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: 23rd 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 22.05.2021.

महोदय/Dear Sir,

आई०ई०जी०सी०-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 22-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 22nd 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:** **23-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)	43272	46128	35213	22555	2801	149969
Peak Shortage (MW)	470	0	0	0	4	474
Energy Met (MU)	903	1114	816	483	50	3366
Hydro Gen (MU)	208	61	77	85	19	450
Wind Gen (MU)	23	106	89	-	-	218
Solar Gen (MU)*	40.35	38.77	86.07	5.34	0.23	171
Energy Shortage (MU)	3.80	0.00	0.00	0.00	0.06	3.86
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	44653	48132	36594	23756	3053	150731
Time Of Maximum Demand Met (From NLDC SCADA)	20:25	15:41	12:20	23:40	19:43	22:39

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	1.35	8.38	9.73	76.58	13.69

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	6824	0	155.2	104.2	-0.8	61	0.00
	Haryana	5803	0	108.3	89.1	-1.3	463	0.00
	Rajasthan	8676	0	176.2	40.4	-3.1	400	0.00
	Delhi	2913	0	58.4	48.7	-0.7	92	0.00
	UP	17174	0	289.4	140.2	-0.8	766	0.35
	Uttarakhand	1543	0	32.6	13.6	0.4	139	0.00
	HP	1343	0	27.2	7.6	1.2	269	0.00
	J&K(UT) & Ladakh(UT)	2269	200	51.4	30.1	0.9	239	3.45
	Chandigarh	197	0	3.8	3.8	0.0	28	0.00
WR	Chhattisgarh	3765	0	86.8	35.4	-0.7	145	0.00
	Gujarat	14128	0	311.3	129.6	3.4	898	0.00
	MP	8874	0	197.5	105.7	-2.8	819	0.00
	Maharashtra	20535	0	466.1	149.4	-4.3	770	0.00
	Goa	548	0	10.7	9.1	1.1	48	0.00
	DD	280	0	6.3	6.1	0.2	27	0.00
	DNH	679	0	15.7	15.4	0.3	46	0.00
	AMNSIL	885	0	19.7	1.9	0.4	299	0.00
SR	Andhra Pradesh	7490	0	160.4	75.8	-1.7	514	0.00
	Telangana	7102	0	151.7	58.6	-0.3	522	0.00
	Karnataka	8405	0	172.6	60.1	-0.2	408	0.00
	Kerala	3025	0	61.3	31.9	-0.1	353	0.00
	Tamil Nadu	12008	0	262.8	151.9	-1.7	888	0.00
	Puducherry	330	0	6.7	7.1	-0.4	25	0.00
ER	Bihar	6075	0	110.2	101.3	3.9	562	0.00
	DVC	3076	0	64.7	-38.3	0.6	536	0.00
	Jharkhand	1606	0	27.2	22.9	-1.4	267	0.00
	Odisha	5210	0	112.8	42.0	-1.0	367	0.00
	West Bengal	8943	0	167.0	49.7	0.6	372	0.00
	Sikkim	99	0	1.5	1.5	0.0	32	0.00
NER	Arunachal Pradesh	94	1	1.7	2.0	-0.3	31	0.01
	Assam	1782	0	30.8	25.6	0.2	181	0.00
	Manipur	202	2	2.6	2.6	0.0	31	0.03
	Meghalaya	308	0	5.1	2.7	-0.2	35	0.00
	Mizoram	105	0	1.7	1.8	-0.1	15	0.01
	Nagaland	117	1	2.2	2.3	-0.1	23	0.01
	Tripura	333	0	5.9	5.3	0.7	68	0.00

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

	Bhutan	Nepal	Bangladesh
Actual (MU)	17.0	-7.3	-26.2
Day Peak (MW)	828.0	-489.0	-1115.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	208.2	-205.3	73.0	-82.8	6.9	0.0
Actual(MU)	175.0	-195.7	74.7	-70.8	8.0	-8.7
O/D/U/D(MU)	-33.2	9.5	1.7	12.1	1.1	-8.7

