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 May 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 19.05.2021.

महोदय/Dear Sir,

आई०ई०जी०सी०-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 19-मई -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 May 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-May-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)	33513	41313	36854	22238	2627	136545
Peak Shortage (MW)	200	0	0	0	0	200
Energy Met (MU)	793	931	898	482	46	3150
Hydro Gen (MU)	179	44	77	74	20	394
Wind Gen (MU)	17	90	93	-	-	200
Solar Gen (MU)*	32.68	29.43	106.90	5.06	0.13	174
Energy Shortage (MU)	3.48	0.00	0.00	0.00	0.00	3.48
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	41214	41942	42505	22888	2849	137216
Time Of Maximum Demand Met (From NLDC SCADA)	00:06	22:56	12:37	21:16	19:15	19:43

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	0.041	0.00	0.56	9.74	10.30	74.70	15.00

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	7120	0	151.2	99.6	-0.6	260	0.00
	Haryana	5657	0	103.7	87.3	-2.6	312	0.00
	Rajasthan	5951	0	130.0	9.2	-6.0	413	0.00
	Delhi	3266	0	60.6	46.5	-0.5	209	0.03
	UP	15537	0	236.2	92.4	-10.2	338	0.00
	Uttarakhand	1690	0	32.3	15.6	-1.1	107	0.00
	HP	1340	0	27.0	8.2	0.8	191	0.00
	J&K(UT) & Ladakh(UT)	2437	250	48.2	31.8	0.2	371	3.45
	Chandigarh	181	0	3.9	4.3	-0.4	12	0.00
WR	Chhattisgarh	3698	0	88.0	41.0	-1.0	241	0.00
	Gujarat	10823	0	209.5	84.2	3.0	819	0.00
	MP	7430	0	159.8	58.7	-3.4	516	0.00
	Maharashtra	18930	0	428.0	130.1	-3.8	650	0.00
	Goa	467	0	9.3	7.8	1.5	55	0.00
	DD	275	0	5.6	5.3	0.3	34	0.00
	DNH	639	0	14.1	13.9	0.2	70	0.00
	AMNSIL	822	0	17.0	2.2	0.4	277	0.00
SR	Andhra Pradesh	9663	0	196.4	105.9	1.1	812	0.00
	Telangana	7398	0	155.0	58.7	-0.9	452	0.00
	Karnataka	9089	0	179.2	57.2	-0.2	620	0.00
	Kerala	2996	0	61.7	34.6	-0.2	239	0.00
	Tamil Nadu	13876	0	298.2	181.3	-0.5	481	0.00
	Puducherry	393	0	8.0	8.3	-0.3	23	0.00
ER	Bihar	5494	0	105.6	98.8	0.2	672	0.00
	DVC	3070	0	64.5	-42.1	-0.1	612	0.00
	Jharkhand	1571	0	27.0	23.7	-2.1	174	0.00
	Odisha	5859	0	124.6	55.7	-0.3	367	0.00
	West Bengal	8320	0	159.2	43.2	-0.7	281	0.00
	Sikkim	85	0	1.1	1.5	-0.4	48	0.00
NER	Arunachal Pradesh	112	0	2.1	2.1	0.1	8	0.00
	Assam	1593	0	26.1	21.5	0.7	155	0.00
	Manipur	201	1	2.5	2.4	0.1	36	0.00
	Meghalaya	323	0	5.6	3.1	-0.1	44	0.00
	Mizoram	104	0	1.7	1.7	0.0	35	0.00
	Nagaland	125	1	2.2	2.2	0.0	24	0.00
	Tripura	312	1	5.5	5.4	0.6	66	0.00

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

	Bhutan	Nepal	Bangladesh
Actual (MU)	16.1	-11.9	-24.3
Day Peak (MW)	762.0	-641.4	-1025.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	141.7	-238.9	158.4	-64.5	3.3	0.0
Actual(MU)	103.3	-250.0	175.4	-40.2	5.0	-6.7
O/D/U/D(MU)	-38.5	-11.2	17.0	24.3	1.7	-6.7

