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, क़ुतुब इन्स्टीट्यूशनल एरिया, कटवारिया सराये, न्यू दिल्ली-110016

Ref: POSOCO/NLDC/SO/Daily PSP Report

दिनांक: 21th 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 20.05.2021.

महोदय/Dear Sir,

आई०ई०जी०सी०-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 20-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 20th 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:** **21-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)	39529	44448	35708	21152	2224	143061
Peak Shortage (MW)	200	0	0	0	1	201
Energy Met (MU)	784	1030	873	455	43	3185
Hydro Gen (MU)	198	56	73	82	20	430
Wind Gen (MU)	31	85	95	-	-	212
Solar Gen (MU)*	45.55	38.18	92.02	4.76	0.18	181
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)	40918	45268	40131	22491	2474	145077
Time Of Maximum Demand Met (From NLDC SCADA)	20:36	22:44	11:56	00:02	18:39	22:29

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	1.46	3.73	5.18	67.18	27.64

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	7073	0	156.5	105.6	-0.7	193	0.00
	Haryana	5702	0	102.3	82.9	-0.4	276	0.00
	Rajasthan	7732	0	158.1	15.2	-2.1	499	0.00
	Delhi	2693	0	55.2	47.8	-1.0	84	0.00
	UP	13609	0	211.0	93.1	-8.2	676	0.00
	Uttarakhand	1347	0	25.7	11.1	-2.2	190	0.00
	HP	1334	0	26.1	6.9	0.2	128	0.00
	J&K(UT) & Ladakh(UT)	2358	250	45.8	28.8	-1.4	237	3.45
	Chandigarh	183	0	3.8	4.3	-0.4	5	0.00
WR	Chhattisgarh	3605	0	83.3	36.5	-1.4	120	0.00
	Gujarat	13080	0	276.3	108.0	2.3	749	0.00
	MP	8193	0	173.3	83.8	-1.9	408	0.00
	Maharashtra	19383	0	446.5	140.3	-2.3	550	0.00
	Goa	511	0	10.3	8.9	1.2	43	0.00
	DD	279	0	6.2	6.1	0.1	44	0.00
	DNH	648	0	14.6	14.5	0.1	70	0.00
	AMNSIL	879	0	19.4	1.7	0.4	289	0.00
SR	Andhra Pradesh	8927	0	184.8	96.8	-0.3	1049	0.00
	Telangana	6882	0	149.0	54.6	-0.4	457	0.00
	Karnataka	8942	0	180.3	70.1	0.9	767	0.00
	Kerala	3192	0	62.5	35.1	0.4	314	0.00
	Tamil Nadu	12995	0	288.9	162.4	-2.8	542	0.00
	Puducherry	349	0	7.4	7.9	-0.6	65	0.00
ER	Bihar	4892	0	77.1	73.1	-0.4	461	0.00
	DVC	3048	0	63.6	-37.5	-0.3	255	0.00
	Jharkhand	1450	0	24.3	23.2	-4.3	233	0.00
	Odisha	5711	0	122.6	55.2	0.0	435	0.00
	West Bengal	8277	0	166.1	52.8	1.7	394	0.00
	Sikkim	94	0	1.5	1.6	-0.1	62	0.00
NER	Arunachal Pradesh	94	0	1.7	2.1	-0.3	1	0.01
	Assam	1310	0	24.4	20.8	-0.5	144	0.00
	Manipur	204	1	2.3	2.6	-0.3	20	0.01
	Meghalaya	262	0	5.3	3.1	-0.1	56	0.00
	Mizoram	102	0	1.6	1.7	-0.1	15	0.01
	Nagaland	109	1	2.2	2.2	0.0	20	0.01
	Tripura	312	0	5.4	5.1	0.3	50	0.00

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

	Bhutan	Nepal	Bangladesh
Actual (MU)	21.7	-6.0	-25.4
Day Peak (MW)	1145.0	-279.0	-1112.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	136.9	-203.4	130.7	-67.4	3.2	0.0
Actual(MU)	82.0	-177.0	145.7	-55.2	0.9	-3.6
O/D/U/D(MU)	-54.9	26.3	15.0	12.2	-2.3	-3.6

