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: 01st Apr 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 31.03.2021.

महोदय/Dear Sir,

आई०ई०जी०सी०-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 31-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 31st 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:** **01-Apr-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)	41860	54745	48327	23213	2108	170253
Peak Shortage (MW)	1080	0	0	0	180	1260
Energy Met (MU)	925	1321	1232	483	37	3998
Hydro Gen (MU)	116	43	69	34	6	267
Wind Gen (MU)	34	96	67	-	-	197
Solar Gen (MU)*	53.01	39.61	112.66	5.03	0.13	210
Energy Shortage (MU)	7.60	0.00	0.00	0.00	4.54	12.14
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	47630	57987	57414	23636	2335	175489
Time Of Maximum Demand Met (From NLDC SCADA)	19:35	11:24	10:53	19:12	18:13	10:55

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	0.040	0.00	0.00	1.68	1.68	68.27	30.05

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	5895	0	126.4	57.5	-1.0	159	0.00
	Haryana	5967	0	112.8	74.0	0.3	255	0.00
	Rajasthan	9973	0	203.4	7.3	0.9	662	0.00
	Delhi	3570	0	73.6	58.3	-1.2	82	0.00
	UP	17521	0	295.3	115.0	-4.7	294	0.00
	Uttarakhand	1716	0	32.9	28.1	-1.3	152	0.00
	HP	1518	0	29.1	20.9	0.5	168	0.00
	J&K(UT) & Ladakh(UT)	2485	400	47.8	39.1	-1.5	362	7.60
	Chandigarh	181	0	3.4	3.4	0.0	18	0.00
WR	Chhattisgarh	4533	0	108.1	49.2	-0.6	206	0.00
	Gujarat	18183	0	392.0	118.6	-1.0	570	0.00
	MP	10701	0	219.0	108.1	-1.9	582	0.00
	Maharashtra	25270	0	546.1	188.7	-2.5	892	0.00
	Goa	552	0	12.2	12.2	-0.5	24	0.00
	DD	319	0	7.2	6.8	0.4	35	0.00
	DNH	806	0	18.7	18.7	0.0	45	0.00
	AMNSIL	838	0	17.4	1.2	1.0	311	0.00
SR	Andhra Pradesh	11123	0	225.0	118.7	-0.7	770	0.00
	Telangana	13361	0	278.8	154.6	-0.5	788	0.00
	Karnataka	13948	0	272.2	99.5	0.1	610	0.00
	Kerala	4284	0	87.2	60.8	0.5	351	0.00
	Tamil Nadu	15975	0	359.7	218.5	-4.0	862	0.00
	Puducherry	421	0	8.9	9.0	-0.1	53	0.00
ER	Bihar	5401	0	95.5	85.4	0.3	343	0.00
	DVC	3283	0	69.2	-52.6	0.2	436	0.00
	Jharkhand	1565	0	28.1	21.2	-1.6	128	0.00
	Odisha	4815	0	99.0	42.3	0.8	418	0.00
	West Bengal	9158	0	190.0	47.4	0.2	394	0.00
	Sikkim	79	0	1.2	1.2	0.1	54	0.00
NER	Arunachal Pradesh	128	1	2.2	2.3	-0.3	23	0.01
	Assam	1335	140	21.2	16.2	0.1	102	4.50
	Manipur	188	1	2.2	2.1	0.1	42	0.01
	Meghalaya	378	0	5.5	3.9	-0.3	94	0.00
	Mizoram	101	1	1.0	1.4	-0.4	36	0.01
	Nagaland	107	1	1.7	1.8	-0.2	8	0.01
	Tripura	242	19	3.5	2.8	0.1	69	0.00

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

	Bhutan	Nepal	Bangladesh
Actual (MU)	3.4	-13.3	-23.0
Day Peak (MW)	349.0	-647.9	-1033.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	118.8	-279.8	255.3	-97.1	2.9	0.0
Actual(MU)	93.9	-259.7	239.8	-86.2	2.7	-9.6
O/D/U/D(MU)	-24.9	20.1	-15.5	10.9	-0.2	-9.6

