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: 31st 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 30.03.2021.

महोदय/Dear Sir,

आई०ई०जी०सी०-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 30-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 30th 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:** **31-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)	40488	52639	48921	22782	2137	166967
Peak Shortage (MW)	930	0	0	0	287	1217
Energy Met (MU)	875	1248	1203	470	36	3832
Hydro Gen (MU)	112	44	69	33	4	262
Wind Gen (MU)	36	89	58	-	-	182
Solar Gen (MU)*	46.50	39.10	101.74	4.71	0.04	192
Energy Shortage (MU)	7.94	0.00	0.00	0.00	8.55	16.49
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	46215	56473	57702	23420	2292	174479
Time Of Maximum Demand Met (From NLDC SCADA)	19:45	11:18	15:48	19:30	18:19	19:31

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	0.042	0.00	0.45	4.54	4.99	64.49	30.52

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	5653	0	116.4	60.4	-1.4	152	0.00
	Haryana	5500	0	102.2	69.1	-1.1	260	0.28
	Rajasthan	9414	0	175.9	-5.7	-2.6	581	0.00
	Delhi	3374	0	70.2	54.9	-1.3	234	0.00
	UP	17169	0	299.6	127.5	-2.7	320	0.00
	Uttarakhand	1693	0	32.2	24.8	1.1	154	0.00
	HP	1372	0	25.5	18.4	-0.2	158	0.06
	J&K(UT) & Ladakh(UT)	2514	400	49.9	40.0	-0.6	280	7.60
	Chandigarh	186	0	3.5	3.4	0.1	31	0.00
WR	Chhattisgarh	4510	0	100.2	45.7	-0.8	440	0.00
	Gujarat	17563	0	355.5	105.0	-0.6	655	0.00
	MP	10265	0	208.6	97.5	13.3	818	0.00
	Maharashtra	25136	0	531.9	183.6	-0.1	764	0.00
	Goa	565	0	12.2	12.0	-0.3	34	0.00
	DD	285	0	5.4	5.5	-0.1	26	0.00
	DNH	768	0	15.8	15.7	0.1	58	0.00
	AMNSIL	833	0	18.8	1.2	0.7	282	0.00
SR	Andhra Pradesh	11070	0	219.5	112.0	-0.7	557	0.00
	Telangana	13317	0	275.0	153.8	0.7	540	0.00
	Karnataka	13078	0	265.1	95.1	1.4	643	0.00
	Kerala	4225	0	82.7	59.9	0.7	231	0.00
	Tamil Nadu	16061	0	352.5	228.1	-0.1	759	0.00
	Puducherry	405	0	8.2	8.4	-0.2	55	0.00
ER	Bihar	5248	0	97.5	86.9	0.6	297	0.00
	DVC	3247	0	64.0	-53.1	-0.4	417	0.00
	Jharkhand	1520	0	26.4	21.0	-2.7	154	0.00
	Odisha	4699	0	97.6	37.3	2.1	415	0.00
	West Bengal	8968	0	183.0	50.3	0.2	450	0.00
	Sikkim	80	0	1.1	1.2	-0.1	50	0.00
NER	Arunachal Pradesh	122	1	2.2	2.3	-0.2	19	0.01
	Assam	1186	277	19.9	15.6	-0.5	143	8.50
	Manipur	142	5	1.9	2.3	-0.3	22	0.01
	Meghalaya	305	0	4.8	4.4	-0.3	47	0.00
	Mizoram	97	4	1.3	1.5	-0.3	10	0.01
	Nagaland	124	2	2.3	1.9	0.3	16	0.01
	Tripura	250	6	3.8	3.5	-0.2	98	0.01

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

	Bhutan	Nepal	Bangladesh
Actual (MU)	3.2	-12.1	-24.0
Day Peak (MW)	421.0	-658.2	-1038.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	103.5	-283.9	262.7	-86.5	4.3	0.0
Actual(MU)	84.5	-296.4	267.4	-65.5	3.1	-6.9
O/D/U/D(MU)	-19.0	-12.5	4.7	21.0	-1.2	-6.9

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL	% Share
Central Sector	5699	12473	5842	958	1222	26193	41
State Sector	13592	14008	7806	3000	11	38417	59
Total	19291	26481	13648	3958	1233	64610	100

G. Sourcewise generation (MU)

	NR	WR	SR	ER	NER	All India	% Share
Coal	510	1311	594	531	10	2955	75
Lignite	20	10	44	0	0	75	2
Hydro	112	44	69	33	4	262	7
Nuclear	27	25	41	0	0	93	2
Gas, Naptha & Diesel	26	34	15	0	24	100	3
RES (Wind, Solar, Biomass & Others)	110	129	193	5	0	436	11
Total	805	1553	957	568	38	3921	100

Share of RES in total generation (%)	13.64	8.28	20.17	0.83	0.10	11.12
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	30.90	12.73	31.72	6.65	9.86	20.18

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.067
Based on State Max Demands	1.094

