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: 18th 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 17.03.2021.

महोदय/Dear Sir,

आई०ई०जी०सी०-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 17-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 17th 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: 18-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)	48110	55819	47676	22352	2677	176634
Peak Shortage (MW)	1369	0	0	0	39	1408
Energy Met (MU)	1046	1342	1200	464	47	4099
Hydro Gen (MU)	107	62	109	39	10	328
Wind Gen (MU)	4	52	30	-	-	86
Solar Gen (MU)*	44.01	35.31	102.77	5.08	0.17	187
Energy Shortage (MU)	18.42	0.00	0.00	0.00	0.78	19.20
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	49633	59001	57002	22445	2860	185299
Time Of Maximum Demand Met (From NLDC SCADA)	19:27	11:25	10:53	18:32	18:16	10:25

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	0.095	0.13	4.93	22.25	27.31	65.21	7.48

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	6643	0	139.9	57.6	-0.7	167	0.00
	Haryana	6445	0	137.0	81.4	1.4	280	3.20
	Rajasthan	12578	139	245.1	76.1	1.2	251	3.57
	Delhi	3570	0	70.4	54.5	-1.5	114	0.00
	UP	18043	290	330.1	113.6	-1.5	619	1.51
	Uttarakhand	1951	0	38.9	23.3	1.4	221	0.14
	HP	1700	0	31.5	23.9	2.8	568	0.00
	J&K(UT) & Ladakh(UT)	2794	500	49.7	43.0	0.0	623	10.00
	Chandigarh	181	0	3.4	3.1	0.2	30	0.00
WR	Chhattisgarh	4596	0	109.0	51.5	0.3	322	0.00
	Gujarat	17626	0	387.3	143.8	-0.1	542	0.00
	MP	11409	0	232.9	122.8	-1.3	550	0.00
	Maharashtra	25255	0	554.4	156.4	1.0	849	0.00
	Goa	551	0	12.0	11.3	0.2	119	0.00
	DD	355	0	7.8	7.3	0.5	66	0.00
	DNH	874	0	20.4	20.5	-0.1	30	0.00
	AMNSIL	810	0	18.2	1.3	0.0	211	0.00
SR	Andhra Pradesh	10872	0	216.2	79.0	0.0	569	0.00
	Telangana	13347	0	275.6	149.7	2.1	769	0.00
	Karnataka	13606	0	266.0	96.9	8.1	1087	0.00
	Kerala	4257	0	87.1	54.7	-0.5	358	0.00
	Tamil Nadu	15876	0	347.1	214.6	-1.3	581	0.00
	Puducherry	407	0	8.3	8.6	-0.2	35	0.00
ER	Bihar	5085	0	94.4	75.6	4.7	508	0.00
	DVC	3277	0	70.3	-64.0	0.1	250	0.00
	Jharkhand	1433	0	26.6	19.2	-1.0	162	0.00
	Odisha	5106	0	108.3	35.2	0.7	450	0.00
	West Bengal	8243	0	163.6	31.9	-0.9	334	0.00
	Sikkim	86	0	1.2	1.7	-0.5	63	0.00
NER	Arunachal Pradesh	130	2	2.4	2.4	-0.1	18	0.01
	Assam	1621	14	27.6	22.6	0.3	102	0.75
	Manipur	201	2	2.8	2.6	0.2	30	0.01
	Meghalaya	345	0	6.2	3.3	0.3	31	0.00
	Mizoram	109	1	1.7	1.5	0.0	12	0.00
	Nagaland	145	2	2.3	2.1	0.1	17	0.01
	Tripura	250	5	4.0	3.4	-0.4	22	0.00

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

	Bhutan	Nepal	Bangladesh
Actual (MU)	4.6	-15.7	-20.7
Day Peak (MW)	230.0	-727.7	-887.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	188.8	-271.2	219.5	-138.6	1.6	0.0
Actual(MU)	177.0	-277.0	226.0	-133.6	1.0	-6.6
O/D/U/D(MU)	-11.8	-5.8	6.5	5.1	-0.6	-6.6

