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: 16th 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 15.05.2021.

महोदय/Dear Sir,

आई०ई०जी०सी०-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 15-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 15th 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:** **16-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)	46563	48315	35186	21682	2270	154016
Peak Shortage (MW)	200	0	0	0	5	205
Energy Met (MU)	1027	1198	838	460	41	3565
Hydro Gen (MU)	195	58	54	58	16	382
Wind Gen (MU)	15	55	98	-	-	168
Solar Gen (MU)*	47.39	34.77	86.76	5.34	0.18	174
Energy Shortage (MU)	3.48	0.00	0.00	0.00	0.08	3.56
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	49223	52209	38172	21720	2487	155731
Time Of Maximum Demand Met (From NLDC SCADA)	22:15	14:57	09:26	21:01	18:38	22:43

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	0.035	0.00	0.75	5.42	6.17	75.30	18.53

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	6263	0	137.2	83.9	-0.6	103	0.00
	Haryana	6505	0	131.8	111.0	-1.3	181	0.00
	Rajasthan	10550	0	217.7	71.3	-0.9	447	0.00
	Delhi	3756	0	72.8	56.7	-1.2	95	0.00
	UP	19104	0	355.4	138.2	-0.9	515	0.03
	Uttarakhand	1610	0	35.0	14.1	1.9	240	0.00
	HP	1372	5	26.9	6.2	1.2	226	0.00
	J&K(UT) & Ladakh(UT)	2282	250	46.8	26.7	1.2	616	3.45
	Chandigarh	175	0	3.6	3.3	0.3	35	0.00
WR	Chhattisgarh	3696	0	81.0	33.0	-1.3	197	0.00
	Gujarat	17226	0	365.7	162.0	0.7	764	0.00
	MP	9917	0	221.7	128.5	-1.6	448	0.00
	Maharashtra	21095	0	479.0	153.1	-5.5	699	0.00
	Goa	467	0	10.5	9.8	0.1	143	0.00
	DD	284	0	6.3	6.2	0.1	16	0.00
	DNH	682	0	15.9	15.7	0.2	55	0.00
	AMNSIL	859	0	18.2	1.2	0.2	226	0.00
SR	Andhra Pradesh	8769	0	186.4	95.8	0.5	461	0.00
	Telangana	6786	0	147.8	42.1	-2.0	586	0.00
	Karnataka	8054	0	159.6	37.3	-6.8	532	0.00
	Kerala	2779	0	48.7	25.7	-0.1	316	0.00
	Tamil Nadu	12762	0	288.2	199.5	-0.7	729	0.00
	Puducherry	387	0	7.7	8.0	-0.3	61	0.00
ER	Bihar	5509	0	110.0	100.9	3.8	452	0.00
	DVC	3044	0	65.8	-43.9	-0.3	308	0.00
	Jharkhand	1411	0	27.5	24.2	-2.2	125	0.00
	Odisha	4666	0	94.1	28.8	0.4	381	0.00
	West Bengal	7832	0	161.7	38.0	0.9	438	0.00
	Sikkim	74	0	1.0	1.5	-0.5	8	0.00
NER	Arunachal Pradesh	102	0	2.3	2.0	0.3	19	0.01
	Assam	1348	2	22.6	18.2	-0.5	90	0.00
	Manipur	203	0	2.5	2.5	0.0	24	0.01
	Meghalaya	325	0	5.6	4.0	0.0	37	0.00
	Mizoram	100	1	1.5	1.6	-0.2	11	0.01
	Nagaland	129	0	2.2	2.3	-0.1	8	0.01
	Tripura	232	1	4.4	3.6	-0.2	54	0.04

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

	Bhutan	Nepal	Bangladesh
Actual (MU)	12.6	-9.5	-19.8
Day Peak (MW)	705.0	-527.9	-883.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	219.2	-214.3	98.6	-104.6	1.1	0.0
Actual(MU)	208.5	-210.6	79.5	-82.7	0.1	-5.2
O/D/U/D(MU)	-10.7	3.7	-19.2	21.8	-0.9	-5.2

