

## National Load Despatch Centre राष्ट्रीय भार प्रेषण केंद्र

## POWER SYSTEM OPERATION CORPORATION LIMITED पॉवर सिस्टम ऑपरेशन कारपोरेशन 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

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दिनांक: 24<sup>th</sup> Apr 2021

Ref: POSOCO/NLDC/SO/Daily PSP Report

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 23.04.2021.

महोदय/Dear Sir,

आई॰ई॰जी॰सी॰-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 23-अप्रैल-2021 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 23<sup>rd</sup> April 2021, is available at the NLDC website.

धन्यवाद.

## पॉवर सिस्टम ऑपरेशन कारपोरेशन लिमिटेड राष्ट्रीय भार प्रेषण केंद्र, नई दिल्ली



Report for previous day

A Power Supply Position at All India and Regional level Date of Reporting:

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)	46028	51267	42094	22661	2768	164818
Peak Shortage (MW)	0	0	0	0	20	20
Energy Met (MU)	945	1309	1033	474	48	3810
Hydro Gen (MU)	141	45	71	41	11	309
Wind Gen (MU)	37	96	45	-	-	178
Solar Gen (MU)*	40.59	38.41	94.16	5.13	0.23	179
Energy Shortage (MU)	6.75	0.00	0.00	0.00	0.62	7.37
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	46362	57191	48080	23048	3012	166210
Time Of Maximum Demand Met (From NLDC SCADA)	19:45	11:23	11:58	19:41	18:40	22:26
B. Frequency Profile (%)						
D	. 40.7	40.7 40.0	40.0 40.0	. 40.0	40.0 50.05	. 50.05

Region All India

		Max.Demand	Shortage during	Energy Met	Drawal	OD(+)/UD(-)	Max OD	Energy
Region	States	Met during the	maximum	(MU)	Schedule	(MU)	(MW)	Shortag
		dav(MW)	Demand(MW)	(MC)	(MU)	` -/	(1111)	(MU)
	Punjab	5434	0	103.6	60.9	-3.4	117	0.00
	Haryana	6302	0	123.8	95.4	-1.0	299	0.00
	Rajasthan	10853	0	214.8	48.2	0.3	441	0.35
	Delhi	2909	0	64.0	48.7	-2.1	13	0.00
NR	UP	17329	0	322.1	110.6	-5.9	488	0.00
	Uttarakhand	1683	0	35.0	18.9	-1.4	82	0.00
	HP	1463	0	27.2	13.3	-0.9	54	0.00
	J&K(UT) & Ladakh(UT)	2671	0	51.6	39.3	1.1	359	6.40
	Chandigarh	172	0	3.2	3.4	-0.2	12	0.00
	Chhattisgarh	4331	0	104.2	41.3	-0.6	177	0.00
	Gujarat	17781	0	385.8	110.5	-1.4	761	0.00
	MP	10498	0	229.9	118.9	-1.0	395	0.00
WR	Maharashtra	23794	0	534.1	180.6	-1.4	609	0.00
	Goa	555	0	13.0	12.1	0.5	20	0.00
	DD	312	0	7.0	7.0	0.0	20	0.00
	DNH	757	0	17.8	17.9	-0.1	40	0.00
	AMNSIL	817	0	17.0	2.4	0.3	351	0.00
	Andhra Pradesh	10011	0	193.0	91.4	0.6	918	0.00
	Telangana	8811	0	181.8	76.5	0.8	588	0.00
SR	Karnataka	11080	0	210.6	61.6	0.1	505	0.00
	Kerala	3987	0	81.4	58.1	0.5	214	0.00
	Tamil Nadu	16216	0	357.1	247.1	-1.7	522	0.00
	Puducherry	436	0	9.5	9.6	-0.2	28	0.00
	Bihar	5493	0	101.7	95.2	-1.7	213	0.00
	DVC	3054	0	70.4	-51.6	-0.3	547	0.00
	Jharkhand	1582	0	26.4	22.4	-4.1	240	0.00
ER	Odisha	5266	0	113.0	54.6	0.4	442	0.00
	West Bengal	8083	0	161.6	28.9	-0.1	323	0.00
	Sikkim	72	0	1.0	1.5	-0.5	0	0.00
NER	Arunachal Pradesh	135	1	2.0	2.0	0.0	81	0.01
	Assam	1735	0	30.3	25.3	0.2	152	0.00
	Manipur	200	1	2.4	2.6	-0.1	34	0.01
	Meghalaya	298	0	4.8	2.2	0.4	98	0.58
	Mizoram	114	1	1.6	1.5	0.1	20	0.01
	Nagaland	137	1	2.1	1.7	0.3	39	0.01
	Tuinuma	301	0	5.1	5.7	0.7	200	0.00

