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: 13th 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 12.05.2021.

महोदय/Dear Sir,

आई०ई०जी०सी०-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 12-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 12th 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:** **13-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)	41449	48244	38756	19100	2205	149754
Peak Shortage (MW)	200	0	0	0	1	201
Energy Met (MU)	1015	1222	930	376	43	3587
Hydro Gen (MU)	201	61	55	61	17	395
Wind Gen (MU)	34	136	47	-	-	217
Solar Gen (MU)*	43.54	40.93	101.01	4.93	0.20	191
Energy Shortage (MU)	3.45	0.00	0.00	0.00	0.02	3.47
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	46870	53990	43296	19650	2538	158513
Time Of Maximum Demand Met (From NLDC SCADA)	00:04	15:16	13:48	19:46	18:43	12:51

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	0.039	0.00	0.12	4.44	4.56	65.70	29.74

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	6441	0	140.9	82.6	-5.0	210	0.00
	Haryana	6703	0	132.8	107.3	1.0	331	0.00
	Rajasthan	10719	0	211.1	65.5	-2.8	712	0.00
	Delhi	4010	0	77.7	62.9	-2.3	82	0.00
	UP	18268	0	340.1	130.9	-4.5	442	0.00
	Uttarakhand	1566	0	33.6	13.9	-0.7	148	0.00
	HP	1440	0	27.1	6.2	0.1	114	0.00
	J&K(UT) & Ladakh(UT)	2336	200	48.1	29.8	-0.7	305	3.45
	Chandigarh	178	0	3.7	4.0	-0.3	4	0.00
WR	Chhattisgarh	3161	0	76.5	29.1	-1.1	229	0.00
	Gujarat	17157	0	365.4	113.7	-0.1	597	0.00
	MP	9557	0	213.2	121.1	-4.5	447	0.00
	Maharashtra	22828	0	515.3	147.1	-3.2	617	0.00
	Goa	497	0	10.9	10.5	-0.2	64	0.00
	DD	289	0	6.3	6.3	0.0	34	0.00
	DNH	683	0	16.1	16.0	0.1	47	0.00
	AMNSIL	861	0	18.7	1.8	0.3	256	0.00
SR	Andhra Pradesh	8906	0	178.9	110.8	-0.5	583	0.00
	Telangana	7286	0	153.9	43.5	-1.2	514	0.00
	Karnataka	9480	0	188.3	59.4	0.5	894	0.00
	Kerala	3217	0	69.4	49.5	0.9	395	0.00
	Tamil Nadu	14692	0	330.5	209.1	0.4	487	0.00
	Puducherry	431	0	9.2	9.3	-0.1	42	0.00
ER	Bihar	4779	0	74.9	74.4	-4.8	482	0.00
	DVC	2957	0	62.5	-47.2	-0.6	306	0.00
	Jharkhand	1277	0	23.3	22.5	-4.7	84	0.00
	Odisha	4443	0	86.3	21.5	-0.1	377	0.00
	West Bengal	6990	0	128.3	25.7	-1.2	451	0.00
	Sikkim	81	0	0.9	1.7	-0.8	19	0.00
NER	Arunachal Pradesh	135	0	2.3	2.5	-0.3	14	0.00
	Assam	1375	0	24.8	20.9	-0.2	134	0.00
	Manipur	143	1	2.4	2.6	-0.2	18	0.00
	Meghalaya	314	0	5.6	4.3	0.0	42	0.00
	Mizoram	97	0	1.5	1.6	-0.2	12	0.01
	Nagaland	134	2	2.2	2.3	-0.2	14	0.01
	Tripura	272	0	4.7	3.9	0.0	68	0.00

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

	Bhutan	Nepal	Bangladesh
Actual (MU)	16.3	-6.8	-22.0
Day Peak (MW)	986.0	-461.3	-1081.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	215.5	-270.9	181.5	-126.7	0.6	0.0
Actual(MU)	196.8	-251.2	186.9	-140.4	-0.6	-8.6
O/D/U/D(MU)	-18.8	19.7	5.4	-13.7	-1.1	-8.6

