)	40.72	20.37	49.05	20.99	40.15	37.25	

H. All India Demand Diversity Factor

III III III III Dellalla Diversity I actor	
Based on Regional Max Demands	1.051
Based on State Max Demands	1.073
•	

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

	Max Demand Met(MW)	Time	Shortage(MW)
Solar hr	191209	10:22	24
Non-Solar hr	192758	20:58	154

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-Jul-2023

THE COLOR OF PR. 1989. NO. 1989. 1989 1980 1	Sl No Voltage Level	Line Details	No. of Circuit	Max Import (MW)	Max Export (MW)	Import (MU)	Export (MU)	NET (MU)
1			2	0	501	0.0	12.6	-12.6
1	2 HVDC	PUSAULI B/B	:		108	0.0	2.5	-2,5
The content of the								
1	7 400 kV	PUSAULI -ALLAHABAD	-		80	0.0	0.8	-0.8
10								
13 SOUTH MATTERS AND AND ASSESSMENT 3 4 555 500 1 1 1 1 1 1 1 1 1	10 400 kV	NAUBATPUR-BALIA		122	293	0.0	1.1	-1.1
10		BIHARSHARIFF-BALIA MOTHARL-GORAKHPUR						
15 15 15 15 15 15 15 15	13 400 kV	BIHARSHARIFF-VARANASI		242	242	1.3	0.0	1.3
10 10 10 10 10 10 10 10		SAHUPURI-KARAMNASA NAGAR IINTARI-RIHAND	1					
18 19 19 19 19 19 19 19	16 132 kV	GARWAH-RIHAND		30	0	0.4	0.0	0.4
The part								
	•			•			44.6	
2 SAY SOPE RANDERSHAMMAN 2 1077 1 771 10 10 721 10 10 12 12 12 12 12			1	1807		20.6	1 00	20.6
MINOR MINOR MANAGEMEN							0.0	
S. MINING SACRESTORY 2 396								
	5 400 kV	RANCHI-SIPAT		396	0	5.7	0.0	
INTENDED TOTAL T								
PATINGE PATINGE CASTONISA, REP 2 92 2 10 10 10 10 10 10 10	7 220 KV	BUDHII ADAR-KURDA						
1 1 1 1 1 1 1 1 1 1								
1 SPEAN ANGLADBRACKLASM 2 9 1777 02 420 42								
S 2024 BALDELALPERSELISE 1 9 0 0 0 0 0 0 0 0 0	3 765 kV	ANGUL-SRIKAKULAM	2	0	3177	0.0	43.0	-43.0
Image: I			1					
BINALE RESOLUTION 2 73 75 75 75 75 75 75 75	•							
1			2	72	277	0.2	1 0	-1 7
The color of NER (WHI NER)	2 400 kV	ALIPURDUAR-BONGAIGAON	2	112	399	0.0	2.8	-2.8
INDESTRUCTION NEW WIRD NEW WORD NEW	3 220 kV	ALIPURDUAR-SALAKATI	2	0				
HYDEC SISSYANTH CHARMALANDA 2 9 503 151 151 151	Import/Export of NER	R (With NR)			EK-NEK	0.2	5.8	-5./
INDIPATE PROPERTY	1 HVDC	BISWANATH CHARIALI-AGRA	2	0				
HYPE	Import/Ermont of WD	(With ND)			NER-NR	0.0	12.1	-12.1
BYDIC VINDIACRIAL ROP - 0 288			2	0	2528	0.0	51.5	-51.5
4 75 15 15 15 15 15 15 15	2 HVDC	VINDHYACHAL B/B		0	295	0.0	7.2	-7.2
S								
7	5 765 kV	GWALIOR-PHAGI						
Process Proc			1					
10	8 765 kV	SATNA-ORAI	•					
1		VINDHYACHAL-VARANASI						
10 400 kV VINDITACHIAL RIHINO 1 989 0 181 400 161 414 400 kV RAPPSHILAPIR 2 319 659 2.0 3.4 1.4 1.4 1.5 1.5 2.0 kV MARYERALAPIR 1 0 0 0 0.0			1					
15 2294	13 400 kV	VINDHYACHAL -RIHAND		959	0	18.1	0.0	18.1