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL	% Share
Central Sector	6452	20371	9122	243	1259	37447	42
State Sector	15043	20349	11968	4815	11	52186	58
Total	21494	40720	21090	5058	1271	89632	100

G. Sourcewise generation (MU)

	NR	WR	SR	ER	NER	All India	% Share
Coal	353	972	347	452	6	2129	65
Lignite	20	11	36	0	0	68	2
Hydro	198	56	73	82	20	430	13
Nuclear	32	28	66	0	0	125	4
Gas, Naptha & Diesel	16	31	12	0	22	81	2
RES (Wind, Solar, Biomass & Others)	95	124	207	5	0	430	13
Total	714	1222	741	539	48	3264	100

Share of RES in total generation (%)	13.31	10.11	27.90	0.88	0.38	13.18
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	45.53	17.01	46.60	16.18	42.79	30.20

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.043
Based on State Max Demands	1.074

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: 21-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	309	420	0.0	0.7	-0.7
4	765 kV	SASARAM-FATEHPUR	1	123	231	0.0	1.2	-1.2
5	765 kV	GAYA-BALIA	1	65	337	0.0	1.4	-1.4
6	400 kV	PUSAULI-VARANASI	1	0	233	0.0	4.7	-4.7
7	400 kV	PUSAULI -ALLAHABAD	1	0	95	0.0	1.3	-1.3
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	2	621	0.0	6.9	-6.9
9	400 kV	PATNA-BALIA	4	0	718	0.0	9.3	-9.3
10	400 kV	BIHARSHARIFF-BALIA	2	74	263	0.0	2.4	-2.4
11	400 kV	MOTIHARI-GORAKHPUR	2	0	340	0.0	3.7	-3.7
12	400 kV	BIHARSHARIFF-VARANASI	2	191	179	0.4	0.0	0.4
13	220 kV	PUSAULI-SAHUPURI	1	86	60	0.0	0.3	-0.3
14	132 kV	SONE NAGAR-RIHAND	1	0	0	0.0	0.0	0.0
15	132 kV	GARWAH-RIHAND	1	20	0	0.1	0.0	0.1
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	37.9	-37.4
Import/Export of ER (With WR)								
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	1299	0	20.5	0.0	20.5
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	801	136	9.0	0.0	9.0
3	765 kV	JHARSUGUDA-DURG	2	131	61	1.4	0.0	1.4
4	400 kV	JHARSUGUDA-RAIGARH	4	238	78	2.3	0.0	2.3
5	400 kV	RANCHI-SIPAT	2	202	59	2.2	0.0	2.2
6	220 kV	BUDHIPADAR-RAIGARH	1	9	81	0.0	0.9	-0.9
7	220 kV	BUDHIPADAR-KORBA	2	178	0	2.6	0.0	2.6
					ER-WR	38.0	0.9	37.2
Import/Export of ER (With SR)								
1	HVDC	JEYPORE-GAZUWAKA B/B	2	0	283	0.0	6.1	-6.1
2	HVDC	TALCHER-KOLAR BIPOLE	2	0	1634	0.0	39.5	-39.5
3	765 kV	ANGUL-SRIKAKULAM	2	0	2779	0.0	50.7	-50.7
4	400 kV	TALCHER-I/C	2	258	896	0.0	9.3	-9.3
5	220 kV	BALIMELA-UPPER-SILERRU	1	1	0	0.0	0.0	0.0
					ER-SR	0.0	96.4	-96.4
Import/Export of ER (With NER)								
1	400 kV	BINAGURI-BONGAIGAON	2	224	0	3.3	0.0	3.3
2	400 kV	ALIPURDUAR-BONGAIGAON	2	248	91	2.1	0.0	2.1
3	220 kV	ALIPURDUAR-SALAKATI	2	42	24	0.2	0.0	0.2
					ER-NER	5.7	0.0	5.7
Import/Export of NER (With NR)								
1	HVDC	BISWANATH CHARIALI-AGRA	2	288	0	7.0	0.0	7.0
					NER-NR	7.0	0.0	7.0
Import/Export of WR (With NR)								
1	HVDC	CHAMPA-KURUKSHETRA	2	0	1760	0.0	23.0	-23.0
2	HVDC	VINDHYACHAL B/B	-	0	203	0.0	4.8	-4.8
3	HVDC	MUNDRA-MOHINDERGARH	2	0	399	0.0	9.8	-9.8
4	765 kV	GWALIOR-AGRA	2	0	1911	0.0	28.3	-28.3
5	765 kV	PHAGI-GWALIOR	2	119	846	0.3	13.2	-12.9
6	765 kV	JABALPUR-ORAI	2	429	630	0.0	14.3	-14.3
7	765 kV	GWALIOR-ORAI	1	636	0	8.6	0.0	8.6
8	765 kV	SATNA-ORAI	1	0	1257	0.0	23.0	-23.0
9	765 kV	CHITORGARH-BANASKANTHA	2	1103	108	12.6	0.0	12.6
10	400 kV	ZERDA-KANKROLI	1	313	0	4.5	0.0	4.5
11	400 kV	ZERDA -BHINMAL	1	526	0	9.6	0.0	9.6
12	400 kV	VINDHYACHAL -RIHAND	1	961	0	20.8	0.0	20.8
13	400 kV	RAPP-SHUJALPUR	2	271	149	1.9	0.5	1.3
14	220 kV	BHANPURA-RANPUR	1	0	60	0.0	1.0	-1.0
15	220 kV	BHANPURA-MORAK	1	0	30	0.0	0.7	-0.7
16	220 kV	MEHGAON-AURAIYA	1	83	0	0.6	0.0	0.6
17	220 kV	MALANPUR-AURAIYA	1	59	4	1.0	0.0	1.0
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	59.8	118.6	-58.8
Import/Export of WR (With SR)								
1	HVDC	BHADRAWATI B/B	-	0	715	0.0	16.8	-16.8
2	HVDC	RAIGARH-PUGALUR	2	0	2008	0.0	43.9	-43.9
3	765 kV	SOLAPUR-RAICHUR	2	1219	1203	5.6	9.6	-4.0
4	765 kV	WARDHA-NIZAMABAD	2	41	1722	0.0	25.5	-25.5
5	400 kV	KOLHAPUR-KUDGI	2	631	10	7.6	0.0	7.6
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	76	1.3	0.0	1.3
					WR-SR	14.5	95.8	-81.3