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: 31-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	6.1	-6.1
3	765 kV	GAYA-VARANASI	2	249	529	0.0	4.4	-4.4
4	765 kV	SASARAM-FATEHPUR	1	150	186	0.0	0.5	-0.5
5	765 kV	GAYA-BALIA	1	0	371	0.0	5.2	-5.2
6	400 kV	PUSAULI-VARANASI	1	0	240	0.0	4.6	-4.6
7	400 kV	PUSAULI -ALLAHABAD	1	0	94	0.0	1.3	-1.3
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	610	292	2.3	0.0	2.3
9	400 kV	PATNA-BALIA	4	66	808	0.0	9.6	-9.6
10	400 kV	BIHARSHARIFF-BALIA	2	290	143	1.2	0.0	1.2
11	400 kV	MOTIHARI-GORAKHPUR	2	69	306	0.0	2.7	-2.7
12	400 kV	BIHARSHARIFF-VARANASI	2	199	167	0.4	0.0	0.4
13	220 kV	PUSAULI-SAHUPURI	1	68	98	0.0	0.4	-0.4
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	4.2	34.7	-30.5
Import/Export of ER (With WR)								
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	1669	0	27.6	0.0	27.6
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	911	42	10.4	0.0	10.4
3	765 kV	JHARSUGUDA-DURG	2	89	119	0.0	0.6	-0.6
4	400 kV	JHARSUGUDA-RAIGARH	4	86	342	0.0	2.2	-2.2
5	400 kV	RANCHI-SIPAT	2	260	57	3.3	0.0	3.3
6	220 kV	BUDHIPADAR-RAIGARH	1	0	128	0.0	2.0	-2.0
7	220 kV	BUDHIPADAR-KORBA	2	166	0	2.6	0.0	2.6
					ER-WR	43.9	4.9	39.0
Import/Export of ER (With SR)								
1	HVDC	JEYPORE-GAZUWAKA B/B	2	0	388	0.0	8.6	-8.6
2	HVDC	TALCHER-KOLAR BIPOLE	2	0	2479	0.0	50.5	-50.5
3	765 kV	ANGUL-SRIKAKULAM	2	0	3270	0.0	68.1	-68.1
4	400 kV	TALCHER-I/C	2	0	989	0.0	9.7	-9.7
5	220 kV	BALIMELA-UPPER-SILERRU	1	1	0	0.0	0.0	0.0
					ER-SR	0.0	127.2	-127.2
Import/Export of ER (With NER)								
1	400 kV	BINAGURI-BONGAIGAON	2	269	42	2.3	0.0	2.3
2	400 kV	ALIPURDUAR-BONGAIGAON	2	434	34	3.8	0.0	3.8
3	220 kV	ALIPURDUAR-SALAKATI	2	51	1	0.5	0.0	0.5
					ER-NER	6.5	0.0	6.5
Import/Export of NER (With NR)								
1	HVDC	BISWANATH CHARIALI-AGRA	2	469	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	650	0.0	25.4	-25.4
2	HVDC	VINDHYACHAL B/B	-	240	0	6.0	0.0	6.0
3	HVDC	MUNDRA-MOHINDERGARH	2	0	1264	0.0	18.4	-18.4
4	765 kV	GWALIOR-AGRA	2	0	2291	0.0	39.2	-39.2
5	765 kV	PHAGI-GWALIOR	2	310	621	0.0	5.9	-5.9
6	765 kV	JABALPUR-ORAI	2	504	638	0.0	18.5	-18.5
7	765 kV	GWALIOR-ORAI	1	483	0	7.6	0.0	7.6
8	765 kV	SATNA-ORAI	1	0	1262	0.0	25.9	-25.9
9	765 kV	CHITORGARH-BANASKANTHA	2	1103	217	8.1	0.0	8.1
10	400 kV	ZERDA-KANKROLI	1	399	0	4.7	0.0	4.7
11	400 kV	ZERDA -BHINMAL	1	732	0	8.1	0.0	8.1
12	400 kV	VINDHYACHAL -RIHAND	1	974	0	21.5	0.0	21.5
13	400 kV	RAPP-SHUJALPUR	2	453	145	2.1	0.0	2.1
14	220 kV	BHANPURA-RANPUR	1	39	50	0.0	0.3	-0.3
15	220 kV	BHANPURA-MORAK	1	0	30	0.2	0.0	0.2
16	220 kV	MEHGAON-AURAIYA	1	116	0	0.5	0.0	0.5
17	220 kV	MALANPUR-AURAIYA	1	80	5	1.2	0.0	1.2
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	60.0	133.7	-73.7
Import/Export of WR (With SR)								
1	HVDC	BHADRAWATI B/B	-	0	1019	0.0	23.0	-23.0
2	HVDC	RAIGARH-PUGALUR	2	0	1512	0.0	70.8	-70.8
3	765 kV	SOLAPUR-RAICHUR	2	0	2272	0.0	37.1	-37.1
4	765 kV	WARDHA-NIZAMABAD	2	0	3519	0.0	68.2	-68.2
5	400 kV	KOLHAPUR-KUDGI	2	847	0	14.6	0.0	14.6
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	91	1.7	0.0	1.7
					WR-SR	16.3	199.1	-182.8

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)	154	112	115	2.8
	ER	400kV TALA-BINAGURI 1,2,4 (& 400kV MALBASE - BINAGURI) i.e. BINAGURI RECEIPT (from TALA HEP (6*170MW)	181	51	59	1.4
	ER	220kV CHUKHA-BIRPARA 1&2 (& 220kV MALBASE - BIRPARA) i.e. BIRPARA RECEIPT (from CHUKHA HEP 4*84MW)	0	0	0	-1.1
	NER	132KV-GEYLEGPHU - SALAKATI	51	1	2	0.1
	NER	132kV Motanga-Rangia	42	5	-7	-0.2
NEPAL	NR	132KV-TANAKPUR(NH) - MAHENDRANAGAR(PG)	0	0	0	0.0
	ER	400KV-MUZAFFARPUR - DHALKEBAR DC	-333	-249	-314	-7.5
	ER	132KV-BIHAR - NEPAL	-325	-94	-191	-4.6
BANGLADESH	ER	BHERAMARA HVDC(BANGLADESH)	-866	-859	-863	-20.7
	NER	132KV-SURAJMANI NAGAR - COMILLA(BANGLADESH)-1	86	0	-69	-1.7
	NER	132KV-SURAJMANI NAGAR - COMILLA(BANGLADESH)-2	86	0	-69	-1.7