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: 28th 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 27.03.2021.

महोदय/Dear Sir,

आई०ई०जी०सी०-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 27-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 27th 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:** **28-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)	43180	55377	48668	21716	2678	171619
Peak Shortage (MW)	1240	0	0	0	69	1309
Energy Met (MU)	977	1339	1236	470	47	4069
Hydro Gen (MU)	100	57	98	33	4	291
Wind Gen (MU)	19	45	26	-	-	90
Solar Gen (MU)*	47.99	38.79	101.74	5.44	0.18	194
Energy Shortage (MU)	8.27	0.17	0.00	0.00	0.84	9.28
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	47989	59427	57733	21761	2892	182464
Time Of Maximum Demand Met (From NLDC SCADA)	19:36	16:22	14:47	18:52	18:35	11:16

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	0.07	2.53	2.60	72.62	24.78

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	6157	0	130.5	53.4	0.3	174	0.00
	Haryana	5815	0	125.7	74.9	0.2	187	0.00
	Rajasthan	10364	0	208.1	24.7	-1.4	325	0.00
	Delhi	3332	0	68.2	51.5	-0.6	115	0.00
	UP	17596	140	324.5	129.0	-1.3	265	0.52
	Uttarakhand	1848	0	37.8	26.3	0.5	136	0.15
	HP	1601	0	30.5	23.5	0.4	295	0.00
	J&K(UT) & Ladakh(UT)	2512	400	48.9	41.5	0.9	283	7.60
	Chandigarh	170	0	3.1	3.0	0.1	20	0.00
WR	Chhattisgarh	4682	0	112.1	56.8	-0.2	165	0.17
	Gujarat	18357	0	395.1	148.1	1.6	863	0.00
	MP	11071	0	225.6	116.8	0.0	646	0.00
	Maharashtra	25068	0	547.6	169.5	1.7	822	0.00
	Goa	584	0	12.6	12.4	-0.3	42	0.00
	DD	334	0	7.7	7.4	0.3	30	0.00
	DNH	864	0	20.0	19.7	0.4	48	0.00
	AMNSIL	849	0	17.8	1.2	0.2	227	0.00
SR	Andhra Pradesh	11117	0	220.7	94.9	2.3	578	0.00
	Telangana	13409	0	281.5	144.4	0.3	920	0.00
	Karnataka	13869	0	276.0	96.8	1.8	534	0.00
	Kerala	4045	0	87.2	55.8	1.2	246	0.00
	Tamil Nadu	16270	0	362.0	243.4	2.7	814	0.00
	Puducherry	409	0	8.6	8.8	-0.2	30	0.00
ER	Bihar	5177	0	96.1	88.7	-1.8	189	0.00
	DVC	3333	0	71.8	-50.8	-0.6	180	0.00
	Jharkhand	1646	0	28.4	22.7	-1.9	175	0.00
	Odisha	4431	0	92.2	38.3	-0.1	357	0.00
	West Bengal	8402	0	180.9	33.4	-0.2	392	0.00
	Sikkim	82	0	1.1	1.5	-0.4	15	0.00
NER	Arunachal Pradesh	124	3	2.0	1.9	0.0	58	0.01
	Assam	1612	52	28.3	23.6	0.3	100	0.80
	Manipur	189	4	2.4	2.5	-0.1	46	0.01
	Meghalaya	349	0	6.1	4.7	0.2	58	0.00
	Mizoram	109	3	1.6	1.4	0.0	40	0.01
	Nagaland	130	3	2.0	1.8	0.1	23	0.01
	Tripura	272	6	4.4	3.6	0.6	125	0.00

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

	Bhutan	Nepal	Bangladesh
Actual (MU)	6.1	-12.6	-21.1
Day Peak (MW)	358.0	-707.0	-905.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	134.8	-285.1	251.1	-113.5	12.8	0.0
Actual(MU)	112.7	-285.8	263.2	-111.0	13.8	-7.1
O/D/U/D(MU)	-22.1	-0.8	12.2	2.6	1.0	-7.1

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL	% Share
Central Sector	4599	14133	7592	1008	1472	28803	43
State Sector	14042	13993	6836	3250	11	38132	57
Total	18641	28126	14428	4258	1483	66935	100

G. Sourcewise generation (MU)

	NR	WR	SR	ER	NER	All India	% Share
Coal	602	1399	635	578	11	3225	78
Lignite	22	10	36	0	0	69	2
Hydro	100	57	98	33	4	291	7
Nuclear	27	27	41	0	0	95	2
Gas, Naptha & Diesel	32	55	17	0	24	127	3
RES (Wind, Solar, Biomass & Others)	95	84	165	5	0	350	8
Total	878	1633	992	616	39	4157	100

Share of RES in total generation (%)	10.83	5.17	16.63	0.88	0.46	8.42
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	25.22	10.30	30.64	6.20	11.17	17.70

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.040
Based on State Max Demands	1.075