10 220			2					
18 220 kW MALANTERATRAINA 1 0 0 0 0.0	16 220 kV	BHANPURA-MORAK	1	0	30	0.0	2.1	-2.1
1324Y GWALJORSANYALMOHOPUR 1 0 0 0 0 0 0 0 0 0			1					
Import Export of WR (With SR)	19 132 kV	GWALIOR-SAWAI MADHOPUR	1	-		0.0	0.0	0.0
	20 132 kV	RAJGHAT-LALITPUR	2	0				
HYDE HADRAWATER - 994 0 19.2 0.0 19.3	Import/Export of WR	(With SR)			VV K-11K	40.5	223.4	-105.1
765 kV WARDHANIZAMARD 2 1578 1846 9.6 5.2 4.4 4 765 kV WARDHANIZAMARD 2 10 3127 0.0 32.5 3.25 5 400 kV WARDHANIZAMARD 2 1044 0 25.6 0.0 25.6 6 220 kV KOHAPUR-CHIKODI 2 1044 0 0.0 0.0 0.0 7 220 kV KOHAPUR-CHIKODI 1 0 0 0.5 8 220 kV WALDHA-MIREVARD 1 0 0 0.5 9 20 kV WALDHA-MIREVARD 1 0 0 0.5 10 kV WALDHA-MIREVARD 1 0 0 0 10 kV WALDHA-MIREVARD 1 0 0 10 kV WALDHA-MIREVARD 1 0 0 0 10 kV WALDHA-MIREVARD 1 0 0 0 10 kV WALDHA-MIREVARD 1 0 0 10 kV WALDHA-MIREVARD 1 0 0 0 0 0 10 kV WALDHA-MIREVARD 1 0 0 0 0 0 10 kV WALDHA-MIREVARD 1 0 0 0 0 0 10 kV WALDHA-MIREVARD 1 0 0 0 0 0 10 kV WALDHA-MIREVARD 1 0 0 0 0 0 10 kV WALDHA-MIREVARD 1 0 0 0 0 0 10 kV WALDHA-MIREVARD 1 0 0 0 0 0 10 kV WALDHA-MIREVARD 1 0 0 0 0 0 10 kV WALDHA-MIREVARD 1 0 0 0 0 0 10 kV WALDHA-MIREVARD 1 0 0 0 0 0 0 10 kV WALDHA-MIREVARD 1 0 0 0 0 0 0 10 kV WALDHA-MIREVARD 1 0 0 0 0 0 0 0 0 10 kV WALDHA	1 HVDC	BHADRAWATI B/B						
1 765 kV WARDIA-NIZAMBADA 2 0 3327 0.0 32.5 3.25 40 kV KOLHAPUR-KUDGI 2 1694 0 2.56 0.0 2.56 6 229 kV KOLHAPUR-KUDGI 2 0 0 0 0.0 0.0 7 229 kV PONDA-AMBEWADI 1 0 128 2.3 0.0 0.2 8 229 kV XELDEM-AMBEWADI 1 0 128 2.3 0.0 0.2								
\$\begin{array}{c c c c c c c c c c c c c c c c c c c	4 765 kV	WARDHA-NIZAMABAD		0	3127	0.0	32.5	-32.5
1								
State State Region Line Name Max (MW) Min (MW) Avg (MW) Energy Exchange (MU)	7 220 kV	PONDA-AMBEWADI	1	0	0	0.0	0.0	0.0
INTERNATIONAL EXCHANGES	8 220 kV	AELDEM-AMBEWADI	1	U				
State Region Line Name Max (MW) Min (MW) Avg (MW) Energy Exchange (MIL)		IN	TERNATIONAL EY	CHANGES	,, at 511	20.7		
BHUTAN ER A60kV MANGDECHHU-ALIPURDUAR 1,2&3 i.e. ALIPURDUAR BLEASTIC (MILT)	State				Mov (MW)	Min (MW)		
BHUTAN ER	state	Region			IVIAN (IVI VV)	TATILI (TATAA)	Avg (MIVI)	(MU)
HEF 4 = 180MW ALA BINAGURI 1,2.4 (& 400kV ALA BINAGURI 1,2.4		ER	ALIPURDUAR RECEIPT	(from MANGDECHU	609	567	603	14.48
BHUTAN ER								
RECEIPT (from TAL HEF 6*170MW) 220kV CHUKHA BIRPARA 182 (8 220kV		ER			1060	993	1010	24.23
BHUTAN ER MALBASE - BIRPARA) i.e. BIRPARA RECEIPT 192 125 163 3.92			RECEIPT (from TALA H	EP 6*170MW)				
NER 132kV GELEPHU-SALAKATI 26 18 23 0.55	BHUTAN	ER		*	192	125	163	3.92
NER								
NER		NER	132kV GELEPHU-SALAI	KATI	26	18	23	0.55
