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: 19th 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 18.05.2021.

महोदय/Dear Sir,

आई०ई०जी०सी०-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 18–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 18th 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:** **19-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)	43221	36479	37514	21876	2328	141418
Peak Shortage (MW)	200	0	0	0	3	203
Energy Met (MU)	993	895	895	475	43	3300
Hydro Gen (MU)	185	45	69	60	15	375
Wind Gen (MU)	35	131	108	-	-	274
Solar Gen (MU)*	24.38	18.16	111.92	5.01	0.12	160
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)	48486	38588	40821	22179	2723	146858
Time Of Maximum Demand Met (From NLDC SCADA)	00:01	00:00	12:45	21:11	19:00	00:01

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	0.044	0.00	1.46	4.51	5.97	72.28	21.75

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	6922	0	154.2	98.1	-0.2	144	0.00
	Haryana	6797	0	142.4	119.2	-1.1	158	0.00
	Rajasthan	8612	0	174.5	37.7	-5.7	346	0.00
	Delhi	4161	0	74.1	58.9	-1.1	118	0.00
	UP	17559	0	330.1	137.1	-2.7	460	0.00
	Uttarakhand	1649	0	37.0	18.2	0.7	171	0.00
	HP	1342	0	26.8	8.4	0.5	120	0.00
	J&K(UT) & Ladakh(UT)	2549	250	49.6	33.3	0.5	377	3.45
	Chandigarh	199	0	4.4	4.5	-0.1	32	0.00
WR	Chhattisgarh	3779	0	88.8	44.1	0.1	257	0.00
	Gujarat	9125	0	179.3	23.5	3.2	911	0.00
	MP	8024	0	177.6	89.5	-2.0	457	0.00
	Maharashtra	18020	0	414.2	129.0	-2.4	669	0.00
	Goa	351	0	6.1	6.2	-0.3	51	0.00
	DD	199	0	4.3	4.4	-0.1	27	0.00
	DNH	506	0	10.2	10.0	0.2	74	0.00
	AMNSIL	773	0	14.1	3.7	-0.6	300	0.00
SR	Andhra Pradesh	9289	0	193.3	97.3	3.2	1304	0.00
	Telangana	7258	0	151.5	51.8	-0.7	351	0.00
	Karnataka	8944	0	176.7	58.4	-0.7	522	0.00
	Kerala	3118	0	61.3	36.1	-0.2	344	0.00
	Tamil Nadu	13797	0	303.8	177.1	-1.0	498	0.00
	Puducherry	382	0	8.1	8.2	-0.2	40	0.00
ER	Bihar	5447	0	107.4	99.3	3.3	670	0.00
	DVC	2906	0	62.2	-45.8	-0.3	313	0.00
	Jharkhand	1463	0	28.4	24.3	-1.5	184	0.00
	Odisha	5983	0	111.7	45.7	-0.3	439	0.00
	West Bengal	8345	0	164.7	45.1	-1.8	364	0.00
	Sikkim	66	0	1.0	1.6	-0.6	10	0.00
NER	Arunachal Pradesh	100	1	2.0	2.1	-0.1	125	0.01
	Assam	1441	0	23.7	20.1	0.1	124	0.00
	Manipur	189	1	2.5	2.4	0.0	33	0.01
	Meghalaya	327	0	5.7	3.5	0.0	50	0.00
	Mizoram	109	1	1.6	1.7	-0.1	16	0.01
	Nagaland	124	1	2.2	2.1	0.0	10	0.01
	Tripura	318	0	5.1	5.3	0.5	64	0.00

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

	Bhutan	Nepal	Bangladesh
Actual (MU)	14.2	-12.5	-24.2
Day Peak (MW)	672.0	-603.9	-1028.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	246.0	-307.6	126.4	-69.0	4.2	0.0
Actual(MU)	218.4	-333.8	141.4	-39.7	6.2	-7.5
O/D/U/D(MU)	-27.6	-26.2	15.0	29.3	2.1	-7.5

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL	% Share
Central Sector	5952	19031	10232	218	1068	36500	41
State Sector	13648	21507	12475	5285	11	52926	59
Total	19599	40538	22707	5503	1079	89426	100

G. Sourcewise generation (MU)

	NR	WR	SR	ER	NER	All India	% Share
Coal	449	983	343	471	7	2252	67
Lignite	19	7	39	0	0	66	2
Hydro	185	45	69	60	15	375	11
Nuclear	31	28	66	0	0	125	4
Gas, Naptha & Diesel	30	27	12	0	20	89	3
RES (Wind, Solar, Biomass & Others)	77	150	237	5	0	469	14
Total	791	1240	766	536	43	3376	100

Share of RES in total generation (%)	9.78	12.08	30.94	0.94	0.28	13.90
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	37.08	18.01	48.55	12.19	36.38	28.72