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

	Bhutan	Nepal	Bangladesh
Actual (MU)	7.0	-15.8	-23.8
Day Peak (MW)	419.0	-790.3	-1084.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	145.8	-268.4	177.3	-73.3	18.6	0.0
Actual(MU)	124.5	-278.9	195.7	-73.4	21.5	-10.6
O/D/U/D(MU)	-21.3	-10.4	18.4	-0.1	2.8	-10.6

F. Generation Outage(MW)

r. Generation Outage(MW)							
	NR	WR	SR	ER	NER	TOTAL	% Share
Central Sector	3868	13153	8402	1148	1370	27941	42
State Sector	12005	12798	8275	4875	77	38030	58
Total	15873	25951	16677	6023	1447	65971	100

G. Sourcewise generation (MU)

	NR	WR	SR	ER	NER	All India	% Share
Coal	511	1359	522	543	9	2944	75
Lignite	20	11	40	0	0	70	2
Hydro	141	45	71	41	11	309	8
Nuclear	28	20	43	0	0	91	2
Gas, Naptha & Diesel	35	37	11	0	13	97	2
RES (Wind, Solar, Biomass & Others)	104	135	168	5	0	413	11
Total	839	1608	854	590	32	3923	100
Share of RES in total generation (%)	12.40	8.41	19.68	0.87	0.71	10.52	
Share of Non-fossil fuel (Hydro, Nuclear and RES) in total generation(%)	32.46	12.48	32.98	7.86	34.43	20.70	

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.069
Based on State Max Demands	1.111

Dissert on State Max Demantos

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

\*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)