NEPAL ER NEPAL IMPORT (FROM BIHAR) 0 4 0.10 ER 400kV DHALKEBAR-MUZAFFARPUR 1&2 437 197 352 8.45 ER BHERAMARA B/B HVDC (B'DESH) -934 -932 -933 -22.38 BANGLADESH ER (Isolated from Indian Grid) 400kV GODDA_TPS-RAHANPUR (B'DESH) D/C -790 -708 -754 -18.09					-			
NEPAL ER NEPAL IMPORT (FROM BIHAR) 0 4 0.10 ER 400kV DHALKEBAR-MUZAFFARPUR 1&2 437 197 352 8.45 ER BHERAMARA B/B HVDC (B'DESH) -934 -932 -933 -22.38 BANGLADESH ER (Isolated from Indian Grid) 400kV GODDA_TPS-RAHANPUR (B'DESH) D/C -790 -708 -754 -18.09		NER	132kV MOTANGA-RANG	GIA	66	40	55	1.31
NEPAL ER NEPAL IMPORT (FROM BIHAR) 0 0 0 0 0.00 ER 400kV DHALKEBAR-MUZAFFARPUR 1&2 437 197 352 8.45 ER BHERAMARA B/B HVDC (B'DESH) -934 -932 -933 -22.38 BANGLADESH ER (Isolated from Indian Grid) 400kV GODDA_TPS-RAHANPUR (B'DESH) D/C -790 -708 -754 -18.09		<u> </u>						
ER 400kV DHALKEBAR-MUZAFFARPUR 1&2 437 197 352 8.45 ER BHERAMARA B/B HVDC (B'DESH) -934 -932 -933 -22.38 BANGLADESH ER (Isolated from Indian Grid) 400kV GODDA_TPS-RAHANPUR (B'DESH) D/C -790 -708 -754 -18.09		NR	132kV MAHENDRANAG	AR-TANAKPUR(NHPC)	-44	0	4	0.10
ER 400kV DHALKEBAR-MUZAFFARPUR 1&2 437 197 352 8.45 ER BHERAMARA B/B HVDC (B'DESH) -934 -932 -933 -22.38 BANGLADESH ER (Isolated from Indian Grid) 400kV GODDA_TPS-RAHANPUR (B'DESH) D/C -790 -708 -754 -18.09								
BANGLADESH ER BHERAMARA B/B HVDC (B'DESH) -934 -932 -933 -22.38 BANGLADESH ER (Isolated from Indian Grid) 400kV GODDA_TPS-RAHANPUR (B'DESH) D/C -790 -708 -754 -18.09	NEPAL	ER	NEPAL IMPORT (FROM	(BIHAR)	0	0	0	0.00
BANGLADESH ER BHERAMARA B/B HVDC (B'DESH) -934 -932 -933 -22.38 BANGLADESH ER (Isolated from Indian Grid) 400kV GODDA_TPS-RAHANPUR (B'DESH) D/C -790 -708 -754 -18.09			+					
BANGLADESH ER (Isolated from Indian Grid) 400kV GODDA_TPS-RAHANPUR (B'DESH) D/C -790 -708 -754 -18.09	1	ER	400kV DHALKEBAR-MUZAFFARPUR 1&2		437	197	352	8.45
BANGLADESH ER (Isolated from Indian Grid) 400kV GODDA_TPS-RAHANPUR (B'DESH) D/C -790 -708 -754 -18.09			The second secon					
BANGLADESH (Isolated from Indian Grid) 400kV GODDA_TPS-RAHANPUR (B'DESH) D/C -790 -708 -754 -18.09			BHERAMARA B/B HVDC (B'DESH)				i company and a second a second and a second a second and	
BANGLADESH (Isolated from Indian Grid) 400kV GODDA_TPS-RAHANPUR (B'DESH) D/C -790 -708 -754 -18.09		ER	BHERAMARA B/B HVD	C (B'DESH)	-934	-932	-933	-22.38
			BHERAMARA B/B HVD	C (B'DESH)	-934	-932	-933	-22.38
NER 132kV COMILLA-SURAJMANI NAGAR 1&2 -142 0 -119 -2.86	BANGLADESH	ER						
	BANGLADESH	ER						
	BANGLADESH	ER (Isolated from Indian Grid)	400kV GODDA_TPS-RAF	HANPUR (B'DESH) D/C	-790	-708	-754	-18.09