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: 20th 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 19.04.2021.

महोदय/Dear Sir,

आई०ई०जी०सी०-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 19-अप्रैल-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 19th April 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:** **20-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 20:00 hrs; from RLDCs)	49984	53577	45779	22334	2611	174285
Peak Shortage (MW)	500	22	0	0	7	529
Energy Met (MU)	1029	1355	1095	470	41	3989
Hydro Gen (MU)	109	54	72	48	11	294
Wind Gen (MU)	12	74	73	-	-	159
Solar Gen (MU)*	44.46	39.23	111.42	5.64	0.18	201
Energy Shortage (MU)	11.05	0.90	0.00	0.00	0.04	11.99
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	50814	60284	51610	23116	2859	177097
Time Of Maximum Demand Met (From NLDC SCADA)	20:30	15:48	14:41	22:52	18:53	22:35

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	0.49	6.32	6.80	70.80	22.39

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	6264	0	127.4	60.4	-0.6	87	0.00
	Haryana	7478	88	136.6	97.7	0.0	276	0.45
	Rajasthan	10611	0	216.4	66.1	0.9	428	0.60
	Delhi	3788	0	79.9	64.7	-1.9	50	0.00
	UP	18840	0	347.0	106.7	-2.4	881	0.00
	Uttarakhand	1880	0	38.6	23.2	0.8	199	0.00
	HP	1475	0	29.3	18.3	0.0	125	0.00
	J&K(UT) & Ladakh(UT)	2632	500	50.4	40.1	0.7	298	10.00
	Chandigarh	193	0	3.9	3.9	-0.1	24	0.00
WR	Chhattisgarh	4468	0	116.9	53.6	9.1	215	0.90
	Gujarat	18920	0	397.5	121.9	0.4	783	0.00
	MP	10963	0	239.2	139.0	0.6	546	0.00
	Maharashtra	24911	0	546.7	172.9	-2.1	625	0.00
	Goa	561	0	12.0	11.8	-0.4	19	0.00
	DD	319	0	6.9	6.8	0.1	35	0.00
	DNH	796	0	18.5	18.3	0.2	45	0.00
	AMNSIL	782	0	17.1	3.7	0.3	246	0.00
SR	Andhra Pradesh	10351	0	209.8	99.4	0.7	503	0.00
	Telangana	10270	0	213.8	96.6	1.1	601	0.00
	Karnataka	12118	0	240.6	64.1	0.3	546	0.00
	Kerala	3985	0	81.4	58.4	0.9	260	0.00
	Tamil Nadu	15497	0	340.4	199.2	0.6	612	0.00
	Puducherry	442	0	9.1	9.4	-0.3	33	0.00
ER	Bihar	5658	0	103.0	93.8	0.3	807	0.00
	DVC	2972	0	67.1	-48.2	0.4	393	0.00
	Jharkhand	1625	0	29.5	22.5	-1.5	271	0.00
	Odisha	4835	0	96.8	42.8	-0.9	378	0.00
	West Bengal	8854	0	172.6	37.1	-0.6	591	0.00
	Sikkim	57	0	0.8	1.6	-0.8	72	0.00
NER	Arunachal Pradesh	128	2	2.1	2.3	-0.3	26	0.01
	Assam	1632	0	22.5	20.1	0.4	175	0.00
	Manipur	191	3	2.3	2.3	0.0	26	0.01
	Meghalaya	332	0	5.1	3.8	-0.1	56	0.00
	Mizoram	106	3	1.6	1.6	-0.1	11	0.01
	Nagaland	147	2	2.2	2.2	0.0	23	0.01
	Tripura	286	0	5.0	3.6	0.7	75	0.00

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

	Bhutan	Nepal	Bangladesh
Actual (MU)	7.1	-16.6	-21.0
Day Peak (MW)	389.0	-745.1	-902.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	198.7	-267.7	179.4	-118.4	8.0	0.0
Actual(MU)	188.2	-259.4	186.5	-125.4	6.6	-3.4
O/D/U/D(MU)	-10.5	8.4	7.1	-7.0	-1.4	-3.4