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)	568	0	460	11.1
	ER	400kV TALA-BINAGURI 1,2,4 (& 400kV MALBASE - BINAGURI) i.e. BINAGURI RECEIPT (from TALA HEP (6*170MW)	431	249	340	8.2
	ER	220kV CHUKHA-BIRPARA 1&2 (& 220kV MALBASE - BIRPARA) i.e. BIRPARA RECEIPT (from CHUKHA HEP 4*84MW)	125	0	80	1.9
	NER	132KV-GEYLEGPHU - SALAKATI	-16	0	6	0.1
	NER	132kV Motanga-Rangia	37	30	-30	-0.7
NEPAL	NR	132KV-TANAKPUR(NH) - MAHENDRANAGAR(PG)	-68	0	-32	-0.8
	ER	400KV-MUZAFFARPUR - DHALKEBAR DC	248	54	-209	-5.0
	ER	132KV-BIHAR - NEPAL	-37	-1	-8	-0.2
BANGLADESH	ER	BHERAMARA HVDC(BANGLADESH)	-936	-866	-902	-21.7
	NER	132KV-SURAJMANI NAGAR - COMILLA(BANGLADESH)-1	-88	0	-78	-1.9
	NER	132KV-SURAJMANI NAGAR - COMILLA(BANGLADESH)-2	-88	0	-78	-1.9