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL	% Share
Central Sector	5199	13103	4842	1208	1222	25573	41
State Sector	13202	12876	6496	3643	11	36227	59
Total	18401	25978	11338	4851	1233	61801	100

G. Sourcewise generation (MU)

	NR	WR	SR	ER	NER	All India	% Share
Coal	537	1357	613	569	11	3086	75
Lignite	22	11	45	0	0	78	2
Hydro	116	43	69	34	6	268	7
Nuclear	27	25	41	0	0	93	2
Gas, Naptha & Diesel	27	46	15	0	24	112	3
RES (Wind, Solar, Biomass & Others)	115	136	214	5	0	470	11
Total	844	1617	997	608	41	4107	100

Share of RES in total generation (%)	13.62	8.41	21.44	0.83	0.32	11.44
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	30.52	12.62	32.47	6.48	14.61	20.23

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.077
Based on State Max Demands	1.116

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: 01-Apr-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	5.9	-5.9
3	765 kV	GAYA-VARANASI	2	134	530	0.0	7.2	-7.2
4	765 kV	SASARAM-FATEHPUR	1	59	232	0.0	2.5	-2.5
5	765 kV	GAYA-BALIA	1	0	330	0.0	5.2	-5.2
6	400 kV	PUSAULI-VARANASI	1	0	214	0.0	4.2	-4.2
7	400 kV	PUSAULI -ALLAHABAD	1	0	99	0.0	1.7	-1.7
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	490	422	0.0	1.0	-1.0
9	400 kV	PATNA-BALIA	4	3	804	0.0	13.0	-13.0
10	400 kV	BIHARSHARIFF-BALIA	2	267	202	0.0	0.6	-0.6
11	400 kV	MOTIHARI-GORAKHPUR	2	69	269	0.0	3.3	-3.3
12	400 kV	BIHARSHARIFF-VARANASI	2	142	194	0.0	2.0	-2.0
13	220 kV	PUSAULI-SAHUPURI	1	75	120	0.0	1.0	-1.0
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	0.3	47.6	-47.3
Import/Export of ER (With WR)								
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	1589	0	26.0	0.0	26.0
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	681	486	4.1	0.0	4.1
3	765 kV	JHARSUGUDA-DURG	2	22	198	0.0	1.9	-1.9
4	400 kV	JHARSUGUDA-RAIGARH	4	0	377	0.0	4.5	-4.5
5	400 kV	RANCHI-SIPAT	2	205	201	0.3	0.0	0.3
6	220 kV	BUDHIPADAR-RAIGARH	1	0	125	0.0	1.8	-1.8
7	220 kV	BUDHIPADAR-KORBA	2	169	0	2.7	0.0	2.7
					ER-WR	33.1	8.2	25.0
Import/Export of ER (With SR)								
1	HVDC	JEYPORE-GAZUWAKA B/B	2	0	406	0.0	8.6	-8.6
2	HVDC	TALCHER-KOLAR BIPOLE	2	0	2003	0.0	47.5	-47.5
3	765 kV	ANGUL-SRIKAKULAM	2	0	3115	0.0	65.1	-65.1
4	400 kV	TALCHER-I/C	2	0	988	0.0	5.2	-5.2
5	220 kV	BALIMELA-UPPER-SILERRU	1	1	0	0.0	0.0	0.0
					ER-SR	0.0	121.3	-121.3
Import/Export of ER (With NER)								
1	400 kV	BINAGURI-BONGAIGAON	2	247	1	3.0	0.0	3.0
2	400 kV	ALIPURDUAR-BONGAIGAON	2	423	0	5.0	0.0	5.0
3	220 kV	ALIPURDUAR-SALAKATI	2	61	0	0.8	0.0	0.8
					ER-NER	8.8	0.0	8.8
Import/Export of NER (With NR)								
1	HVDC	BISWANATH CHARIALI-AGRA	2	468	0	11.6	0.0	11.6
					NER-NR	11.6	0.0	11.6
Import/Export of WR (With NR)								
1	HVDC	CHAMPA-KURUKSHETRA	2	0	1802	0.0	33.2	-33.2
2	HVDC	VINDHYACHAL B/B	-	239	0	6.0	0.0	6.0
3	HVDC	MUNDRA-MOHINDERGARH	2	0	1171	0.0	17.2	-17.2
4	765 kV	GWALIOR-AGRA	2	0	2245	0.0	35.7	-35.7
5	765 kV	PHAGI-GWALIOR	2	35	746	0.0	8.1	-8.1
6	765 kV	JABALPUR-ORAI	2	328	715	0.0	18.8	-18.8
7	765 kV	GWALIOR-ORAI	1	496	12	8.1	0.0	8.1
8	765 kV	SATNA-ORAI	1	0	1280	0.0	23.5	-23.5
9	765 kV	CHITORGARH-BANASKANTHA	2	952	0	12.1	0.0	12.1
10	400 kV	ZERDA-KANKROLI	1	303	0	5.2	0.0	5.2
11	400 kV	ZERDA -BHINMAL	1	538	0	8.8	0.0	8.8
12	400 kV	VINDHYACHAL -RIHAND	1	968	0	21.7	0.0	21.7
13	400 kV	RAPP-SHUJALPUR	2	334	260	1.8	0.0	1.8
14	220 kV	BHANPURA-RANPUR	1	0	12	0.1	0.4	-0.3
15	220 kV	BHANPURA-MORAK	1	0	30	0.4	0.2	0.2
16	220 kV	MEHGAON-AURAIYA	1	124	0	0.8	0.0	0.8
17	220 kV	MALANPUR-AURAIYA	1	90	0	1.4	0.0	1.4
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	66.3	137.1	-70.8
Import/Export of WR (With SR)								
1	HVDC	BHADRAWATI B/B	-	0	1026	0.0	24.1	-24.1
2	HVDC	RAIGARH-PUGALUR	2	0	1502	0.0	59.4	-59.4
3	765 kV	SOLAPUR-RAICHUR	2	0	2069	0.0	33.3	-33.3
4	765 kV	WARDHA-NIZAMABAD	2	0	3440	0.0	64.0	-64.0
5	400 kV	KOLHAPUR-KUDGI	2	936	0	15.3	0.0	15.3
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	91	1.6	0.0	1.6
					WR-SR	16.9	180.8	-163.9