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: 28-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	6.2	-6.2
3	765 kV	GAYA-VARANASI	2	0	585	0.0	7.9	-7.9
4	765 kV	SASARAM-FATEHPUR	1	27	185	0.0	1.8	-1.8
5	765 kV	GAYA-BALIA	1	0	359	0.0	5.1	-5.1
6	400 kV	PUSAULI-VARANASI	1	0	199	0.0	4.2	-4.2
7	400 kV	PUSAULI -ALLAHABAD	1	0	114	0.0	1.8	-1.8
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	218	430	0.0	4.2	-4.2
9	400 kV	PATNA-BALIA	4	0	968	0.0	16.2	-16.2
10	400 kV	BIHARSHARIFF-BALIA	2	101	165	0.0	1.2	-1.2
11	400 kV	MOTIHARI-GORAKHPUR	2	0	171	0.0	1.7	-1.7
12	400 kV	BIHARSHARIFF-VARANASI	2	6	234	0.0	2.4	-2.4
13	220 kV	PUSAULI-SAHUPURI	1	59	82	0.0	0.5	-0.5
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	53.1	-52.7
Import/Export of ER (With WR)								
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	1649	0	28.6	0.0	28.6
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	392	473	0.8	0.0	0.8
3	765 kV	JHARSUGUDA-DURG	2	71	161	0.0	1.0	-1.0
4	400 kV	JHARSUGUDA-RAIGARH	4	48	327	0.0	3.1	-3.1
5	400 kV	RANCHI-SIPAT	2	91	192	0.0	0.4	-0.4
6	220 kV	BUDHIPADAR-RAIGARH	1	0	126	0.0	2.2	-2.2
7	220 kV	BUDHIPADAR-KORBA	2	102	38	1.1	0.0	1.1
					ER-WR	30.4	6.8	23.7
Import/Export of ER (With SR)								
1	HVDC	JEYPORE-GAZUWAKA B/B	2	0	350	0.0	8.6	-8.6
2	HVDC	TALCHER-KOLAR BIPOLE	2	0	2471	0.0	51.8	-51.8
3	765 kV	ANGUL-SRIKAKULAM	2	0	3448	0.0	68.7	-68.7
4	400 kV	TALCHER-I/C	2	0	872	0.0	8.3	-8.3
5	220 kV	BALIMELA-UPPER-SILERRU	1	1	0	0.0	0.0	0.0
					ER-SR	0.0	129.1	-129.1
Import/Export of ER (With NER)								
1	400 kV	BINAGURI-BONGAIGAON	2	101	256	0.0	1.1	-1.1
2	400 kV	ALIPURDUAR-BONGAIGAON	2	178	357	0.0	1.4	-1.4
3	220 kV	ALIPURDUAR-SALAKATI	2	17	43	0.0	0.1	-0.1
					ER-NER	0.0	2.6	-2.6
Import/Export of NER (With NR)								
1	HVDC	BISWANATH CHARIALI-AGRA	2	470	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	1501	0.0	28.1	-28.1
2	HVDC	VINDHYACHAL B/B	-	226	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	35.0	-35.0
5	765 kV	PHAGI-GWALIOR	2	0	863	0.0	14.1	-14.1
6	765 kV	JABALPUR-ORAI	2	491	712	0.0	20.1	-20.1
7	765 kV	GWALIOR-ORAI	1	558	0	10.4	0.0	10.4
8	765 kV	SATNA-ORAI	1	0	1344	0.0	26.4	-26.4
9	765 kV	CHITORGARH-BANASKANTHA	2	1450	19	16.2	0.0	16.2
10	400 kV	ZERDA-KANKROLI	1	411	0	6.1	0.0	6.1
11	400 kV	ZERDA -BHINMAL	1	604	0	8.6	0.0	8.6
12	400 kV	VINDHYACHAL -RIHAND	1	983	0	15.6	0.0	15.6
13	400 kV	RAPP-SHUJALPUR	2	193	260	1.3	1.0	0.3
14	220 kV	BHANPURA-RANPUR	1	55	32	0.4	0.1	0.2
15	220 kV	BHANPURA-MORAK	1	0	30	0.9	0.0	0.9
16	220 kV	MEHGAON-AURAIYA	1	128	0	0.8	0.0	0.8
17	220 kV	MALANPUR-AURAIYA	1	89	0	1.5	0.0	1.5
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	67.7	149.2	-81.5
Import/Export of WR (With SR)								
1	HVDC	BHADRAWATI B/B	-	0	1019	0.0	22.4	-22.4
2	HVDC	RAIGARH-PUGALUR	2	0	1513	0.0	69.3	-69.3
3	765 kV	SOLAPUR-RAICHUR	2	0	2298	0.0	39.4	-39.4
4	765 kV	WARDHA-NIZAMABAD	2	0	3421	0.0	65.7	-65.7
5	400 kV	KOLHAPUR-KUDGI	2	905	0	14.3	0.0	14.3
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	97	1.9	0.0	1.9
					WR-SR	16.2	196.7	-180.5

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)	163	107	125	3.0
	ER	400kV TALA-BINAGURI 1,2,4 (& 400kV MALBASE - BINAGURI) i.e. BINAGURI RECEIPT (from TALA HEP (6*170MW)	197	0	145	3.5
	ER	220kV CHUKHA-BIRPARA 1&2 (& 220kV MALBASE - BIRPARA) i.e. BIRPARA RECEIPT (from CHUKHA HEP 4*84MW)	14	0	-15	-0.4
	NER	132KV-GEYLEGPHU - SALAKATI	34	0	13	0.3
	NER	132kV Motanga-Rangia	-50	-6	-13	-0.3
NEPAL	NR	132KV-TANAKPUR(NH) - MAHENDRANAGAR(PG)	-81	0	-25	-0.6
	ER	400KV-MUZAFFARPUR - DHALKEBAR DC	-291	-166	-266	-6.4
	ER	132KV-BIHAR - NEPAL	-335	-179	-235	-5.6
BANGLADESH	ER	BHERAMARA HVDC(BANGLADESH)	-737	-725	-732	-17.6
	NER	132KV-SURAJMANI NAGAR - COMILLA(BANGLADESH)-1	85	0	-74	-1.8
	NER	132KV-SURAJMANI NAGAR - COMILLA(BANGLADESH)-2	83	0	-74	-1.8