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: 20th March 2022

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 19.03.2022.

महोदय/Dear Sir,

आई०ई०जी०सी०-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 19-मार्च -2022 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 19th March 2022, 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:** **20-Mar-2022**

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)	48519	56581	44674	21614	2762	174150
Peak Shortage (MW)	250	0	0	266	0	516
Energy Met (MU)	1055	1353	1185	459	49	4100
Hydro Gen (MU)	195	36	81	44	11	368
Wind Gen (MU)	32	91	80	-	-	203
Solar Gen (MU)*	97.01	47.27	103.68	5.45	0.35	254
Energy Shortage (MU)	4.65	0.00	0.00	1.49	0.00	6.14
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	51344	62060	58110	22192	2791	189354
Time Of Maximum Demand Met (From NLDC SCADA)	19:21	11:27	11:47	19:26	18:17	11:47

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	0.031	0.00	0.00	2.84	2.84	76.82	20.34

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	7563	0	148.8	63.1	0.1	256	0.00
	Haryana	6409	0	122.6	84.3	0.1	255	0.00
	Rajasthan	12552	0	250.6	41.4	-3.1	271	0.00
	Delhi	3387	0	70.0	57.6	-0.7	169	0.00
	UP	19220	0	358.8	150.7	-0.5	693	0.00
	Uttarakhand	1667	0	32.0	14.1	-0.1	88	0.00
	HP	1232	0	23.3	6.5	-1.0	250	0.00
	J&K(UT) & Ladakh(UT)	2478	300	45.6	32.3	-0.7	225	4.65
	Chandigarh	203	0	3.7	4.5	-0.8	6	0.00
WR	Chhattisgarh	4525	0	104.9	49.2	-0.5	427	0.00
	Gujarat	17294	0	363.4	188.4	-1.8	472	0.00
	MP	11720	0	257.6	152.3	-0.7	458	0.00
	Maharashtra	26720	0	574.6	198.7	-4.3	577	0.00
	Goa	657	0	13.6	13.3	0.0	91	0.00
	DD	297	0	5.8	5.9	-0.1	23	0.00
	DNH	783	0	16.0	16.0	0.0	51	0.00
	AMNSIL	786	0	17.1	10.4	-0.3	274	0.00
SR	Andhra Pradesh	11431	0	226.2	110.9	0.3	579	0.00
	Telangana	13116	0	257.3	138.4	-1.3	916	0.00
	Karnataka	14216	0	263.9	95.5	-0.1	737	0.00
	Kerala	3998	0	84.8	62.3	-0.7	207	0.00
	Tamil Nadu	15912	0	344.5	221.3	-2.7	641	0.00
	Puducherry	381	0	8.1	8.5	-0.5	21	0.00
ER	Bihar	5478	0	105.7	100.6	-0.9	266	0.89
	DVC	3210	0	67.7	-49.4	-0.9	192	0.00
	Jharkhand	1606	54	32.5	24.1	-0.2	162	0.60
	Odisha	5104	0	107.4	44.0	-2.9	389	0.00
	West Bengal	7313	0	144.1	20.0	-1.9	274	0.00
	Sikkim	90	0	1.4	1.5	-0.2	17	0.00
NER	Arunachal Pradesh	112	0	2.3	2.3	-0.1	18	0.00
	Assam	1672	0	28.8	23.4	0.0	101	0.00
	Manipur	191	0	2.6	2.6	0.0	43	0.00
	Meghalaya	349	0	6.3	5.6	-0.1	41	0.00
	Mizoram	119	0	1.6	1.4	-0.3	6	0.00
	Nagaland	149	0	2.5	2.3	0.2	18	0.00
	Tripura	259	0	4.7	3.7	-0.2	23	0.00

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

	Bhutan	Nepal	Bangladesh
Actual (MU)	11.2	-4.9	-20.5
Day Peak (MW)	613.0	-544.0	-888.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	67.5	-174.7	237.3	-135.3	5.2	0.0
Actual(MU)	51.7	-154.4	240.7	-140.2	-1.1	-3.4
O/D/U/D(MU)	-15.8	20.2	3.4	-4.9	-6.3	-3.4