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL	% Share
Central Sector	4368	14678	7592	48	1310	27996	43
State Sector	12530	13612	5975	5113	11	37241	57
Total	16898	28290	13567	5161	1321	65236	100

G. Sourcewise generation (MU)

	NR	WR	SR	ER	NER	All India	% Share
Coal	582	1389	542	576	15	3103	76
Lignite	21	8	45	0	0	73	2
Hydro	109	54	72	48	11	294	7
Nuclear	31	16	43	0	0	89	2
Gas, Naptha & Diesel	38	42	11	0	13	104	3
RES (Wind, Solar, Biomass & Others)	81	113	216	6	0	416	10
Total	862	1621	928	629	40	4080	100

Share of RES in total generation (%)	9.39	6.98	23.28	0.90	0.45	10.19
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	25.70	11.26	35.62	8.52	28.48	19.59

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.065
Based on State Max Demands	1.098

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: 20-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	6.1	-6.1
3	765 kV	GAYA-VARANASI	2	0	691	0.0	11.9	-11.9
4	765 kV	SASARAM-FATEHPUR	1	0	344	0.0	4.6	-4.6
5	765 kV	GAYA-BALIA	1	0	433	0.0	7.7	-7.7
6	400 kV	PUSAULI-VARANASI	1	0	224	0.0	4.6	-4.6
7	400 kV	PUSAULI -ALLAHABAD	1	0	102	0.0	1.3	-1.3
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	0	526	0.0	7.7	-7.7
9	400 kV	PATNA-BALIA	4	0	955	0.0	18.4	-18.4
10	400 kV	BIHARSHARIFF-BALIA	2	0	269	0.0	4.5	-4.5
11	400 kV	MOTIHARI-GORAKHPUR	2	0	389	0.0	6.7	-6.7
12	400 kV	BIHARSHARIFF-VARANASI	2	0	262	0.0	3.8	-3.8
13	220 kV	PUSAULI-SAHUPURI	1	5	100	0.0	1.4	-1.4
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	0.4	78.6	-78.3
Import/Export of ER (With WR)								
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	1342	0	22.2	0.0	22.2
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	938	558	4.8	0.0	4.8
3	765 kV	JHARSUGUDA-DURG	2	90	194	0.0	1.1	-1.1
4	400 kV	JHARSUGUDA-RAIGARH	4	0	400	0.0	5.4	-5.4
5	400 kV	RANCHI-SIPAT	2	183	230	0.0	0.5	-0.5
6	220 kV	BUDHIPADAR-RAIGARH	1	0	154	0.0	2.6	-2.6
7	220 kV	BUDHIPADAR-KORBA	2	113	0	1.6	0.0	1.6
					ER-WR	28.6	9.6	19.0
Import/Export of ER (With SR)								
1	HVDC	JEYPORE-GAZUWAKA B/B	2	0	546	0.0	11.3	-11.3
2	HVDC	TALCHER-KOLAR BIPOLE	2	0	2479	0.0	48.7	-48.7
3	765 kV	ANGUL-SRIKAKULAM	2	0	3148	0.0	62.2	-62.2
4	400 kV	TALCHER-I/C	2	252	705	0.0	4.0	-4.0
5	220 kV	BALIMELA-UPPER-SILERRU	1	1	0	0.0	0.0	0.0
					ER-SR	0.0	122.2	-122.2
Import/Export of ER (With NER)								
1	400 kV	BINAGURI-BONGAIGAON	2	260	163	1.9	0.0	1.9
2	400 kV	ALIPURDUAR-BONGAIGAON	2	394	235	2.7	0.0	2.7
3	220 kV	ALIPURDUAR-SALAKATI	2	76	40	0.5	0.0	0.5
					ER-NER	5.1	0.0	5.1
Import/Export of NER (With NR)								
1	HVDC	BISWANATH CHARIALI-AGRA	2	494	0	11.8	0.0	11.8
					NER-NR	11.8	0.0	11.8
Import/Export of WR (With NR)								
1	HVDC	CHAMPA-KURUKSHETRA	2	0	0	0.0	23.8	-23.8
2	HVDC	VINDHYACHAL B/B	-	0	308	0.0	7.3	-7.3
3	HVDC	MUNDRA-MOHINDERGARH	2	0	1922	0.0	40.4	-40.4
4	765 kV	GWALIOR-AGRA	2	0	2373	0.0	37.2	-37.2
5	765 kV	PHAGI-GWALIOR	2	0	1822	0.0	32.4	-32.4
6	765 kV	JABALPUR-ORAI	2	659	947	0.0	27.9	-27.9
7	765 kV	GWALIOR-ORAI	1	879	0	15.2	0.0	15.2
8	765 kV	SATNA-ORAI	1	0	1284	0.0	25.0	-25.0
9	765 kV	CHITORGARH-BANASKANTHA	2	1520	0	18.7	0.0	18.7
10	400 kV	ZERDA-KANKROLI	1	352	0	5.1	0.0	5.1
11	400 kV	ZERDA -BHINMAL	1	531	0	6.6	0.0	6.6
12	400 kV	VINDHYACHAL -RIHAND	1	986	0	21.1	0.0	21.1
13	400 kV	RAPP-SHUJALPUR	2	214	400	0.6	3.7	-3.2
14	220 kV	BHANPURA-RANPUR	1	39	70	0.1	0.4	-0.2
15	220 kV	BHANPURA-MORAK	1	0	30	0.1	0.4	-0.3
16	220 kV	MEHGAON-AURAIYA	1	125	0	1.1	0.0	1.1
17	220 kV	MALANPUR-AURAIYA	1	90	0	1.8	0.0	1.8
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	70.3	198.4	-128.2
Import/Export of WR (With SR)								
1	HVDC	BHADRAWATI B/B	-	0	1016	0.0	18.9	-18.9
2	HVDC	RAIGARH-PUGALUR	2	0	3021	0.0	47.0	-47.0
3	765 kV	SOLAPUR-RAICHUR	2	1	2053	0.0	19.8	-19.8
4	765 kV	WARDHA-NIZAMABAD	2	0	2377	0.0	40.2	-40.2
5	400 kV	KOLHAPUR-KUDGI	2	801	6	12.1	0.0	12.1
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	116	2.0	0.0	2.0
					WR-SR	14.1	125.8	-111.7

