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: 15th 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 14.03.2021.

महोदय/Dear Sir,

आई०ई०जी०सी०-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 14-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 14th 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:** **15-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)	43847	52383	42310	20437	2388	161365
Peak Shortage (MW)	865	0	0	114	93	1072
Energy Met (MU)	986	1267	1115	401	43	3812
Hydro Gen (MU)	108	41	66	39	9	264
Wind Gen (MU)	3	49	49	-	-	101
Solar Gen (MU)*	47.67	37.63	109.53	4.80	0.20	200
Energy Shortage (MU)	11.09	0.00	0.00	0.34	1.35	12.78
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	47054	54993	52524	20643	2418	170601
Time Of Maximum Demand Met (From NLDC SCADA)	19:25	07:29	09:56	19:13	18:28	09:41

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	0.037	0.00	0.17	5.90	6.08	76.81	17.12

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	6236	0	135.3	65.2	-0.6	148	0.00
	Haryana	5739	0	123.5	66.1	0.8	177	0.00
	Rajasthan	12236	0	239.2	76.1	2.9	505	0.24
	Delhi	3259	0	63.0	50.4	-1.2	99	0.01
	UP	17042	0	309.1	115.2	-1.5	371	0.24
	Uttarakhand	1794	0	35.3	19.4	-0.2	126	0.00
	HP	1572	15	28.1	23.0	0.3	189	0.60
	J&K(UT) & Ladakh(UT)	2537	500	49.7	43.2	-0.4	377	10.00
	Chandigarh	163	0	2.9	3.0	-0.1	9	0.00
WR	Chhattisgarh	4350	0	102.9	49.7	0.6	296	0.00
	Gujarat	16970	0	372.8	149.3	-0.1	922	0.00
	MP	11129	0	224.6	126.1	-1.2	494	0.00
	Maharashtra	23170	0	511.7	158.4	-3.4	788	0.00
	Goa	500	0	10.6	10.4	-0.3	92	0.00
	DD	324	0	7.3	7.0	0.3	146	0.00
	DNH	858	0	20.1	19.8	0.3	308	0.00
	AMNSIL	787	0	17.0	1.2	0.0	268	0.00
SR	Andhra Pradesh	10741	0	209.3	86.1	0.5	501	0.00
	Telangana	13068	0	263.8	146.4	-0.2	499	0.00
	Karnataka	12230	0	247.4	103.1	0.2	625	0.00
	Kerala	4017	0	76.1	58.4	0.0	280	0.00
	Tamil Nadu	13515	0	311.2	196.8	-1.7	506	0.00
	Puducherry	350	0	7.6	7.9	-0.3	21	0.00
ER	Bihar	5047	0	86.6	76.3	-1.2	274	0.00
	DVC	3114	0	66.8	-59.9	-0.2	341	0.00
	Jharkhand	1430	114	25.3	19.3	-1.2	112	0.34
	Odisha	4376	0	87.0	13.7	0.0	336	0.00
	West Bengal	7394	0	134.4	13.6	-1.8	320	0.00
	Sikkim	81	0	0.9	1.6	-0.7	3	0.00
NER	Arunachal Pradesh	124	1	2.2	1.9	0.2	40	0.01
	Assam	1351	50	24.3	19.1	0.6	76	1.20
	Manipur	195	1	2.7	2.7	0.0	33	0.01
	Meghalaya	328	0	6.1	5.5	-0.1	24	0.00
	Mizoram	95	1	1.6	1.4	0.0	19	0.01
	Nagaland	110	10	2.1	2.0	0.0	12	0.12
	Tripura	239	2	3.7	3.6	-0.7	82	0.00

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

	Bhutan	Nepal	Bangladesh
Actual (MU)	7.1	-12.7	-20.7
Day Peak (MW)	516.0	-648.4	-888.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	188.8	-239.7	207.4	-155.4	-1.1	0.0
Actual(MU)	186.9	-240.3	216.1	-165.8	-1.5	-4.6
O/D/U/D(MU)	-1.8	-0.6	8.6	-10.4	-0.4	-4.6