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL	% Share
Central Sector	6942	20373	8622	0	1022	36958	41
State Sector	14383	20379	12575	5385	11	52733	59
Total	21324	40752	21197	5385	1033	89691	100

G. Sourcewise generation (MU)

	NR	WR	SR	ER	NER	All India	% Share
Coal	377	1056	358	493	6	2291	67
Lignite	23	11	43	0	0	77	2
Hydro	208	61	77	85	19	450	13
Nuclear	31	33	66	0	0	130	4
Gas, Naptha & Diesel	17	23	13	0	23	76	2
RES (Wind, Solar, Biomass & Others)	83	144	189	5	0	422	12
Total	739	1329	746	583	48	3445	100

Share of RES in total generation (%)	11.18	10.87	25.38	0.92	0.48	12.25
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	43.57	17.94	44.53	15.42	39.32	29.07

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.036
Based on State Max Demands	1.080

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: 23-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	665	0.0	8.4	-8.4
4	765 kV	SASARAM-FATEHPUR	1	40	239	0.0	1.7	-1.7
5	765 kV	GAYA-BALIA	1	0	430	0.0	7.1	-7.1
6	400 kV	PUSAULI-VARANASI	1	0	211	0.0	4.3	-4.3
7	400 kV	PUSAULI -ALLAHABAD	1	0	101	0.0	1.5	-1.5
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	0	568	0.0	10.0	-10.0
9	400 kV	PATNA-BALIA	4	0	830	0.0	14.3	-14.3
10	400 kV	BIHARSHARIFF-BALIA	2	0	285	0.0	4.5	-4.5
11	400 kV	MOTIHARI-GORAKHPUR	2	0	320	0.0	5.4	-5.4
12	400 kV	BIHARSHARIFF-VARANASI	2	0	202	0.0	2.9	-2.9
13	220 kV	PUSAULI-SAHUPURI	1	97	29	0.0	1.0	-1.0
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	0.2	67.1	-66.9
Import/Export of ER (With WR)								
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	1034	300	9.9	0.0	9.9
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	1068	18	15.9	0.0	15.9
3	765 kV	JHARSUGUDA-DURG	2	273	209	0.0	0.3	-0.3
4	400 kV	JHARSUGUDA-RAIGARH	4	175	224	0.0	0.1	-0.1
5	400 kV	RANCHI-SIPAT	2	297	17	4.3	0.0	4.3
6	220 kV	BUDHIPADAR-RAIGARH	1	0	114	0.0	1.6	-1.6
7	220 kV	BUDHIPADAR-KORBA	2	130	0	2.1	0.0	2.1
					ER-WR	32.1	1.9	30.2
Import/Export of ER (With SR)								
1	HVDC	JEYPORE-GAZUWAKA B/B	2	0	289	0.0	6.1	-6.1
2	HVDC	TALCHER-KOLAR BIPOLE	2	0	1635	0.0	31.1	-31.1
3	765 kV	ANGUL-SRIKAKULAM	2	0	2611	0.0	46.9	-46.9
4	400 kV	TALCHER-I/C	2	1280	470	10.4	0.0	10.4
5	220 kV	BALIMELA-UPPER-SILERRU	1	1	0	0.0	0.0	0.0
					ER-SR	0.0	84.1	-84.1
Import/Export of ER (With NER)								
1	400 kV	BINAGURI-BONGAIGAON	2	202	68	1.9	0.0	1.9
2	400 kV	ALIPURDUAR-BONGAIGAON	2	289	148	1.1	0.0	1.1
3	220 kV	ALIPURDUAR-SALAKATI	2	46	35	0.1	0.0	0.1
					ER-NER	3.1	0.0	3.1
Import/Export of NER (With NR)								
1	HVDC	BISWANATH CHARIALI-AGRA	2	481	0	10.4	0.0	10.4
					NER-NR	10.4	0.0	10.4
Import/Export of WR (With NR)								
1	HVDC	CHAMPA-KURUKSHETRA	2	0	2773	0.0	36.6	-36.6
2	HVDC	VINDHYACHAL B/B	-	202	0	6.0	0.0	6.0
3	HVDC	MUNDRA-MOHINDERGARH	2	0	1734	0.0	29.6	-29.6
4	765 kV	GWALIOR-AGRA	2	0	2259	0.0	44.8	-44.8
5	765 kV	PHAGI-GWALIOR	2	0	1261	0.0	22.7	-22.7
6	765 kV	JABALPUR-ORAI	2	708	791	0.0	29.0	-29.0
7	765 kV	GWALIOR-ORAI	1	698	0	10.2	0.0	10.2
8	765 kV	SATNA-ORAI	1	0	1364	0.0	29.5	-29.5
9	765 kV	CHITORGARH-BANASKANTHA	2	1209	104	14.5	0.0	14.5
10	400 kV	ZERDA-KANKROLI	1	320	0	5.0	0.0	5.0
11	400 kV	ZERDA -BHINMAL	1	465	0	8.5	0.0	8.5
12	400 kV	VINDHYACHAL -RIHAND	1	977	0	22.5	0.0	22.5
13	400 kV	RAPP-SHUJALPUR	2	0	258	0.0	2.8	-2.8
14	220 kV	BHANPURA-RANPUR	1	0	100	0.0	1.4	-1.4
15	220 kV	BHANPURA-MORAK	1	0	30	0.0	0.9	-0.9
16	220 kV	MEHGAON-AURAIYA	1	79	13	0.1	0.2	-0.1
17	220 kV	MALANPUR-AURAIYA	1	50	32	0.5	0.0	0.5
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	67.4	197.5	-130.1
Import/Export of WR (With SR)								
1	HVDC	BHADRAWATI B/B	-	0	339	0.0	7.6	-7.6
2	HVDC	RAIGARH-PUGALUR	2	0	1002	0.0	15.5	-15.5
3	765 kV	SOLAPUR-RAICHUR	2	1157	1059	6.3	7.0	-0.7
4	765 kV	WARDHA-NIZAMABAD	2	206	1877	0.2	23.0	-22.8
5	400 kV	KOLHAPUR-KUDGI	2	870	0	10.3	0.0	10.3
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	66	1.3	0.0	1.3
					WR-SR	18.1	53.1	-35.0