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL	% Share
Central Sector	5131	12330	6362	2781	535	27139	41
State Sector	11974	14713	9513	2468	11	38679	59
Total	17106	27043	15875	5249	546	65818	100

G. Sourcewise generation (MU)

	NR	WR	SR	ER	NER	All India	% Share
Coal	588	1305	555	585	13	3046	72
Lignite	28	11	35	0	0	74	2
Hydro	195	36	81	44	11	368	9
Nuclear	32	33	70	0	0	135	3
Gas, Naptha & Diesel	14	18	9	0	31	72	2
RES (Wind, Solar, Biomass & Others)	163	139	212	5	0	520	12
Total	1019	1542	962	635	55	4214	100

Share of RES in total generation (%)	15.97	9.01	22.08	0.86	0.63	12.34
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	38.17	13.51	37.82	7.86	19.71	24.26

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.038
Based on State Max Demands	1.068

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: 20-Mar-2022

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	301	0.0	4.2	-4.2
2	HVDC	PUSAULI B/B	-	4	0	0.0	0.0	0.0
3	765 kV	GAYA-VARANASI	2	100	299	0.0	1.4	-1.4
4	765 kV	SASARAM-FATEHPUR	1	0	223	0.0	3.7	-3.7
5	765 kV	GAYA-BALIA	1	0	408	0.0	6.2	-6.2
6	400 kV	PUSAULI-VARANASI	1	27	33	0.1	0.0	0.1
7	400 kV	PUSAULI -ALLAHABAD	1	88	54	0.7	0.0	0.7
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	237	567	0.0	3.7	-3.7
9	400 kV	PATNA-BALIA	4	0	611	0.0	11.1	-11.1
10	400 kV	BIHARSHARIFF-BALIA	2	134	222	0.0	1.2	-1.2
11	400 kV	MOTIHARI-GORAKHPUR	2	222	65	1.9	0.0	1.9
12	400 kV	BIHARSHARIFF-VARANASI	2	73	174	0.0	0.5	-0.5
13	220 kV	SAHUPURI-KARAMNASA	1	21	117	0.0	1.1	-1.1
14	132 kV	NAGAR UNTARI-RIHAND	1	0	0	0.1	0.0	0.1
15	132 kV	GARWAH-RIHAND	1	25	0	0.6	0.0	0.6
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	3.4	33.1	-29.7
Import/Export of ER (With WR)								
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	1036	0	12.0	0.0	12.0
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	733	541	0.4	0.0	0.4
3	765 kV	JHARSUGUDA-DURG	2	0	648	0.0	10.9	-10.9
4	400 kV	JHARSUGUDA-RAIGARH	4	0	469	0.0	7.3	-7.3
5	400 kV	RANCHI-SIPAT	2	132	187	0.0	1.1	-1.1
6	220 kV	BUDHIPADAR-RAIGARH	1	0	115	0.0	1.7	-1.7
7	220 kV	BUDHIPADAR-KORBA	2	82	26	0.7	0.0	0.7
					ER-WR	13.1	21.1	-8.0
Import/Export of ER (With SR)								
1	HVDC	JEYPORE-GAZUWAKA B/B	2	0	710	0.0	16.2	-16.2
2	HVDC	TALCHER-KOLAR BIPOLE	2	0	2475	0.0	48.7	-48.7
3	765 kV	ANGUL-SRIKAKULAM	2	0	3237	0.0	59.1	-59.1
4	400 kV	TALCHER-I/C	2	0	634	0.0	4.7	-4.7
5	220 kV	BALIMELA-UPPER-SILERRU	1	1	0	0.0	0.0	0.0
					ER-SR	0.0	124.0	-124.0
Import/Export of ER (With NER)								
1	400 kV	BINAGURI-BONGAIGAON	2	27	273	0.0	4.0	-4.0
2	400 kV	ALIPURDUAR-BONGAIGAON	2	0	378	0.0	5.0	-5.0
3	220 kV	ALIPURDUAR-SALAKATI	2	0	78	0.0	1.1	-1.1
					ER-NER	0.0	10.1	-10.1
Import/Export of NER (With NR)								
1	HVDC	BISWANATH CHARIALI-AGRA	2	0	404	8.9	0.0	8.9
					NER-NR	8.9	0.0	8.9
Import/Export of WR (With NR)								
1	HVDC	CHAMPA-KURUKSHETRA	2	0	1503	0.0	36.3	-36.3
2	HVDC	VINDHYACHAL B/B	-	453	0	12.2	0.0	12.2
3	HVDC	MUNDRA-MOHINDERGARH	2	0	0	0.0	0.0	0.0
4	765 kV	GWALIOR-AGRA	2	575	1468	1.1	12.5	-11.4
5	765 kV	GWALIOR-PHAGI	2	488	989	2.1	7.0	-4.9
6	765 kV	JABALPUR-ORAI	2	145	572	0.0	7.6	-7.6
7	765 kV	GWALIOR-ORAI	1	669	0	10.4	0.0	10.4
8	765 kV	SATNA-ORAI	1	0	747	0.0	13.9	-13.9
9	765 kV	BANASKANTHA-CHITORGARH	2	1762	0	28.6	0.0	28.6
10	765 kV	VINDHYACHAL-VARANASI	2	0	2242	0.0	32.7	-32.7
11	400 kV	ZERDA-KANKROLI	1	416	0	8.1	0.0	8.1
12	400 kV	ZERDA -BHINMAL	1	760	0	13.9	0.0	13.9
13	400 kV	VINDHYACHAL -RIHAND	1	969	0	21.6	0.0	21.6
14	400 kV	RAPP-SHUJALPUR	2	633	52	8.6	0.0	8.6
15	220 kV	BHANPURA-RANPUR	1	0	0	0.0	0.0	0.0
16	220 kV	BHANPURA-MORAK	1	0	30	0.0	0.0	0.0
17	220 kV	MEHGAON-AURAIYA	1	142	0	1.3	0.0	1.3
18	220 kV	MALANPUR-AURAIYA	1	96	0	2.3	0.0	2.3
19	132 kV	GWALIOR-SAWAI MADHOPUR	1	0	0	0.0	0.0	0.0
20	132 kV	RAJGHAT-LALITPUR	2	0	0	0.0	0.0	0.0
					WR-NR	110.2	109.9	0.2
Import/Export of WR (With SR)								
1	HVDC	BHADRAWATI B/B	-	0	1019	0.0	24.0	-24.0
2	HVDC	RAIGARH-PUGALUR	2	0	6026	0.0	107.5	-107.5
3	765 kV	SOLAPUR-RAICHUR	2	934	1639	1.0	12.4	-11.4
4	765 kV	WARDHA-NIZAMABAD	2	0	3279	0.0	45.6	-45.6
5	400 kV	KOLHAPUR-KUDGI	2	1520	0	23.6	0.0	23.6
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	124	2.3	0.0	2.3
					WR-SR	27.0	189.5	-162.6