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.040
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: 19-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	6.0	-6.0
3	765 kV	GAYA-VARANASI	2	137	495	0.0	4.4	-4.4
4	765 kV	SASARAM-FATEHPUR	1	175	128	0.9	0.0	0.9
5	765 kV	GAYA-BALIA	1	0	517	0.0	7.6	-7.6
6	400 kV	PUSAULI-VARANASI	1	0	250	0.0	4.9	-4.9
7	400 kV	PUSAULI -ALLAHABAD	1	0	75	0.0	0.8	-0.8
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	52	453	0.0	4.4	-4.4
9	400 kV	PATNA-BALIA	4	0	709	0.0	10.1	-10.1
10	400 kV	BIHARSHARIFF-BALIA	2	87	184	0.0	1.5	-1.5
11	400 kV	MOTIHARI-GORAKHPUR	2	0	317	0.0	3.9	-3.9
12	400 kV	BIHARSHARIFF-VARANASI	2	115	195	0.0	0.8	-0.8
13	220 kV	PUSAULI-SAHUPURI	1	69	123	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	1.0	44.4	-43.4
Import/Export of ER (With WR)								
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	2001	0	25.7	0.0	25.7
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	1423	0	22.9	0.0	22.9
3	765 kV	JHARSUGUDA-DURG	2	341	0	5.4	0.0	5.4
4	400 kV	JHARSUGUDA-RAIGARH	4	439	0	5.9	0.0	5.9
5	400 kV	RANCHI-SIPAT	2	420	0	6.7	0.0	6.7
6	220 kV	BUDHIPADAR-RAIGARH	1	39	67	0.0	0.2	-0.2
7	220 kV	BUDHIPADAR-KORBA	2	220	0	3.7	0.0	3.7
					ER-WR	70.1	0.2	69.9
Import/Export of ER (With SR)								
1	HVDC	JEYPORE-GAZUWAKA B/B	2	0	392	0.0	8.7	-8.7
2	HVDC	TALCHER-KOLAR BIPOLE	2	0	1985	0.0	43.2	-43.2
3	765 kV	ANGUL-SRIKAKULAM	2	0	2990	0.0	51.1	-51.1
4	400 kV	TALCHER-I/C	2	0	1238	0.0	17.5	-17.5
5	220 kV	BALIMELA-UPPER-SILERRU	1	1	0	0.0	0.0	0.0
					ER-SR	0.0	103.0	-103.0
Import/Export of ER (With NER)								
1	400 kV	BINAGURI-BONGAIGAON	2	233	2	2.4	0.0	2.4
2	400 kV	ALIPURDUAR-BONGAIGAON	2	298	52	2.0	0.0	2.0
3	220 kV	ALIPURDUAR-SALAKATI	2	55	18	0.3	0.0	0.3
					ER-NER	4.7	0.0	4.7
Import/Export of NER (With NR)								
1	HVDC	BISWANATH CHARIALI-AGRA	2	466	0	10.6	0.0	10.6
					NER-NR	10.6	0.0	10.6
Import/Export of WR (With NR)								
1	HVDC	CHAMPA-KURUKSHETRA	2	0	3529	0.0	58.8	-58.8
2	HVDC	VINDHYACHAL B/B	-	203	54	0.4	1.1	-0.7
3	HVDC	MUNDRA-MOHINDERGARH	2	0	594	0.0	13.3	-13.3
4	765 kV	GWALIOR-AGRA	2	0	2866	0.0	53.8	-53.8
5	765 kV	PHAGI-GWALIOR	2	0	1168	0.0	18.5	-18.5
6	765 kV	JABALPUR-ORAI	2	501	904	0.0	30.6	-30.6
7	765 kV	GWALIOR-ORAI	1	472	0	8.0	0.0	8.0
8	765 kV	SATNA-ORAI	1	0	1480	0.0	30.3	-30.3
9	765 kV	CHITORGARH-BANASKANTHA	2	246	1042	0.0	14.4	-14.4
10	400 kV	ZERDA-KANKROLI	1	2	116	0.0	1.2	-1.2
11	400 kV	ZERDA -BHINMAL	1	225	104	1.1	0.0	1.1
12	400 kV	VINDHYACHAL -RIHAND	1	968	0	22.7	0.0	22.7
13	400 kV	RAPP-SHUJALPUR	2	80	354	0.0	3.7	-3.7
14	220 kV	BHANPURA-RANPUR	1	0	88	0.0	1.2	-1.2
15	220 kV	BHANPURA-MORAK	1	0	30	0.0	0.8	-0.8
16	220 kV	MEHGAON-AURAIYA	1	24	42	0.0	0.7	-0.7
17	220 kV	MALANPUR-AURAIYA	1	4	53	0.3	0.4	-0.1
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	32.6	228.7	-196.2
Import/Export of WR (With SR)								
1	HVDC	BHADRAWATI B/B	-	216	316	4.8	0.4	4.4
2	HVDC	RAIGARH-PUGALUR	2	0	2007	0.0	21.8	-21.8
3	765 kV	SOLAPUR-RAICHUR	2	721	2152	0.0	18.6	-18.6
4	765 kV	WARDHA-NIZAMABAD	2	0	2571	0.0	37.0	-37.0
5	400 kV	KOLHAPUR-KUDGI	2	637	180	5.6	0.0	5.6
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	12.1	77.8	-65.7

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)	345	0	316	7.6
	ER	400kV TALA-BINAGURI 1,2,4 (& 400kV MALBASE - BINAGURI) i.e. BINAGURI RECEIPT (from TALA HEP (6*170MW)	223	0	211	5.1
	ER	220kV CHUKHA-BIRPARA 1&2 (& 220kV MALBASE - BIRPARA) i.e. BIRPARA RECEIPT (from CHUKHA HEP 4*84MW)	92	0	63	1.5
	NER	132KV-GEYLEGPHU - SALAKATI	-16	-1	-6	-0.1
	NER	132kV Motanga-Rangia	29	13	20	0.5
NEPAL	NR	132KV-TANAKPUR(NH) - MAHENDRANAGAR(PG)	-78	0	-68	-1.6
	ER	400KV-MUZAFFARPUR - DHALKEBAR DC	-348	-275	-329	-7.9
	ER	132KV-BIHAR - NEPAL	178	13	-125	-3.0
BANGLADESH	ER	BHERAMARA HVDC(BANGLADESH)	-864	0	-860	-20.6
	NER	132KV-SURAJMANI NAGAR - COMILLA(BANGLADESH)-1	-82	0	-73	-1.8
	NER	132KV-SURAJMANI NAGAR - COMILLA(BANGLADESH)-2	-82	0	-73	-1.8