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

Ref: POSOCO/NLDC/SO/Daily PSP Report

दिनांक: 24th Mar 2021

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
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 23.03.2021.

महोदय/Dear Sir,

आई०ई०जी०सी०-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 23-मार्च-2021 की अखिल भारतीय प्रणाली की दैनिक ग्रिड निष्पादन रिपोर्ट रा०भा०प्रे०के० 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 23rd March 2021, is available at the NLDC website.

धन्यवाद,

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

Report for previous day **Date of Reporting:** **24-Mar-2021**

A. Power Supply Position at All India and Regional level

	NR	WR	SR	ER	NER	TOTAL
Demand Met during Evening Peak hrs(MW) (at 19:00 hrs; from RLDCs)	42813	53374	47187	23262	2820	169456
Peak Shortage (MW)	400	0	0	0	21	421
Energy Met (MU)	898	1273	1209	497	48	3925
Hydro Gen (MU)	112	33	96	38	9	287
Wind Gen (MU)	12	49	34	-	-	95
Solar Gen (MU)*	46.96	34.38	113.61	4.48	0.18	200
Energy Shortage (MU)	7.70	0.03	0.00	0.00	0.86	8.59
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	44473	56636	58029	23354	3034	176165
Time Of Maximum Demand Met (From NLDC SCADA)	19:19	15:25	10:28	19:02	18:50	10:27

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	0.028	0.00	0.00	1.26	1.26	71.05	27.69

C. Power Supply Position in States

Region	States	Max.Demand Met during the day(MW)	Shortage during maximum Demand(MW)	Energy Met (MU)	Drawal Schedule (MU)	OD(+)/UD(-) (MU)	Max OD (MW)	Energy Shortage (MU)
NR	Punjab	5370	0	99.7	50.8	-3.3	244	0.00
	Haryana	5419	0	114.7	70.9	-0.3	295	0.00
	Rajasthan	9832	0	196.3	37.4	-2.2	872	0.00
	Delhi	3591	0	71.2	55.7	-1.4	76	0.00
	UP	15087	0	298.5	116.3	-3.4	415	0.10
	Uttarakhand	1865	0	37.8	23.8	0.4	151	0.00
	HP	1618	0	30.6	24.3	0.1	250	0.00
	J&K(UT) & Ladakh(UT)	2496	400	45.9	36.2	0.9	350	7.60
	Chandigarh	181	0	3.3	3.4	-0.1	13	0.00
WR	Chhattisgarh	4558	0	107.3	55.8	-0.1	219	0.00
	Gujarat	18185	0	397.3	172.4	3.8	1168	0.00
	MP	10670	0	211.4	106.4	-3.9	516	0.00
	Maharashtra	22777	0	499.1	150.0	-1.6	768	0.00
	Goa	557	0	12.0	11.6	-0.1	138	0.03
	DD	341	0	7.8	7.6	0.2	188	0.00
	DNH	863	0	19.5	19.1	0.4	319	0.00
	AMNSIL	808	0	18.2	1.2	0.2	285	0.00
SR	Andhra Pradesh	11047	0	217.2	93.6	1.2	551	0.00
	Telangana	13307	0	275.0	150.8	0.4	754	0.00
	Karnataka	14076	0	267.6	113.0	3.3	1102	0.00
	Kerala	4110	0	86.4	58.2	1.2	361	0.00
	Tamil Nadu	16147	0	355.0	234.9	2.5	697	0.00
	Puducherry	402	0	8.3	8.7	-0.3	19	0.00
ER	Bihar	5485	0	104.6	89.9	4.8	439	0.00
	DVC	3270	0	70.9	-50.7	0.8	335	0.00
	Jharkhand	1556	0	28.3	20.4	-0.7	239	0.00
	Odisha	5136	0	109.4	42.2	2.8	674	0.00
	West Bengal	8504	0	183.0	42.3	-0.3	362	0.00
	Sikkim	94	0	1.2	1.4	-0.2	50	0.00
NER	Arunachal Pradesh	128	1	2.3	2.3	-0.1	14	0.01
	Assam	1718	10	29.6	24.7	0.2	93	0.30
	Manipur	206	1	2.4	2.7	-0.3	24	0.01
	Meghalaya	336	0	5.3	3.1	0.6	25	0.52
	Mizoram	116	1	1.6	1.5	-0.1	18	0.01
	Nagaland	147	1	2.3	2.1	0.1	22	0.01
	Tripura	278	0	4.4	3.7	0.2	56	0.00

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

	Bhutan	Nepal	Bangladesh
Actual (MU)	3.2	-16.3	-21.1
Day Peak (MW)	274.0	-802.0	-913.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	121.9	-310.3	248.3	-65.4	5.5	0.0
Actual(MU)	99.5	-310.0	254.9	-56.6	5.6	-6.7
O/D/U/D(MU)	-22.4	0.3	6.6	8.8	0.1	-6.7