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)	190	0	81	2.0
	ER	400kV TALA-BINAGURI 1,2,4 (& 400kV MALBASE - BINAGURI) i.e. BINAGURI RECEIPT (from TALA HEP (6*170MW)	93	58	75	1.8
	ER	220kV CHUKHA-BIRPARA 1&2 (& 220kV MALBASE - BIRPARA) i.e. BIRPARA RECEIPT (from CHUKHA HEP 4*84MW)	15	0	-26	-0.6
	NER	132KV-GEYLEGPHU - SALAKATI	27	2	13	0.3
	NER	132kV Motanga-Rangia	24	0	2	0.0
NEPAL	NR	132KV-TANAKPUR(NH) - MAHENDRANAGAR(PG)	0	0	0	0.0
	ER	400KV-MUZAFFARPUR - DHALKEBAR DC	-338	-276	-326	-7.8
	ER	132KV-BIHAR - NEPAL	-310	-157	-228	-5.5
	ER	BHERAMARA HVDC(BANGLADESH)	-864	-735	-832	-20.0
BANGLADESH	NER	132KV-SURAJMANI NAGAR - COMILLA(BANGLADESH)-1	84	0	-63	-1.5
	NER	132KV-SURAJMANI NAGAR - COMILLA(BANGLADESH)-2	85	0	-63	-1.5