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: 14th 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 13.05.2021.

महोदय/Dear Sir,

आई०ई०जी०सी०-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 13-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 13th 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:** **14-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)	44112	48226	37878	20496	2219	152931
Peak Shortage (MW)	200	0	0	0	1	201
Energy Met (MU)	953	1222	916	373	42	3506
Hydro Gen (MU)	212	67	65	71	16	433
Wind Gen (MU)	41	135	68	-	-	243
Solar Gen (MU)*	47.63	40.02	90.62	4.86	0.21	183
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)	46310	54396	42712	20650	2407	156419
Time Of Maximum Demand Met (From NLDC SCADA)	22:14	15:21	12:35	19:48	18:47	22:30

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	0.042	0.00	0.62	5.35	5.97	76.68	17.35

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	5850	0	127.3	80.7	-1.5	125	0.00
	Haryana	6308	0	125.3	103.8	0.2	315	0.00
	Rajasthan	9948	0	207.7	50.1	-1.3	345	0.00
	Delhi	3854	0	71.6	57.9	-2.6	23	0.00
	UP	17542	0	310.5	124.2	2.3	571	0.00
	Uttarakhand	1502	0	32.3	12.3	-0.5	108	0.00
	HP	1274	0	25.6	4.4	-0.5	133	0.00
	J&K(UT) & Ladakh(UT)	2385	250	49.1	28.3	0.3	458	3.45
	Chandigarh	161	0	3.4	4.1	-0.7	0	0.00
WR	Chhattisgarh	3174	0	75.7	27.4	-1.1	289	0.00
	Gujarat	17240	0	368.1	120.7	2.5	758	0.00
	MP	9569	0	215.0	124.4	-2.9	512	0.00
	Maharashtra	22665	0	512.0	153.4	-0.6	751	0.00
	Goa	502	0	10.6	10.7	-0.7	57	0.00
	DD	281	0	6.3	6.3	0.0	21	0.00
	DNH	674	0	15.9	15.9	0.0	32	0.00
	AMNSIL	825	0	18.5	1.2	0.3	277	0.00
SR	Andhra Pradesh	9365	0	188.3	113.6	3.1	1263	0.00
	Telangana	7265	0	154.4	50.0	-0.3	339	0.00
	Karnataka	9404	0	183.5	60.7	0.5	813	0.00
	Kerala	2925	0	65.2	41.3	-0.2	243	0.00
	Tamil Nadu	14277	0	315.8	191.1	-2.9	574	0.00
	Puducherry	416	0	8.9	9.2	-0.3	23	0.00
ER	Bihar	4885	0	77.7	76.0	-2.4	438	0.00
	DVC	3015	0	62.7	-40.8	-0.2	235	0.00
	Jharkhand	1411	0	21.6	20.2	-3.8	119	0.00
	Odisha	3850	0	80.3	19.5	-1.5	347	0.00
	West Bengal	7111	0	129.9	29.9	-2.2	174	0.00
	Sikkim	69	0	0.9	1.7	-0.8	11	0.00
NER	Arunachal Pradesh	100	1	2.4	2.3	0.0	23	0.01
	Assam	1338	0	23.9	19.3	0.0	97	0.00
	Manipur	189	1	2.4	2.5	-0.1	18	0.01
	Meghalaya	310	0	5.4	4.0	-0.1	40	0.00
	Mizoram	96	1	1.5	1.6	-0.1	19	0.01
	Nagaland	114	1	2.1	2.2	-0.1	10	0.01
	Tripura	221	0	4.1	3.4	-0.2	75	0.00

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

	Bhutan	Nepal	Bangladesh
Actual (MU)	23.8	-5.8	-21.1
Day Peak (MW)	1134.0	-363.6	-1069.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	190.8	-249.4	175.6	-118.0	1.0	0.0
Actual(MU)	157.7	-224.1	189.4	-123.8	2.4	1.7
O/D/U/D(MU)	-33.1	25.3	13.9	-5.8	1.3	1.7