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL	% Share
Central Sector	5337	18186	8832	298	1163	33816	44
State Sector	11473	16367	9795	4575	11	42221	56
Total	16809	34553	18627	4873	1175	76036	100

G. Sourcewise generation (MU)

	NR	WR	SR	ER	NER	All India	% Share
Coal	459	1185	423	484	9	2560	69
Lignite	21	10	44	0	0	75	2
Hydro	201	61	55	61	17	395	11
Nuclear	31	16	57	0	0	103	3
Gas, Naptha & Diesel	28	47	12	0	23	109	3
RES (Wind, Solar, Biomass & Others)	100	177	168	5	0	450	12
Total	839	1496	758	550	49	3692	100

Share of RES in total generation (%)	11.87	11.86	22.18	0.90	0.41	12.19
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	39.47	17.01	36.87	11.97	35.27	25.68

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.049
Based on State Max Demands	1.096

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: 13-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	6.0	-6.0
3	765 kV	GAYA-VARANASI	2	0	698	0.0	10.9	-10.9
4	765 kV	SASARAM-FATEHPUR	1	10	230	0.0	3.0	-3.0
5	765 kV	GAYA-BALIA	1	0	387	0.0	5.9	-5.9
6	400 kV	PUSAULI-VARANASI	1	0	217	0.0	4.1	-4.1
7	400 kV	PUSAULI -ALLAHABAD	1	0	112	0.0	1.9	-1.9
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	0	650	0.0	11.1	-11.1
9	400 kV	PATNA-BALIA	4	0	875	0.0	14.4	-14.4
10	400 kV	BIHARSHARIFF-BALIA	2	0	269	0.0	4.2	-4.2
11	400 kV	MOTIHARI-GORAKHPUR	2	0	427	0.0	7.1	-7.1
12	400 kV	BIHARSHARIFF-VARANASI	2	0	310	0.0	4.5	-4.5
13	220 kV	PUSAULI-SAHUPURI	1	25	85	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	0.4	0.0	0.4
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	0.4	74.2	-73.8
Import/Export of ER (With WR)								
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	1093	99	8.6	0.0	8.6
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	621	575	0.7	0.0	0.7
3	765 kV	JHARSUGUDA-DURG	2	0	293	0.0	3.5	-3.5
4	400 kV	JHARSUGUDA-RAIGARH	4	238	294	0.0	2.1	-2.1
5	400 kV	RANCHI-SIPAT	2	189	187	0.0	0.4	-0.4
6	220 kV	BUDHIPADAR-RAIGARH	1	15	105	0.0	1.0	-1.0
7	220 kV	BUDHIPADAR-KORBA	2	164	0	2.0	0.0	2.0
					ER-WR	11.2	7.0	4.3
Import/Export of ER (With SR)								
1	HVDC	JEYPORE-GAZUWAKA B/B	2	0	447	0.0	8.8	-8.8
2	HVDC	TALCHER-KOLAR BIPOLE	2	0	1937	0.0	46.8	-46.8
3	765 kV	ANGUL-SRIKAKULAM	2	0	3253	0.0	60.6	-60.6
4	400 kV	TALCHER-I/C	2	0	1134	0.0	16.1	-16.1
5	220 kV	BALIMELA-UPPER-SILERRU	1	1	0	0.0	0.0	0.0
					ER-SR	0.0	116.2	-116.2
Import/Export of ER (With NER)								
1	400 kV	BINAGURI-BONGAIGAON	2	280	33	4.1	0.0	4.1
2	400 kV	ALIPURDUAR-BONGAIGAON	2	378	118	4.6	0.0	4.6
3	220 kV	ALIPURDUAR-SALAKATI	2	73	35	0.7	0.0	0.7
					ER-NER	9.4	0.0	9.4
Import/Export of NER (With NR)								
1	HVDC	BISWANATH CHARIALI-AGRA	2	468	0	8.0	0.0	8.0
					NER-NR	8.0	0.0	8.0
Import/Export of WR (With NR)								
1	HVDC	CHAMPA-KURUKSHETRA	2	0	3024	0.0	61.4	-61.4
2	HVDC	VINDHYACHAL B/B	-	84	105	0.2	2.3	-2.1
3	HVDC	MUNDRA-MOHINDERGARH	2	0	1457	0.0	35.3	-35.3
4	765 kV	GWALIOR-AGRA	2	0	1973	0.0	30.2	-30.2
5	765 kV	PHAGI-GWALIOR	2	0	1574	0.0	24.1	-24.1
6	765 kV	JABALPUR-ORAI	2	562	630	0.2	18.4	-18.2
7	765 kV	GWALIOR-ORAI	1	693	0	11.8	0.0	11.8
8	765 kV	SATNA-ORAI	1	0	1254	0.0	26.3	-26.3
9	765 kV	CHITORGARH-BANASKANTHA	2	957	0	11.6	0.0	11.6
10	400 kV	ZERDA-KANKROLI	1	281	0	4.9	0.0	4.9
11	400 kV	ZERDA -BHINMAL	1	501	0	8.2	0.0	8.2
12	400 kV	VINDHYACHAL -RIHAND	1	976	0	22.5	0.0	22.5
13	400 kV	RAPP-SHUJALPUR	2	221	266	0.7	1.7	-1.1
14	220 kV	BHANPURA-RANPUR	1	0	111	0.0	1.6	-1.6
15	220 kV	BHANPURA-MORAK	1	0	30	0.0	1.3	-1.3
16	220 kV	MEHGAON-AURAIYA	1	95	0	0.4	0.0	0.4
17	220 kV	MALANPUR-AURAIYA	1	61	15	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	61.3	202.6	-141.2
Import/Export of WR (With SR)								
1	HVDC	BHADRAWATI B/B	-	0	518	0.0	12.3	-12.3
2	HVDC	RAIGARH-PUGALUR	2	0	2510	0.0	43.4	-43.4
3	765 kV	SOLAPUR-RAICHUR	2	184	2386	0.1	22.3	-22.2
4	765 kV	WARDHA-NIZAMABAD	2	0	2581	0.0	33.8	-33.8
5	400 kV	KOLHAPUR-KUDGI	2	433	48	4.3	0.0	4.3
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	87	1.7	0.0	1.7
					WR-SR	6.1	111.8	-105.7