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL	% Share
Central Sector	5952	19631	10022	218	1043	36865	41
State Sector	14833	21494	12055	4705	11	53098	59
Total	20784	41125	22077	4923	1054	89963	100

G. Sourcewise generation (MU)

	NR	WR	SR	ER	NER	All India	% Share
Coal	391	959	327	471	7	2155	66
Lignite	20	10	35	0	0	65	2
Hydro	179	44	77	74	20	394	12
Nuclear	31	28	66	0	0	125	4
Gas, Naptha & Diesel	26	31	12	0	19	89	3
RES (Wind, Solar, Biomass & Others)	69	120	220	5	0	415	13
Total	717	1193	737	551	46	3243	100

Share of RES in total generation (%)	9.66	10.04	29.92	0.92	0.28	12.78
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	38.98	16.13	49.22	14.44	43.57	28.81

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.103
Based on State Max Demands	1.143

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-May-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	5.8	-5.8
3	765 kV	GAYA-VARANASI	2	235	439	0.0	0.5	-0.5
4	765 kV	SASARAM-FATEHPUR	1	174	116	1.1	0.0	1.1
5	765 kV	GAYA-BALIA	1	0	414	0.0	3.8	-3.8
6	400 kV	PUSAULI-VARANASI	1	0	238	0.0	5.2	-5.2
7	400 kV	PUSAULI -ALLAHABAD	1	0	69	0.0	0.8	-0.8
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	126	487	0.0	4.1	-4.1
9	400 kV	PATNA-BALIA	4	0	726	0.0	8.1	-8.1
10	400 kV	BIHARSHARIFF-BALIA	2	121	204	0.0	1.2	-1.2
11	400 kV	MOTIHARI-GORAKHPUR	2	15	316	0.0	3.1	-3.1
12	400 kV	BIHARSHARIFF-VARANASI	2	172	172	0.8	0.0	0.8
13	220 kV	PUSAULI-SAHUPURI	1	64	79	0.0	0.2	-0.2
14	132 kV	SONE NAGAR-RIHAND	1	0	0	0.0	0.0	0.0
15	132 kV	GARWAH-RIHAND	1	20	0	0.2	0.0	0.2
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	2.1	32.9	-30.7
Import/Export of ER (With WR)								
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	1715	0	28.4	0.0	28.4
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	986	0	15.9	0.0	15.9
3	765 kV	JHARSUGUDA-DURG	2	216	0	3.4	0.0	3.4
4	400 kV	JHARSUGUDA-RAIGARH	4	342	0	4.5	0.0	4.5
5	400 kV	RANCHI-SIPAT	2	268	0	4.1	0.0	4.1
6	220 kV	BUDHIPADAR-RAIGARH	1	3	92	0.0	1.0	-1.0
7	220 kV	BUDHIPADAR-KORBA	2	191	0	3.2	0.0	3.2
					ER-WR	59.5	1.0	58.6
Import/Export of ER (With SR)								
1	HVDC	JEYPORE-GAZUWAKA B/B	2	0	392	0.0	7.3	-7.3
2	HVDC	TALCHER-KOLAR BIPOLE	2	0	1637	0.0	39.5	-39.5
3	765 kV	ANGUL-SRIKAKULAM	2	0	3151	0.0	58.8	-58.8
4	400 kV	TALCHER-I/C	2	0	901	0.0	12.4	-12.4
5	220 kV	BALIMELA-UPPER-SILERRU	1	1	0	0.0	0.0	0.0
					ER-SR	0.0	105.6	-105.6
Import/Export of ER (With NER)								
1	400 kV	BINAGURI-BONGAIGAON	2	280	105	2.6	0.0	2.6
2	400 kV	ALIPURDUAR-BONGAIGAON	2	363	205	2.3	0.0	2.3
3	220 kV	ALIPURDUAR-SALAKATI	2	70	47	0.4	0.0	0.4
					ER-NER	5.2	0.0	5.2
Import/Export of NER (With NR)								
1	HVDC	BISWANATH CHARIALI-AGRA	2	467	0	9.7	0.0	9.7
					NER-NR	9.7	0.0	9.7
Import/Export of WR (With NR)								
1	HVDC	CHAMPA-KURUKSHETRA	2	0	2276	0.0	39.7	-39.7
2	HVDC	VINDHYACHAL B/B	-	0	203	0.0	2.9	-2.9
3	HVDC	MUNDRA-MOHINDERGARH	2	0	399	0.0	9.8	-9.8
4	765 kV	GWALIOR-AGRA	2	0	2523	0.0	36.2	-36.2
5	765 kV	PHAGI-GWALIOR	2	0	1041	0.0	14.6	-14.6
6	765 kV	JABALPUR-ORAI	2	443	746	0.0	19.1	-19.1
7	765 kV	GWALIOR-ORAI	1	407	0	7.6	0.0	7.6
8	765 kV	SATNA-ORAI	1	0	1364	0.0	25.7	-25.7
9	765 kV	CHITORGARH-BANASKANTHA	2	1024	0	13.3	0.0	13.3
10	400 kV	ZERDA-KANKROLI	1	300	0	2.5	0.0	2.5
11	400 kV	ZERDA -BHINMAL	1	443	0	5.5	0.0	5.5
12	400 kV	VINDHYACHAL -RIHAND	1	967	0	22.4	0.0	22.4
13	400 kV	RAPP-SHUJALPUR	2	115	265	0.6	1.2	-0.6
14	220 kV	BHANPURA-RANPUR	1	0	73	0.0	1.1	-1.1
15	220 kV	BHANPURA-MORAK	1	0	30	0.0	0.7	-0.7
16	220 kV	MEHGAON-AURAIYA	1	50	34	0.2	0.2	0.0
17	220 kV	MALANPUR-AURAIYA	1	33	46	0.4	0.1	0.3
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	52.5	151.3	-98.8
Import/Export of WR (With SR)								
1	HVDC	BHADRAWATI B/B	-	0	721	0.0	11.7	-11.7
2	HVDC	RAIGARH-PUGALUR	2	0	2007	0.0	32.5	-32.5
3	765 kV	SOLAPUR-RAICHUR	2	247	2203	0.1	23.1	-23.0
4	765 kV	WARDHA-NIZAMABAD	2	0	2452	0.0	37.8	-37.8
5	400 kV	KOLHAPUR-KUDGI	2	606	167	6.4	0.2	6.2
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	80	1.5	0.0	1.5
					WR-SR	8.0	105.3	-97.3