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL	% Share
Central Sector	5952	15651	9132	998	1047	32779	41
State Sector	12738	17777	12645	4895	11	48066	59
Total	18689	33428	21777	5893	1058	80845	100

G. Sourcewise generation (MU)

	NR	WR	SR	ER	NER	All India	% Share
Coal	476	1213	398	512	7	2606	71
Lignite	22	11	42	0	0	74	2
Hydro	195	58	54	58	16	382	10
Nuclear	31	20	64	0	0	115	3
Gas, Naptha & Diesel	30	41	10	0	22	103	3
RES (Wind, Solar, Biomass & Others)	85	90	207	5	0	387	11
Total	838	1433	774	576	46	3666	100

Share of RES in total generation (%)	10.16	6.27	26.69	0.93	0.40	10.56
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	37.11	11.72	41.88	11.04	36.19	24.09

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.052
Based on State Max Demands	1.094

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: 16-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	5.8	-5.8
3	765 kV	GAYA-VARANASI	2	0	643	0.0	12.1	-12.1
4	765 kV	SASARAM-FATEHPUR	1	23	268	0.0	3.3	-3.3
5	765 kV	GAYA-BALIA	1	0	424	0.0	7.9	-7.9
6	400 kV	PUSAULI-VARANASI	1	0	244	0.0	4.5	-4.5
7	400 kV	PUSAULI -ALLAHABAD	1	0	94	0.0	1.3	-1.3
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	0	675	0.0	10.2	-10.2
9	400 kV	PATNA-BALIA	4	0	883	0.0	13.9	-13.9
10	400 kV	BIHARSHARIFF-BALIA	2	7	228	0.0	3.5	-3.5
11	400 kV	MOTIHARI-GORAKHPUR	2	0	411	0.0	6.9	-6.9
12	400 kV	BIHARSHARIFF-VARANASI	2	0	261	0.0	4.4	-4.4
13	220 kV	PUSAULI-SAHUPURI	1	20	109	0.0	1.3	-1.3
14	132 kV	SONE NAGAR-RIHAND	1	0	0	0.0	0.0	0.0
15	132 kV	GARWAH-RIHAND	1	20	0	0.4	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	75.1	-74.7
Import/Export of ER (With WR)								
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	1595	0	20.3	0.0	20.3
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	1134	1	14.8	0.0	14.8
3	765 kV	JHARSUGUDA-DURG	2	147	127	0.1	0.0	0.1
4	400 kV	JHARSUGUDA-RAIGARH	4	132	203	0.0	2.0	-2.0
5	400 kV	RANCHI-SIPAT	2	287	64	3.1	0.0	3.1
6	220 kV	BUDHIPADAR-RAIGARH	1	10	87	0.0	1.0	-1.0
7	220 kV	BUDHIPADAR-KORBA	2	163	0	2.3	0.0	2.3
					ER-WR	40.6	3.0	37.6
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	1981	0.0	39.6	-39.6
3	765 kV	ANGUL-SRIKAKULAM	2	0	3061	0.0	52.8	-52.8
4	400 kV	TALCHER-I/C	2	876	313	1.7	0.0	1.7
5	220 kV	BALIMELA-UPPER-SILERRU	1	1	0	0.0	0.0	0.0
					ER-SR	0.0	101.1	-101.1
Import/Export of ER (With NER)								
1	400 kV	BINAGURI-BONGAIGAON	2	324	149	3.5	0.0	3.5
2	400 kV	ALIPURDUAR-BONGAIGAON	2	446	250	4.2	0.0	4.2
3	220 kV	ALIPURDUAR-SALAKATI	2	79	44	0.8	0.0	0.8
					ER-NER	8.5	0.0	8.5
Import/Export of NER (With NR)								
1	HVDC	BISWANATH CHARIALI-AGRA	2	486	0	8.8	0.0	8.8
					NER-NR	8.8	0.0	8.8
Import/Export of WR (With NR)								
1	HVDC	CHAMPA-KURUKSHETRA	2	0	3024	0.0	35.6	-35.6
2	HVDC	VINDHYACHAL B/B	-	202	251	3.0	2.6	0.4
3	HVDC	MUNDRA-MOHINDERGARH	2	0	1459	0.0	36.3	-36.3
4	765 kV	GWALIOR-AGRA	2	0	2461	0.0	47.5	-47.5
5	765 kV	PHAGI-GWALIOR	2	0	1959	0.0	36.9	-36.9
6	765 kV	JABALPUR-ORAI	2	849	909	0.1	35.6	-35.5
7	765 kV	GWALIOR-ORAI	1	830	0	15.7	0.0	15.7
8	765 kV	SATNA-ORAI	1	0	1446	0.0	31.0	-31.0
9	765 kV	CHITORGARH-BANASKANTHA	2	1629	0	27.1	0.0	27.1
10	400 kV	ZERDA-KANKROLI	1	347	0	6.1	0.0	6.1
11	400 kV	ZERDA -BHINMAL	1	573	0	8.2	0.0	8.2
12	400 kV	VINDHYACHAL -RIHAND	1	970	0	22.7	0.0	22.7
13	400 kV	RAPP-SHUJALPUR	2	0	384	0.0	5.9	-5.9
14	220 kV	BHANPURA-RANPUR	1	0	97	0.0	1.4	-1.4
15	220 kV	BHANPURA-MORAK	1	0	30	0.0	1.1	-1.1
16	220 kV	MEHGAON-AURAIYA	1	83	14	0.2	0.2	0.0
17	220 kV	MALANPUR-AURAIYA	1	50	34	0.7	0.0	0.6
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	83.6	234.0	-150.4
Import/Export of WR (With SR)								
1	HVDC	BHADRAWATI B/B	-	446	518	4.2	5.9	-1.7
2	HVDC	RAIGARH-PUGALUR	2	971	502	0.0	0.9	-0.9
3	765 kV	SOLAPUR-RAICHUR	2	1715	2297	4.3	11.4	-7.0
4	765 kV	WARDHA-NIZAMABAD	2	324	2435	0.1	24.7	-24.5
5	400 kV	KOLHAPUR-KUDGI	2	1049	0	12.4	0.0	12.4
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	1	0	0.0	0.0	0.0
					WR-SR	21.1	42.9	-21.9