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL	% Share
Central Sector	6290	16088	6532	1548	439	30897	44
State Sector	12517	14519	8787	2837	11	38671	56
Total	18807	30607	15319	4385	450	69567	100

G. Sourcewise generation (MU)

	NR	WR	SR	ER	NER	All India	% Share
Coal	552	1332	553	562	10	3009	77
Lignite	25	10	42	0	0	77	2
Hydro	108	41	67	39	9	264	7
Nuclear	27	22	46	0	0	95	2
Gas, Naptha & Diesel	26	37	12	0	30	105	3
RES (Wind, Solar, Biomass & Others)	79	87	195	5	0	366	9
Total	816	1529	915	605	50	3916	100

Share of RES in total generation (%)	9.62	5.70	21.35	0.80	0.40	9.35
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	26.15	9.82	33.69	7.18	19.20	18.52

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.041
Based on State Max Demands	1.093

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: 15-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	251	0.0	6.3	-6.3
3	765 kV	GAYA-VARANASI	2	0	899	0.0	15.4	-15.4
4	765 kV	SASARAM-FATEHPUR	1	0	420	0.0	7.0	-7.0
5	765 kV	GAYA-BALIA	1	0	452	0.0	7.7	-7.7
6	400 kV	PUSAULI-VARANASI	1	0	187	0.0	4.2	-4.2
7	400 kV	PUSAULI -ALLAHABAD	1	0	108	0.0	1.9	-1.9
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	0	873	0.0	13.0	-13.0
9	400 kV	PATNA-BALIA	4	0	1166	0.0	20.2	-20.2
10	400 kV	BIHARSHARIFF-BALIA	2	0	397	0.0	6.8	-6.8
11	400 kV	MOTIHARI-GORAKHPUR	2	0	331	0.0	6.1	-6.1
12	400 kV	BIHARSHARIFF-VARANASI	2	0	332	0.0	4.7	-4.7
13	220 kV	PUSAULI-SAHUPURI	1	21	90	0.0	1.1	-1.1
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	94.2	-93.9
Import/Export of ER (With WR)								
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	803	0	11.7	0.0	11.7
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	363	1024	0.0	8.3	-8.3
3	765 kV	JHARSUGUDA-DURG	2	0	323	0.0	4.9	-4.9
4	400 kV	JHARSUGUDA-RAIGARH	4	0	476	0.0	7.1	-7.1
5	400 kV	RANCHI-SIPAT	2	44	360	0.0	3.9	-3.9
6	220 kV	BUDHIPADAR-RAIGARH	1	0	162	0.0	2.8	-2.8
7	220 kV	BUDHIPADAR-KORBA	2	50	32	0.3	0.0	0.3
					ER-WR	11.9	27.0	-15.1
Import/Export of ER (With SR)								
1	HVDC	JEYPORE-GAZUWAKA B/B	2	0	375	0.0	8.5	-8.5
2	HVDC	TALCHER-KOLAR BIPOLE	2	0	2482	0.0	50.6	-50.6
3	765 kV	ANGUL-SRIKAKULAM	2	0	3194	0.0	62.4	-62.4
4	400 kV	TALCHER-I/C	2	0	675	0.0	5.6	-5.6
5	220 kV	BALIMELA-UPPER-SILERRU	1	1	0	0.0	0.0	0.0
					ER-SR	0.0	121.5	-121.5
Import/Export of ER (With NER)								
1	400 kV	BINAGURI-BONGAIGAON	2	328	0	4.6	0.0	4.6
2	400 kV	ALIPURDUAR-BONGAIGAON	2	538	0	7.0	0.0	7.0
3	220 kV	ALIPURDUAR-SALAKATI	2	90	0	1.3	0.0	1.3
					ER-NER	12.9	0.0	12.9
Import/Export of NER (With NR)								
1	HVDC	BISWANATH CHARIALI-AGRA	2	465	0	11.5	0.0	11.5
					NER-NR	11.5	0.0	11.5
Import/Export of WR (With NR)								
1	HVDC	CHAMPA-KURUKSHETRA	2	0	1508	0.0	30.4	-30.4
2	HVDC	VINDHYACHAL B/B	-	241	0	6.0	0.0	6.0
3	HVDC	MUNDRA-MOHINDERGARH	2	0	985	0.0	24.2	-24.2
4	765 kV	GWALIOR-AGRA	2	0	2192	0.0	34.1	-34.1
5	765 kV	PHAGI-GWALIOR	2	0	1495	0.0	29.1	-29.1
6	765 kV	JABALPUR-ORAI	2	0	1122	0.0	32.7	-32.7
7	765 kV	GWALIOR-ORAI	1	682	0	8.3	0.0	8.3
8	765 kV	SATNA-ORAI	1	0	1334	0.0	13.6	-13.6
9	765 kV	CHITORGARH-BANASKANTHA	2	957	62	10.5	0.0	10.5
10	400 kV	ZERDA-KANKROLI	1	254	0	3.6	0.0	3.6
11	400 kV	ZERDA -BHINMAL	1	344	47	3.5	0.0	3.5
12	400 kV	VINDHYACHAL -RIHAND	1	971	0	22.4	0.0	22.4
13	400 kV	RAPP-SHUJALPUR	2	0	474	0.0	4.9	-4.9
14	220 kV	BHANPURA-RANPUR	1	15	61	0.0	0.5	-0.5
15	220 kV	BHANPURA-MORAK	1	0	30	0.0	1.2	-1.2
16	220 kV	MEHGAON-AURAIYA	1	132	0	1.7	0.0	1.7
17	220 kV	MALANPUR-AURAIYA	1	88	8	0.8	0.0	0.8
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	56.8	170.6	-113.8
Import/Export of WR (With SR)								
1	HVDC	BHADRAWATI B/B	-	0	1016	0.0	24.1	-24.1
2	HVDC	RAIGARH-PUGALUR	2	0	1515	0.0	50.4	-50.4
3	765 kV	SOLAPUR-RAICHUR	2	0	1955	0.0	28.4	-28.4
4	765 kV	WARDHA-NIZAMABAD	2	0	3209	0.0	56.2	-56.2
5	400 kV	KOLHAPUR-KUDGI	2	974	0	15.2	0.0	15.2
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	81	1.6	0.0	1.6
					WR-SR	16.8	159.1	-142.3