Second   Company   Compa								Import=(+ve) /Export Date of Reporting:	24-Apr-2021
		Voltage Level	Line Details	No. of Circuit	Max Import (MW)	Max Export (MW)	Import (MU)		
1		rt/Export of ER (							
1	1			2	0	0			010
1				2					
0				ĩ					
1				1					
B				1					
10	8	400 kV		2				1.6	
10								9.8	
10				2					
10   22   92   9.0				2					
15   134	13	220 kV	PUSAULI-SAHUPURI	1	22	92	0.0	1.1	-1.1
10   1514   SAMMANASAMETREE   1   0   0   00   00   00   00   00				1					
17   1214   SARMANANACHINDATE   1   0   0   0   0   0   0   0   0   0				i					
				î		0			
1	T	mt/E-mant of ED (	Wat WD)			ER-NR	0.4	41.2	-40.8
1				1 4	1809	0	36.6	0.0	36.6
1	-								
1									
S									
Color   Colo									
Import   State   Sta		220 kV		1					
Import   State   Sta						0			
1   HYDEC   HYDECKE-CAPUWAK & BR   2   0   577   0.0   11.1   .11.1   .11.2   .11.2   .11.2   .12.2	<b>—</b>			•					
1   NYDC   ALCHER KOLAS BYOLE   2   0   1900   0.0   456   456   456	Impo				_	525	0.0	11.2	11.2
1	2								
1   00   00   17   17   17   17   17	3	765 kV	ANGUL-SRIKAKULAM	2	0	3057	0.0		
The property of the type of type of the type of type		400 kV	TALCHER-I/C	2	348		0.0	1.7	-1.7
	5	220 kV	BALIMELA-UPPER-SILERRU	1	1				
1	Impo	rt/Export of ER (	With NER)			EK-9K	0.0	117.0	-117.0
3   2004   ALPPERDIAR-SALAKATI   2   0   122   120	1	400 kV	BINAGURI-BONGAIGAON						
Description of NER (Win NE)				2					
ImportSpart of NER (With NR)	3	220 KV	ALH URDUAR-SALAKATI	. 4					
Import/Export of WR (With NE)	Impo								
ImportExport of WR (Winn NR)	1	HVDC	BISWANATH CHARIALI-AGRA	2	495				
HUDC   CHAMPA-KURKSHIPTEA   2   0   0   0.0   27.5   27.	Impo	rt/Export of WR	(With NR)			NEK-NK	10.5	0.0	10.5
HIND		HVDC	CHAMPA-KURUKSHETRA	2	0	0	0.0	27.5	-27.5
1	2	HVDC	VINDHYACHAL B/B	-					
S   P65   PFAGE-GWALIOR   2   0   1262   0.0   22.7   -22.7   -22.7   -22.6   -26.6   -76.5   V   MARLIFE, COM   2   -70.2   7.46   0.0   22.4   -22.6   -22						1268			
6						1262		22.7	
S									
0									
10				1					
11   490 & V   ZERDA SHINNAL				1					
13			ZERDA -BHINMAL	1	426		7.9	0.0	7.9
14   220 kV   BHANPURA-RANPUR   1   31   65   0.1   0.5   0.5   0.0     15   220 kV   BHANPURA-MORAK   1   0   30   0.3   0.1   0.2     16   220 kV   BHANPURA-MORAK   1   0.5   1   0.3   0.1   0.2     17   220 kV   MALANPURA LIRATIVA   1   0.5   1   0.3   0.1   0.2     18   192 kV   MALANPURA LIRATIVA   1   0.5   0   0.0   0.0   0.0     18   192 kV   MALANPURA LIRATIVA   1   0.5   0   0.0   0.0   0.0     18   192 kV   MALANPURA LIRATIVA   1   0.5   0   0   0.0   0.0     19   19   19   19   19   19   19									
15   220 kV   BHAPFURA-MORAK			BHANPURA-RANPUR						
17   220 kV   MALANPUR-AURAIVA				1					
18   132 kV   GWALIOR.SAWAMADROPUR   1   0   0   0.0   0.0   0.0   0.0   0.0     19   132 kV   RAJGHAT-LAITPUR   2   0   0   0.0   0.0   0.0   0.0     10   10   10   10   10   10   10									
19   132 kV   RAJGHAT-LALITPUR   2   0   0   0.0   0.0   0.0   0.0									
Import/Export of WR (With SR)									
1 HVDC						WR-NR			
2				1	1 0	016	0.0	12.2	12.2
