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: 11th 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 10.05.2021.

महोदय/Dear Sir,

आई०ई०जी०सी०-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 10-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 10th 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:** **11-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)	47204	48064	39696	20299	2232	157495
Peak Shortage (MW)	200	0	0	0	5	205
Energy Met (MU)	1037	1215	972	413	44	3681
Hydro Gen (MU)	184	44	63	54	15	360
Wind Gen (MU)	17	86	21	-	-	124
Solar Gen (MU)*	47.25	40.24	96.67	5.11	0.20	189
Energy Shortage (MU)	3.45	0.00	0.00	0.00	0.04	3.49
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	49999	56055	45310	20406	2594	164514
Time Of Maximum Demand Met (From NLDC SCADA)	22:29	16:19	12:46	22:24	19:03	22:33

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	0.037	0.00	0.23	7.19	7.42	76.41	16.17

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	6746	0	145.5	81.3	-0.3	123	0.00
	Haryana	6885	0	134.5	106.6	-0.8	251	0.00
	Rajasthan	11024	66	223.2	73.3	1.0	731	0.00
	Delhi	3826	0	74.6	59.8	-2.1	16	0.00
	UP	18553	0	344.8	130.6	-2.6	654	0.00
	Uttarakhand	1616	0	34.8	14.8	0.3	169	0.00
	HP	1346	0	26.8	7.2	-0.1	96	0.00
	J&K(UT) & Ladakh(UT)	2575	250	49.0	33.0	-0.7	241	3.45
	Chandigarh	180	0	3.9	3.9	0.0	32	0.00
WR	Chhattisgarh	3535	0	72.3	19.3	0.1	370	0.00
	Gujarat	17667	0	373.0	130.4	-0.1	638	0.00
	MP	9478	0	210.2	127.1	-2.5	478	0.00
	Maharashtra	23156	0	508.9	150.5	-2.4	510	0.00
	Goa	511	0	10.8	10.5	-0.2	36	0.00
	DD	289	0	6.1	6.0	0.1	21	0.00
	DNH	686	0	15.8	15.8	0.0	45	0.00
	AMNSIL	853	0	17.8	1.5	0.1	251	0.00
SR	Andhra Pradesh	10252	0	207.4	130.1	1.6	872	0.00
	Telangana	7949	0	166.5	51.5	-0.1	324	0.00
	Karnataka	10296	0	196.8	62.8	0.3	728	0.00
	Kerala	3566	0	73.1	49.5	0.3	233	0.00
	Tamil Nadu	14335	0	319.2	215.6	-0.5	466	0.00
	Puducherry	435	0	8.8	9.1	-0.3	42	0.00
ER	Bihar	4950	0	88.5	85.0	-3.0	473	0.00
	DVC	2906	0	62.6	-46.3	-0.5	284	0.00
	Jharkhand	1386	0	25.3	21.9	-1.9	263	0.00
	Odisha	4706	0	93.3	21.3	0.6	469	0.00
	West Bengal	7277	0	142.5	33.0	-1.3	239	0.00
	Sikkim	68	0	1.0	1.3	-0.3	39	0.00
NER	Arunachal Pradesh	129	1	2.2	2.5	-0.4	12	0.01
	Assam	1373	0	26.4	21.3	-0.3	109	0.00
	Manipur	197	1	2.3	2.4	-0.1	18	0.01
	Meghalaya	291	0	5.7	4.1	-0.2	22	0.00
	Mizoram	108	2	1.4	1.7	-0.3	13	0.01
	Nagaland	133	1	2.2	2.3	-0.1	12	0.01
	Tripura	276	0	4.2	3.7	0.0	64	0.00

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

	Bhutan	Nepal	Bangladesh
Actual (MU)	13.1	-10.2	-23.7
Day Peak (MW)	701.0	-597.6	-1021.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	222.1	-249.7	151.2	-124.5	0.9	0.0
Actual(MU)	209.8	-246.8	168.1	-137.6	1.1	-5.4
O/D/U/D(MU)	-12.3	2.9	16.9	-13.1	0.2	-5.4