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL	% Share
Central Sector	6240	15298	6932	968	802	30240	44
State Sector	13532	13092	7504	3601	11	37740	56
Total	19772	28390	14436	4569	813	67980	100

G. Sourcewise generation (MU)

	NR	WR	SR	ER	NER	All India	% Share
Coal	620	1398	616	573	17	3225	77
Lignite	28	10	34	0	0	72	2
Hydro	107	62	109	39	10	328	8
Nuclear	26	15	47	0	0	88	2
Gas, Naptha & Diesel	29	52	16	0	24	121	3
RES (Wind, Solar, Biomass & Others)	75	89	166	5	0	335	8
Total	886	1626	988	617	52	4168	100

Share of RES in total generation (%)	8.45	5.44	16.81	0.82	0.33	8.03
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	23.48	10.22	32.60	7.12	20.17	18.01

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.030
Based on State Max Demands	1.078

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: 18-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	249	0.0	6.2	-6.2
3	765 kV	GAYA-VARANASI	2	0	639	0.0	12.1	-12.1
4	765 kV	SASARAM-FATEHPUR	1	0	320	0.0	5.7	-5.7
5	765 kV	GAYA-BALIA	1	0	492	0.0	8.2	-8.2
6	400 kV	PUSAULI-VARANASI	1	0	222	0.0	4.7	-4.7
7	400 kV	PUSAULI -ALLAHABAD	1	0	83	0.0	1.3	-1.3
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	0	621	0.0	9.0	-9.0
9	400 kV	PATNA-BALIA	4	0	1024	0.0	19.6	-19.6
10	400 kV	BIHARSHARIFF-BALIA	2	0	431	0.0	5.7	-5.7
11	400 kV	MOTIHARI-GORAKHPUR	2	0	368	0.0	5.9	-5.9
12	400 kV	BIHARSHARIFF-VARANASI	2	0	244	0.0	4.0	-4.0
13	220 kV	PUSAULI-SAHUPURI	1	51	107	0.0	0.8	-0.8
14	132 kV	SONE NAGAR-RIHAND	1	0	0	0.0	0.0	0.0
15	132 kV	GARWAH-RIHAND	1	20	0	0.4	0.0	0.4
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	0.4	83.0	-82.7
Import/Export of ER (With WR)								
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	1162	0	19.4	0.0	19.4
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	731	563	1.7	0.0	1.7
3	765 kV	JHARSUGUDA-DURG	2	30	186	0.0	2.3	-2.3
4	400 kV	JHARSUGUDA-RAIGARH	4	0	301	0.0	4.2	-4.2
5	400 kV	RANCHI-SIPAT	2	140	220	0.0	1.3	-1.3
6	220 kV	BUDHIPADAR-RAIGARH	1	0	158	0.0	2.8	-2.8
7	220 kV	BUDHIPADAR-KORBA	2	81	2	1.0	0.0	1.0
					ER-WR	22.1	10.5	11.6
Import/Export of ER (With SR)								
1	HVDC	JEYPORE-GAZUWAKA B/B	2	0	406	0.0	8.5	-8.5
2	HVDC	TALCHER-KOLAR BIPOLE	2	0	2478	0.0	46.7	-46.7
3	765 kV	ANGUL-SRIKAKULAM	2	0	2931	0.0	57.7	-57.7
4	400 kV	TALCHER-I/C	2	162	1105	0.0	12.3	-12.3
5	220 kV	BALIMELA-UPPER-SILERRU	1	1	0	0.0	0.0	0.0
					ER-SR	0.0	113.0	-113.0
Import/Export of ER (With NER)								
1	400 kV	BINAGURI-BONGAIGAON	2	238	19	3.3	0.0	3.3
2	400 kV	ALIPURDUAR-BONGAIGAON	2	382	0	5.4	0.0	5.4
3	220 kV	ALIPURDUAR-SALAKATI	2	62	7	0.8	0.0	0.8
					ER-NER	9.4	0.0	9.4
Import/Export of NER (With NR)								
1	HVDC	BISWANATH CHARIALI-AGRA	2	465	0	10.9	0.0	10.9
					NER-NR	10.9	0.0	10.9
Import/Export of WR (With NR)								
1	HVDC	CHAMPA-KURUKSHETRA	2	0	1003	0.0	27.0	-27.0
2	HVDC	VINDHYACHAL B/B	-	242	57	5.3	0.0	5.3
3	HVDC	MUNDRA-MOHINDERGARH	2	0	984	0.0	24.2	-24.2
4	765 kV	GWALIOR-AGRA	2	0	2438	0.0	37.3	-37.3
5	765 kV	PHAGI-GWALIOR	2	0	1325	0.0	19.9	-19.9
6	765 kV	JABALPUR-ORAI	2	0	916	0.0	28.8	-28.8
7	765 kV	GWALIOR-ORAI	1	574	0	11.2	0.0	11.2
8	765 kV	SATNA-ORAI	1	0	1350	0.0	26.8	-26.8
9	765 kV	CHITORGARH-BANASKANTHA	2	768	99	7.8	0.0	7.8
10	400 kV	ZERDA-KANKROLI	1	239	0	3.4	0.0	3.4
11	400 kV	ZERDA -BHINMAL	1	323	16	3.5	0.0	3.5
12	400 kV	VINDHYACHAL -RIHAND	1	982	0	22.6	0.0	22.6
13	400 kV	RAPP-SHUJALPUR	2	0	424	0.0	4.7	-4.7
14	220 kV	BHANPURA-RANPUR	1	9	69	0.0	0.6	-0.6
15	220 kV	BHANPURA-MORAK	1	0	30	0.0	0.3	-0.3
16	220 kV	MEHGAON-AURAIYA	1	128	0	1.7	0.0	1.7
17	220 kV	MALANPUR-AURAIYA	1	79	13	0.7	0.0	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	56.1	169.7	-113.6
Import/Export of WR (With SR)								
1	HVDC	BHADRAWATI B/B	-	0	1019	0.0	20.7	-20.7
2	HVDC	RAIGARH-PUGALUR	2	0	1509	0.0	59.2	-59.2
3	765 kV	SOLAPUR-RAICHUR	2	0	2624	0.0	33.3	-33.3
4	765 kV	WARDHA-NIZAMABAD	2	0	3240	0.0	56.4	-56.4
5	400 kV	KOLHAPUR-KUDGI	2	1109	0	16.7	0.0	16.7
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	86	1.8	0.0	1.8
					WR-SR	18.5	169.7	-151.2