3   765 kV   SOLAPUR-RAICHUR   2   0   2245   0.0   34.3   34.3   34.4   765 kV   WARDHANIZAMABAD   2   0   2555   0.0   45.8   445.8   5   400 kV   KOLHAPUR-CHIKODI   2   584   91   5.3   0.0   0				2					
S	3	765 kV	SOLAPUR-RAICHUR	2	0	2245	0.0	34.3	-34.3
Color   Colo									
7   220 kV   PONDA-AMBEWADI   1   0   0   0.0   0.0   0.0   0.0   0.0									
STATE	7	220 kV	PONDA-AMBEWADI						
State   Region   Line Name   Max (MW)   Min (MW)   Avg (MW)   Energy Exchange (MI)	8			1		90	1.8	0.0	1.8
State   Region   Line Name   Max (MW)   Min (MW)   Avg (MW)   Energy Exchange (MII)	<u> </u>				NI PROSTA	•	7.1	131.2	-124.1
ER	_	1						1	Fnergy Evelopes
ER		State	Region	Line	Name	Max (MW)	Min (MW)	Avg (MW)	(MII)
MANGDECHU HEP 4*180MW,   Glob Y ATLA-BINAGURI   124 (& 4006V   120   89   94   2.3   120   89   94   2.3   120									
ER			ER	i.e. ALIPURDUAR RI	ECEIPT (from	185	0	142	3.4
ER				MANGDECHU HEP 400kV TALA-BINAG	4°180MW) URI 1,2,4 (& 400kV			<del> </del>	
BHUTAN   ER			ER	MALBASE - BINAGU	JRI) i.e. BINAGURI	120	89	94	2.3
BHUTAN   ER				RECEIPT (from TAL	A HEP (6*170MW)			<b> </b>	
NER   132KV-GEYLEGPHU - SALAKATI   36   5   -13   -0.3     NER   132KV Motanga-Rangia   24   10   -17   -0.4     NR   132KV-TANAKPUR(NI) -   -80   0   -71   -1.7     ER   400KV-MUZAFFARPUR - DHALKEBAR   -401   -265   -338   -8.1     NEPAL   ER   132KV-BHAR - NEPAL   -309   -136   -248   -6.0     ER   BHERAMARA HVDC(BANGLADESH)   -864   -849   -861   -20.7     BANGLADESH   NER   132KV-SURAJMANI NAGAR -   -137   0   -91   -2.2     NEE   132KV-SURAJMANI NAGAR -   -137   0   -137   -137   0   -137     NEE   132KV-SURAJMANI NAGAR -   -137   0   -137   -137   0   -137     NEE   132KV-SURAJMANI NAGAR -   -137   0   -137   -13		BHUTAN	ER			53	0	25	0.6
NER   132kV Motanga-Rangia   24   10   -17   -0.4						-5	,		3.0
NER   132kV Motanga-Rangia   24   10   -17   -0.4			NED	132КУ-СЕУІ ЕСРИ	J - SALAKATI	36	5	.13	-n 3
NR   132KV-TANAKPUR(NH) -   -80   0   -71   -1.7			NER	JETEGI H		30		-13	-03
NR   132KV-TANAKPUR(NH) -   -80   0   -71   -1.7		NIED		1221-3/ 14-4	do				-
NR		NER I		132KV Motanga-Rang	на	24	10	-17	-0.4
NR				132KV-TANAKPIID	NH) -				
NEPAL   ER   DC   -401   -265   -338   -8.1			NR			-80	0	-71	-1.7
NEPAL   ER   DC   -401   -265   -338   -8.1				400KV-M17 A FE A DI	PIID - DHAI PEDAD			<b>†</b>	
NEPAL   ER   132KV-BIHAR - NEPAL   -309   -136   -248   -6.0			ER		OK - DHALKEDAK	-401	-265	-338	-8.1
ER   BHERAMARA HVDC(BANGLADESH)				DC .				<del> </del>	
BANGLADESH NER 132KV-SURAJMANI NAGAR - 137 0 -91 -2.2		NEPAL	ER	132KV-BIHAR - NEPAL		-309	-136	-248	-6.0
BANGLADESH NER 132KV-SURAJMANI NAGAR - 137 0 -91 -2.2								<del>                                     </del>	
BANGLADESH NER 132KV-SURAJMANI NAGAR - 137 0 -91 -2.2			ER	BHERAMARA HVD	C(BANGLADESH)	-864	-849	-861	-20.7
NEK   COMILLA(BANGLADESH)-1   13/ 0   -91   -2.2					-				
COMILLA(BANGLADESH)-1  132KV-SURAJMANI NAGAR - 63 0 20 0.0	R	ANGLADESH	NER			137	0	-91	-2.2
			- ,1/44	COMILLA(BANGLA	DESH)-1	-5.	,		
COMILLA(BANGLADESH)-2 0.5 U -39 -0.9			NED			63	0	-30	-n a
	L		NER	COMILLA(BANGLA	DESH)-2	63		-37	-0.7