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL	% Share
Central Sector	4837	18197	7132	48	913	31127	44
State Sector	11863	14782	9035	4665	11	40356	56
Total	16699	32979	16167	4713	925	71483	100

G. Sourcewise generation (MU)

	NR	WR	SR	ER	NER	All India	% Share
Coal	498	1238	491	537	10	2774	73
Lignite	20	10	50	0	0	79	2
Hydro	184	44	63	54	15	360	9
Nuclear	31	16	63	0	0	110	3
Gas, Naptha & Diesel	27	49	13	0	24	113	3
RES (Wind, Solar, Biomass & Others)	87	127	140	5	0	359	9
Total	847	1484	819	596	49	3795	100

Share of RES in total generation (%)	10.30	8.55	17.05	0.86	0.41	9.47
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	35.67	12.59	32.45	9.87	31.28	21.85

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.060
Based on State Max Demands	1.091

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: 11-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	249	0.0	6.2	-6.2
3	765 kV	GAYA-VARANASI	2	0	791	0.0	12.8	-12.8
4	765 kV	SASARAM-FATEHPUR	1	0	344	0.0	5.0	-5.0
5	765 kV	GAYA-BALIA	1	0	404	0.0	6.4	-6.4
6	400 kV	PUSAULI-VARANASI	1	0	196	0.0	3.8	-3.8
7	400 kV	PUSAULI -ALLAHABAD	1	0	143	0.0	2.1	-2.1
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	0	787	0.0	10.2	-10.2
9	400 kV	PATNA-BALIA	4	0	1018	0.0	13.1	-13.1
10	400 kV	BIHARSHARIFF-BALIA	2	68	322	0.0	3.1	-3.1
11	400 kV	MOTIHARI-GORAKHPUR	2	0	464	0.0	8.4	-8.4
12	400 kV	BIHARSHARIFF-VARANASI	2	0	338	0.0	5.6	-5.6
13	220 kV	PUSAULI-SAHUPURI	1	10	112	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	0.5	0.0	0.5
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	0.5	78.0	-77.4
Import/Export of ER (With WR)								
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	811	280	3.8	0.0	3.8
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	592	556	3.1	0.0	3.1
3	765 kV	JHARSUGUDA-DURG	2	0	361	0.0	5.1	-5.1
4	400 kV	JHARSUGUDA-RAIGARH	4	37	251	0.0	2.1	-2.1
5	400 kV	RANCHI-SIPAT	2	167	101	0.5	0.0	0.5
6	220 kV	BUDHIPADAR-RAIGARH	1	0	104	0.0	1.5	-1.5
7	220 kV	BUDHIPADAR-KORBA	2	120	0	1.8	0.0	1.8
					ER-WR	9.2	8.6	0.6
Import/Export of ER (With SR)								
1	HVDC	JEYPORE-GAZUWAKA B/B	2	0	402	0.0	8.9	-8.9
2	HVDC	TALCHER-KOLAR BIPOLE	2	0	1982	0.0	41.8	-41.8
3	765 kV	ANGUL-SRIKAKULAM	2	0	3134	0.0	59.9	-59.9
4	400 kV	TALCHER-I/C	2	237	318	0.8	0.0	0.8
5	220 kV	BALIMELA-UPPER-SILERRU	1	1	0	0.0	0.0	0.0
					ER-SR	0.0	110.6	-110.6
Import/Export of ER (With NER)								
1	400 kV	BINAGURI-BONGAIGAON	2	285	115	1.1	0.0	1.1
2	400 kV	ALIPURDUAR-BONGAIGAON	2	403	197	0.4	0.0	0.4
3	220 kV	ALIPURDUAR-SALAKATI	2	65	58	0.0	0.2	-0.2
					ER-NER	1.6	0.2	1.4
Import/Export of NER (With NR)								
1	HVDC	BISWANATH CHARIALI-AGRA	2	477	3	2.5	0.0	2.5
					NER-NR	2.5	0.0	2.5
Import/Export of WR (With NR)								
1	HVDC	CHAMPA-KURUKSHETRA	2	0	2009	0.0	47.1	-47.1
2	HVDC	VINDHYACHAL B/B	-	84	104	1.1	1.3	-0.2
3	HVDC	MUNDRA-MOHINDERGARH	2	0	982	0.0	24.3	-24.3
4	765 kV	GWALIOR-AGRA	2	0	2305	0.0	37.9	-37.9
5	765 kV	PHAGI-GWALIOR	2	0	1871	0.0	32.8	-32.8
6	765 kV	JABALPUR-ORAI	2	654	743	0.0	26.2	-26.2
7	765 kV	GWALIOR-ORAI	1	792	0	13.7	0.0	13.7
8	765 kV	SATNA-ORAI	1	0	1356	0.0	28.8	-28.8
9	765 kV	CHITORGARH-BANASKANTHA	2	1226	9	14.6	0.0	14.6
10	400 kV	ZERDA-KANKROLI	1	276	0	4.1	0.0	4.1
11	400 kV	ZERDA -BHINMAL	1	332	3	5.2	0.0	5.2
12	400 kV	VINDHYACHAL -RIHAND	1	969	0	22.2	0.0	22.2
13	400 kV	RAPP-SHUJALPUR	2	0	348	0.0	4.2	-4.2
14	220 kV	BHANPURA-RANPUR	1	0	139	0.0	1.6	-1.6
15	220 kV	BHANPURA-MORAK	1	0	30	0.0	1.0	-1.0
16	220 kV	MEHGAON-AURAIYA	1	99	47	0.2	0.0	0.2
17	220 kV	MALANPUR-AURAIYA	1	68	38	0.7	0.1	0.7
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	61.8	205.0	-143.3
Import/Export of WR (With SR)								
1	HVDC	BHADRAWATI B/B	-	0	820	0.0	17.5	-17.5
2	HVDC	RAIGARH-PUGALUR	2	0	2515	0.0	44.8	-44.8
3	765 kV	SOLAPUR-RAICHUR	2	744	1770	0.0	15.3	-15.3
4	765 kV	WARDHA-NIZAMABAD	2	0	2115	0.0	31.4	-31.4
5	400 kV	KOLHAPUR-KUDGI	2	570	60	4.8	0.0	4.8
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	1	87	1.8	0.0	1.8
					WR-SR	6.5	108.9	-102.4