INTERNATIONAL EXCHANGES

Import(+ve)/Export(-ve)

State	Region	Line Name	Max (MW)	Min (MW)	Avg (MW)	Energy Exchange (MU)
BHUTAN	ER	400kV MANGDECHHU-ALIPURDUAR 1,2&3 i.e. ALIPURDUAR RECEIPT (from MANGDECHU HEP 4*180MW)	285	0	166	4.0
	ER	400kV TALA-BINAGURI 1,2,4 (& 400kV MALBASE - BINAGURI) i.e. BINAGURI RECEIPT (from TALA HEP (6*170MW)	267	238	245	5.9
	ER	220kV CHUKHA-BIRPARA 1&2 (& 220kV MALBASE - BIRPARA) i.e. BIRPARA RECEIPT (from CHUKHA HEP 4*84MW)	70	0	40	1.0
	NER	132kV GELEPHU-SALAKATI	36	6	7	0.2
	NER	132kV MOTANGA-RANGIA	13	2	8	0.2
NEPAL	NR	132kV MAHENDRANAGAR-TANAKPUR(NHPC)	-75	0	-50	-1.2
	ER	NEPAL IMPORT (FROM BIHAR)	-245	0	-75	-1.8
	ER	400kV DHALKEBAR-MUZAFFARPUR 1&2	-224	0	-78	-1.9
BANGLADESH	ER	BHERAMARA B/B HVDC (BANGLADESH)	-733	-727	-732	-17.6
	NER	132kV COMILLA-SURAJMANI NAGAR 1&2	-155	0	-124	-3.0