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL	% Share
Central Sector	5827	17386	8332	798	1163	33506	44
State Sector	11473	16445	10425	4685	11	43039	56
Total	17299	33831	18757	5483	1175	76544	100

G. Sourcewise generation (MU)

	NR	WR	SR	ER	NER	All India	% Share
Coal	412	1158	396	443	6	2415	67
Lignite	23	11	38	0	0	71	2
Hydro	212	67	65	71	16	433	12
Nuclear	31	16	56	0	0	103	3
Gas, Naptha & Diesel	30	43	11	0	23	106	3
RES (Wind, Solar, Biomass & Others)	111	175	176	5	0	467	13
Total	818	1470	742	519	45	3595	100

Share of RES in total generation (%)	13.52	11.94	23.68	0.93	0.46	12.99
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	43.25	17.60	40.05	14.68	36.05	27.88

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.064
Based on State Max Demands	1.088

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: 14-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	621	0.0	8.5	-8.5
4	765 kV	SASARAM-FATEHPUR	1	79	204	0.0	1.7	-1.7
5	765 kV	GAYA-BALIA	1	0	351	0.0	3.9	-3.9
6	400 kV	PUSAULI-VARANASI	1	0	196	0.0	4.0	-4.0
7	400 kV	PUSAULI -ALLAHABAD	1	0	117	0.0	1.9	-1.9
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	0	639	0.0	10.0	-10.0
9	400 kV	PATNA-BALIA	4	0	726	0.0	11.6	-11.6
10	400 kV	BIHARSHARIFF-BALIA	2	0	238	0.0	3.9	-3.9
11	400 kV	MOTIHARI-GORAKHPUR	2	0	384	0.0	7.0	-7.0
12	400 kV	BIHARSHARIFF-VARANASI	2	0	260	0.0	3.6	-3.6
13	220 kV	PUSAULI-SAHUPURI	1	43	74	0.0	0.7	-0.7
14	132 kV	SONE NAGAR-RIHAND	1	0	0	0.0	0.0	0.0
15	132 kV	GARWAH-RIHAND	1	20	0	0.3	0.0	0.3
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	0.3	63.0	-62.7
Import/Export of ER (With WR)								
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	843	0	13.4	0.0	13.4
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	555	419	4.2	0.0	4.2
3	765 kV	JHARSUGUDA-DURG	2	0	210	0.0	2.6	-2.6
4	400 kV	JHARSUGUDA-RAIGARH	4	71	290	0.0	2.5	-2.5
5	400 kV	RANCHI-SIPAT	2	160	151	1.1	0.0	1.1
6	220 kV	BUDHIPADAR-RAIGARH	1	25	83	0.0	0.7	-0.7
7	220 kV	BUDHIPADAR-KORBA	2	157	0	2.6	0.0	2.6
					ER-WR	21.3	5.7	15.6
Import/Export of ER (With SR)								
1	HVDC	JEYPORE-GAZUWAKA B/B	2	0	399	0.0	8.8	-8.8
2	HVDC	TALCHER-KOLAR BIPOLE	2	0	1987	0.0	48.0	-48.0
3	765 kV	ANGUL-SRIKAKULAM	2	0	3115	0.0	58.5	-58.5
4	400 kV	TALCHER-I/C	2	0	1260	0.0	23.2	-23.2
5	220 kV	BALIMELA-UPPER-SILERRU	1	1	0	0.0	0.0	0.0
					ER-SR	0.0	115.3	-115.3
Import/Export of ER (With NER)								
1	400 kV	BINAGURI-BONGAIGAON	2	302	46	4.2	0.0	4.2
2	400 kV	ALIPURDUAR-BONGAIGAON	2	353	152	4.2	0.0	4.2
3	220 kV	ALIPURDUAR-SALAKATI	2	53	40	0.4	0.0	0.4
					ER-NER	8.8	0.0	8.8
Import/Export of NER (With NR)								
1	HVDC	BISWANATH CHARIALI-AGRA	2	481	0	9.5	0.0	9.5
					NER-NR	9.5	0.0	9.5
Import/Export of WR (With NR)								
1	HVDC	CHAMPA-KURUKSHETRA	2	0	3041	0.0	38.6	-38.6
2	HVDC	VINDHYACHAL B/B	-	84	249	1.7	1.8	-0.1
3	HVDC	MUNDRA-MOHINDERGARH	2	0	1456	0.0	36.3	-36.3
4	765 kV	GWALIOR-AGRA	2	0	1851	0.0	31.1	-31.1
5	765 kV	PHAGI-GWALIOR	2	0	1314	0.0	18.9	-18.9
6	765 kV	JABALPUR-ORAI	2	0	640	0.0	18.9	-18.9
7	765 kV	GWALIOR-ORAI	1	622	0	10.5	0.0	10.5
8	765 kV	SATNA-ORAI	1	0	1240	0.0	25.8	-25.8
9	765 kV	CHITORGARH-BANASKANTHA	2	926	0	12.4	0.0	12.4
10	400 kV	ZERDA-KANKROLI	1	308	0	5.4	0.0	5.4
11	400 kV	ZERDA -BHINMAL	1	631	0	9.9	0.0	9.9
12	400 kV	VINDHYACHAL -RIHAND	1	976	0	22.2	0.0	22.2
13	400 kV	RAPP-SHUJALPUR	2	258	209	1.7	0.8	0.9
14	220 kV	BHANPURA-RANPUR	1	6	75	0.0	0.9	-0.9
15	220 kV	BHANPURA-MORAK	1	0	30	0.1	0.6	-0.5
16	220 kV	MEHGAON-AURAIYA	1	92	1	0.5	0.0	0.4
17	220 kV	MALANPUR-AURAIYA	1	62	13	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	65.3	173.7	-108.4
Import/Export of WR (With SR)								
1	HVDC	BHADRAWATI B/B	-	0	518	0.0	12.2	-12.2
2	HVDC	RAIGARH-PUGALUR	2	0	2517	0.0	51.1	-51.1
3	765 kV	SOLAPUR-RAICHUR	2	852	1432	2.5	15.4	-12.9
4	765 kV	WARDHA-NIZAMABAD	2	0	2056	0.0	32.3	-32.3
5	400 kV	KOLHAPUR-KUDGI	2	501	0	5.5	0.0	5.5
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	82	1.4	0.0	1.4
					WR-SR	9.4	111.0	-101.6