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)	296	0	243	5.8
	ER	400kV TALA-BINAGURI 1,2,4 (& 400kV MALBASE - BINAGURI) i.e. BINAGURI RECEIPT (from TALA HEP (6*170MW)	334	222	243	5.8
	ER	220kV CHUKHA-BIRPARA 1&2 (& 220kV MALBASE - BIRPARA) i.e. BIRPARA RECEIPT (from CHUKHA HEP 4*84MW)	91	44	48	1.2
	NER	132KV-GEYLEGPHU - SALAKATI	12	3	7	0.2
	NER	132kV Motanga-Rangia	-32	-11	-21	-0.5
NEPAL	NR	132KV-TANAKPUR(NH) - MAHENDRANAGAR(PG)	-77	0	-66	-1.6
	ER	400KV-MUZAFFARPUR - DHALKEBAR DC	-316	-176	-276	-6.6
	ER	132KV-BIHAR - NEPAL	-205	-1	-85	-2.0
BANGLADESH	ER	BHERAMARA HVDC(BANGLADESH)	-862	0	-858	-20.6
	NER	132KV-SURAJMANI NAGAR - COMILLA(BANGLADESH)-1	-80	0	-65	-1.6
	NER	132KV-SURAJMANI NAGAR - COMILLA(BANGLADESH)-2	-79	0	-65	-1.6