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)	185	175	184	4.4
	ER	400kV TALA-BINAGURI 1,2,4 (& 400kV MALBASE - BINAGURI) i.e. BINAGURI RECEIPT (from TALA HEP (6*170MW)	226	0	133	3.2
	ER	220kV CHUKHA-BIRPARA 1&2 (& 220kV MALBASE - BIRPARA) i.e. BIRPARA RECEIPT (from CHUKHA HEP 4*84MW)	54	0	-20	-0.5
	NER	132KV-GEYLEGPHU - SALAKATI	29	2	15	0.4
	NER	132kV Motanga-Rangia	22	2	3	0.1
NEPAL	NR	132KV-TANAKPUR(NH) - MAHENDRANAGAR(PG)	-80	0	-76	-1.8
	ER	400KV-MUZAFFARPUR - DHALKEBAR DC	-314	-201	-298	-7.2
	ER	132KV-BIHAR - NEPAL	-254	-67	-157	-3.8
BANGLADESH	ER	BHERAMARA HVDC(BANGLADESH)	-737	-732	-733	-17.6
	NER	132KV-SURAJMANI NAGAR - COMILLA(BANGLADESH)-1	76	0	-65	-1.6
	NER	132KV-SURAJMANI NAGAR - COMILLA(BANGLADESH)-2	75	0	-65	-1.6