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)	257	0	203	4.9
	ER	400kV TALA-BINAGURI 1,2,4 (& 400kV MALBASE - BINAGURI) i.e. BINAGURI RECEIPT (from TALA HEP (6*170MW)	133	92	115	2.8
	ER	220kV CHUKHA-BIRPARA 1&2 (& 220kV MALBASE - BIRPARA) i.e. BIRPARA RECEIPT (from CHUKHA HEP 4*84MW)	7	0	-24	-0.6
	NER	132KV-GEYLEGPHU - SALAKATI	-25	-8	15	0.3
	NER	132kV Motanga-Rangia	17	0	-5	-0.1
NEPAL	NR	132KV-TANAKPUR(NH) - MAHENDRANAGAR(PG)	-79	0	-70	-1.7
	ER	400KV-MUZAFFARPUR - DHALKEBAR DC	-344	-232	-326	-7.8
	ER	132KV-BIHAR - NEPAL	-322	-290	-294	-7.1
BANGLADESH	ER	BHERAMARA HVDC(BANGLADESH)	-742	-730	-732	-17.6
	NER	132KV-SURAJMANI NAGAR - COMILLA(BANGLADESH)-1	80	0	-71	-1.7
	NER	132KV-SURAJMANI NAGAR - COMILLA(BANGLADESH)-2	80	0	-71	-1.7