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)	500	277	341	8.2
	ER	400kV TALA-BINAGURI 1,2,4 (& 400kV MALBASE - BINAGURI) i.e. BINAGURI RECEIPT (from TALA HEP (6*170MW)	290	234	268	6.4
	ER	220kV CHUKHA-BIRPARA 1&2 (& 220kV MALBASE - BIRPARA) i.e. BIRPARA RECEIPT (from CHUKHA HEP 4*84MW)	134	0	40	1.0
	NER	132KV-GEYLEGPHU - SALAKATI	19	-11	0	0.0
	NER	132kV Motanga-Rangia	43	17	-32	-0.8
NEPAL	NR	132KV-TANAKPUR(NH) - MAHENDRANAGAR(PG)	-72	0	-43	-1.0
	ER	400KV-MUZAFFARPUR - DHALKEBAR DC	-316	-73	-228	-5.5
	ER	132KV-BIHAR - NEPAL	-73	0	-14	-0.3
BANGLADESH	ER	BHERAMARA HVDC(BANGLADESH)	-928	-486	-791	-19.0
	NER	132KV-SURAJMANI NAGAR - COMILLA(BANGLADESH)-1	-76	0	-62	-1.5
	NER	132KV-SURAJMANI NAGAR - COMILLA(BANGLADESH)-2	-77	0	-62	-1.5