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL	% Share
Central Sector	4821	12698	6802	3198	1072	28591	40
State Sector	14627	15072	7919	4587	11	42216	60
Total	19448	27770	14721	7785	1083	70806	100

G. Sourcewise generation (MU)

	NR	WR	SR	ER	NER	All India	% Share
Coal	544	1390	604	551	16	3105	77
Lignite	18	11	32	0	0	61	2
Hydro	112	33	96	38	9	287	7
Nuclear	27	18	41	0	0	86	2
Gas, Naptha & Diesel	30	53	16	0	24	122	3
RES (Wind, Solar, Biomass & Others)	89	84	181	5	0	358	9
Total	819	1588	971	593	49	4020	100

Share of RES in total generation (%)	10.84	5.29	18.63	0.76	0.37	8.92
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	27.76	8.49	32.77	7.09	18.66	18.20

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.053
Based on State Max Demands	1.080

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.**

Executive Director-NLDC

INTER-REGIONAL EXCHANGES

Import=(+ve) /Export =(-ve) for NET (MU)

Date of Reporting: 24-Mar-2021

Sl No	Voltage Level	Line Details	No. of Circuit	Max Import (MW)	Max Export (MW)	Import (MU)	Export (MU)	NET (MU)
Import/Export of ER (With NR)								
1	HVDC	ALIPURDUAR-AGRA	2	0	0	0.0	0.0	0.0
2	HVDC	PUSAULI B/B	-	0	248	0.0	5.8	-5.8
3	765 kV	GAYA-VARANASI	2	104	392	0.0	3.5	-3.5
4	765 kV	SASARAM-FATEHPUR	1	176	128	0.0	0.1	-0.1
5	765 kV	GAYA-BALIA	1	0	349	0.0	4.8	-4.8
6	400 kV	PUSAULI-VARANASI	1	0	263	0.0	5.1	-5.1
7	400 kV	PUSAULI -ALLAHABAD	1	6	67	0.0	0.7	-0.7
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	348	381	0.0	2.3	-2.3
9	400 kV	PATNA-BALIA	4	0	941	0.0	15.6	-15.6
10	400 kV	BIHARSHARIFF-BALIA	2	288	129	1.1	0.0	1.1
11	400 kV	MOTIHARI-GORAKHPUR	2	56	255	7.0	6.5	0.5
12	400 kV	BIHARSHARIFF-VARANASI	2	72	125	0.0	0.7	-0.7
13	220 kV	PUSAULI-SAHUPURI	1	35	190	0.0	1.6	-1.6
14	132 kV	SONE NAGAR-RIHAND	1	0	0	0.0	0.0	0.0
15	132 kV	GARWAH-RIHAND	1	20	0	0.3	0.0	0.3
16	132 kV	KARMANASA-SAHUPURI	1	0	0	0.0	0.0	0.0
17	132 kV	KARMANASA-CHANDAULI	1	0	0	0.0	0.0	0.0
					ER-NR	8.4	46.5	-38.2
Import/Export of ER (With WR)								
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	2347	0	42.3	0.0	42.3
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	885	200	6.7	0.0	6.7
3	765 kV	JHARSUGUDA-DURG	2	439	149	1.7	0.0	1.7
4	400 kV	JHARSUGUDA-RAIGARH	4	293	121	1.9	0.0	1.9
5	400 kV	RANCHI-SIPAT	2	217	119	0.9	0.0	0.9
6	220 kV	BUDHIPADAR-RAIGARH	1	0	124	0.0	1.8	-1.8
7	220 kV	BUDHIPADAR-KORBA	2	187	0	3.1	0.0	3.1
					ER-WR	56.6	1.8	54.7
Import/Export of ER (With SR)								
1	HVDC	JEYPORE-GAZUWAKA B/B	2	0	659	0.0	16.0	-16.0
2	HVDC	TALCHER-KOLAR BIPOLE	2	0	2479	0.0	49.3	-49.3
3	765 kV	ANGUL-SRIKAKULAM	2	0	3088	0.0	60.0	-60.0
4	400 kV	TALCHER-I/C	2	410	683	0.0	4.3	-4.3
5	220 kV	BALIMELA-UPPER-SILERRU	1	1	0	0.0	0.0	0.0
					ER-SR	0.0	125.2	-125.2
Import/Export of ER (With NER)								
1	400 kV	BINAGURI-BONGAIGAON	2	220	245	0.2	0.0	0.2
2	400 kV	ALIPURDUAR-BONGAIGAON	2	385	343	1.0	0.0	1.0
3	220 kV	ALIPURDUAR-SALAKATI	2	39	32	0.1	0.0	0.1
					ER-NER	1.3	0.0	1.3
Import/Export of NER (With NR)								
1	HVDC	BISWANATH CHARIALI-AGRA	2	466	0	7.2	0.0	7.2
					NER-NR	7.2	0.0	7.2
Import/Export of WR (With NR)								
1	HVDC	CHAMPA-KURUKSHETRA	2	0	1014	0.0	29.7	-29.7
2	HVDC	VINDHYACHAL B/B	-	240	0	6.0	0.0	6.0
3	HVDC	MUNDRA-MOHINDERGARH	2	0	983	0.0	24.2	-24.2
4	765 kV	GWALIOR-AGRA	2	0	2215	0.0	35.4	-35.4
5	765 kV	PHAGI-GWALIOR	2	0	1161	0.0	18.2	-18.2
6	765 kV	JABALPUR-ORAI	2	637	626	0.0	18.3	-18.3
7	765 kV	GWALIOR-ORAI	1	608	0	9.7	0.0	9.7
8	765 kV	SATNA-ORAI	1	0	1332	0.0	26.9	-26.9
9	765 kV	CHITORGARH-BANASKANTHA	2	1717	0	24.5	0.0	24.5
10	400 kV	ZERDA-KANKROLI	1	428	0	7.0	0.0	7.0
11	400 kV	ZERDA -BHINMAL	1	525	0	8.0	0.0	8.0
12	400 kV	VINDHYACHAL -RIHAND	1	965	0	21.8	0.0	21.8
13	400 kV	RAPP-SHUJALPUR	2	163	251	0.0	0.6	-0.6
14	220 kV	BHANPURA-RANPUR	1	47	57	0.1	0.5	-0.4
15	220 kV	BHANPURA-MORAK	1	0	30	0.3	0.2	0.1
16	220 kV	MEHGAON-AURAIYA	1	96	15	0.4	0.0	0.4
17	220 kV	MALANPUR-AURAIYA	1	69	22	0.7	0.1	0.7
18	132 kV	GWALIOR-SAWAI MADHOPUR	1	0	0	0.0	0.0	0.0
19	132 kV	RAJGHAT-LALITPUR	2	0	0	0.0	0.0	0.0
					WR-NR	78.5	154.2	-75.7
Import/Export of WR (With SR)								
1	HVDC	BHADRAWATI B/B	-	0	1023	0.0	22.9	-22.9
2	HVDC	RAIGARH-PUGALUR	2	0	1517	0.0	62.4	-62.4
3	765 kV	SOLAPUR-RAICHUR	2	0	2782	0.0	44.7	-44.7
4	765 kV	WARDHA-NIZAMABAD	2	0	3454	0.0	64.5	-64.5
5	400 kV	KOLHAPUR-KUDGI	2	1099	9	13.1	0.0	13.1
6	220 kV	KOLHAPUR-CHIKODI	2	0	0	0.0	0.0	0.0
7	220 kV	PONDA-AMBEWADI	1	0	0	0.0	0.0	0.0
8	220 kV	XELDEM-AMBEWADI	1	0	115	2.1	0.0	2.1
					WR-SR	15.2	194.4	-179.2