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)	483	0	361	8.7
	ER	400kV TALA-BINAGURI 1,2,4 (& 400kV MALBASE - BINAGURI) i.e. BINAGURI RECEIPT (from TALA HEP (6*170MW)	270	0	249	6.0
	ER	220kV CHUKHA-BIRPARA 1&2 (& 220kV MALBASE - BIRPARA) i.e. BIRPARA RECEIPT (from CHUKHA HEP 4*84MW)	100	0	69	1.7
	NER	132KV-GEYLEGPHU - SALAKATI	25	0	8	0.2
	NER	132kV Motanga-Rangia	-50	-30	-38	-0.9
NEPAL	NR	132KV-TANAKPUR(NH) - MAHENDRANAGAR(PG)	-80	0	-61	-1.5
	ER	400KV-MUZAFFARPUR - DHALKEBAR DC	-146	-2	-91	-2.2
	ER	132KV-BIHAR - NEPAL	-263	0	-151	-3.6
BANGLADESH	ER	BHERAMARA HVDC(BANGLADESH)	-936	-934	-935	-22.4
	NER	132KV-SURAJMANI NAGAR - COMILLA(BANGLADESH)-1	-90	0	-78	-1.9
	NER	132KV-SURAJMANI NAGAR - COMILLA(BANGLADESH)-2	-89	0	-78	-1.9