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)	497	0	392	9.4
	ER	400kV TALA-BINAGURI 1,2,4 (& 400kV MALBASE - BINAGURI) i.e. BINAGURI RECEIPT (from TALA HEP (6*170MW)	517	301	425	10.2
	ER	220kV CHUKHA-BIRPARA 1&2 (& 220kV MALBASE - BIRPARA) i.e. BIRPARA RECEIPT (from CHUKHA HEP 4*84MW)	184	121	129	3.1
	NER	132KV-GEYLEGPHU - SALAKATI	-19	7	-7	-0.2
	NER	132kV Motanga-Rangia	-45	-30	-39	-0.9
NEPAL	NR	132KV-TANAKPUR(NH) - MAHENDRANAGAR(PG)	0	0	0	-1.2
	ER	400KV-MUZAFFARPUR - DHALKEBAR DC	-272	-56	-182	-4.4
	ER	132KV-BIHAR - NEPAL	-92	0	-11	-0.3
BANGLADESH	ER	BHERAMARA HVDC(BANGLADESH)	-924	-588	-763	-18.3
	NER	132KV-SURAJMANI NAGAR - COMILLA(BANGLADESH)-1	-73	0	-58	-1.4
	NER	132KV-SURAJMANI NAGAR - COMILLA(BANGLADESH)-2	-72	0	-58	-1.4