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)	135	0	130	3.1
	ER	400kV TALA-BINAGURI 1,2,4 (& 400kV MALBASE - BINAGURI) i.e. BINAGURI RECEIPT (from TALA HEP (6*170MW)	115	0	89	2.1
	ER	220kV CHUKHA-BIRPARA 1&2 (& 220kV MALBASE - BIRPARA) i.e. BIRPARA RECEIPT (from CHUKHA HEP 4*84MW)	0	0	0	-0.7
	NER	132KV-GEYLEGPHU - SALAKATI	-37	-17	21	0.5
	NER	132kV Motanga-Rangia	20	0	-3	-0.1
NEPAL	NR	132KV-TANAKPUR(NH) - MAHENDRANAGAR(PG)	-79	0	-76	-1.8
	ER	400KV-MUZAFFARPUR - DHALKEBAR DC	-340	-260	-329	-7.9
	ER	132KV-BIHAR - NEPAL	-309	-120	-248	-5.9
BANGLADESH	ER	BHERAMARA HVDC(BANGLADESH)	-728	-720	-723	-17.4
	NER	132KV-SURAJMANI NAGAR - COMILLA(BANGLADESH)-1	79	0	-70	-1.7
	NER	132KV-SURAJMANI NAGAR - COMILLA(BANGLADESH)-2	80	0	-70	-1.7