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)	379	0	240	5.8
	ER	400kV TALA-BINAGURI 1,2,4 (& 400kV MALBASE - BINAGURI) i.e. BINAGURI RECEIPT (from TALA HEP (6*170MW)	253	0	225	5.4
	ER	220kV CHUKHA-BIRPARA 1&2 (& 220kV MALBASE - BIRPARA) i.e. BIRPARA RECEIPT (from CHUKHA HEP 4*84MW)	75	0	48	1.2
	NER	132KV-GEYLEGPHU - SALAKATI	20	3	9	0.2
	NER	132kV Motanga-Rangia	-22	-10	-21	-0.5
NEPAL	NR	132KV-TANAKPUR(NH) - MAHENDRANAGAR(PG)	0	0	0	-1.7
	ER	400KV-MUZAFFARPUR - DHALKEBAR DC	-277	-88	-159	-3.8
	ER	132KV-BIHAR - NEPAL	-251	-88	-168	-4.0
BANGLADESH	ER	BHERAMARA HVDC(BANGLADESH)	-753	-623	-713	-17.1
	NER	132KV-SURAJMANI NAGAR - COMILLA(BANGLADESH)-1	-65	0	-55	-1.3
	NER	132KV-SURAJMANI NAGAR - COMILLA(BANGLADESH)-2	-65	0	-55	-1.3