INTERNATIONAL EXCHANGES

Import(+ve)/Export(-ve)

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)	385	0	334	8.0
	ER	400kV TALA-BINAGURI 1,2,4 (& 400kV MALBASE - BINAGURI) i.e. BINAGURI RECEIPT (from TALA HEP (6*170MW)	307	232	241	5.8
	ER	220kV CHUKHA-BIRPARA 1&2 (& 220kV MALBASE - BIRPARA) i.e. BIRPARA RECEIPT (from CHUKHA HEP 4*84MW)	96	0	71	1.7
	NER	132KV-GEYLEGPHU - SALAKATI	16	1	5	0.1
	NER	132kV Motanga-Rangia	-42	-20	-30	-0.7
NEPAL	NR	132KV-TANAKPUR(NH) - MAHENDRANAGAR(PG)	-74	0	-64	-1.5
	ER	400KV-MUZAFFARPUR - DHALKEBAR DC	-383	-178	-335	-8.1
	ER	132KV-BIHAR - NEPAL	-184	-30	-95	-2.3
BANGLADESH	ER	BHERAMARA HVDC(BANGLADESH)	-866	0	-865	-20.8
	NER	132KV-SURAJMANI NAGAR - COMILLA(BANGLADESH)-1	-79	0	-74	-1.8
	NER	132KV-SURAJMANI NAGAR - COMILLA(BANGLADESH)-2	-80	0	-74	-1.8