INTERNATIONAL EXCHANGES

State	Region	Line Name	Max (MW)	Min (MW)	Avg (MW)	Energy Exchange (MU)
BHUTAN	ER	400kV MANGDECHHU-ALIPURDUAR 1&2 i.e. ALIPURDUAR RECEIPT (from MANGDECHU HEP 4*180MW)	178	93	111	2.7
	ER	400kV TALA-BINAGURI 1,2,4 (& 400kV MALBASE - BINAGURI) i.e. BINAGURI RECEIPT (from TALA HEP (6*170MW)	76	0	42	1.0
	ER	220kV CHUKHA-BIRPARA 1&2 (& 220kV MALBASE - BIRPARA) i.e. BIRPARA RECEIPT (from CHUKHA HEP 4*84MW)	13	6	13	-0.5
	NER	132KV-GEYLEGPHU - SALAKATI	25	1	12	0.3
	NER	132kV Motanga-Rangia	-18	-1	-10	-0.2
NEPAL	NR	132KV-TANAKPUR(NH) - MAHENDRANAGAR(PG)	-85	0	-72	-1.7
	ER	400KV-MUZAFFARPUR - DHALKEBAR DC	-359	-244	-312	-7.5
	ER	132KV-BIHAR - NEPAL	-358	-148	-295	-7.1
BANGLADESH	ER	BHERAMARA HVDC(BANGLADESH)	-728	0	-722	-17.3
	NER	132KV-SURAJMANI NAGAR - COMILLA(BANGLADESH)-1	93	0	-78	-1.9
	NER	132KV-SURAJMANI NAGAR - COMILLA(BANGLADESH)-2	92	0	-78	-1.9