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: 18th Jan 2022

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 17.01.2022.

महोदय/Dear Sir,

आई०ई०जी०सी०-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 17-जनवरी-2022 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 17th January 2022, 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:** **18-Jan-2022**

A. Power Supply Position at All India and Regional level

	NR	WR	SR	ER	NER	TOTAL
Demand Met during Evening Peak hrs(MW) (at 19:00 hrs; from RLDCs)	54240	53557	39895	19528	2622	169842
Peak Shortage (MW)	1107	0	0	972	0	2079
Energy Met (MU)	1052	1196	937	396	45	3624
Hydro Gen (MU)	95	33	87	25	9	249
Wind Gen (MU)	9	60	62	-	-	131
Solar Gen (MU)*	67.69	35.96	93.24	4.87	0.33	202
Energy Shortage (MU)	7.29	0.00	0.00	6.87	0.00	14.16
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	54949	58986	47239	20171	2675	179257
Time Of Maximum Demand Met (From NLDC SCADA)	18:45	11:02	09:51	18:08	17:46	10:27

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	0.034	0.00	0.28	6.16	6.43	77.04	16.53

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	6916	0	124.0	63.7	0.3	212	1.25
	Haryana	6573	0	123.0	65.3	0.8	243	0.00
	Rajasthan	14435	0	257.8	76.7	2.7	580	1.11
	Delhi	4823	0	78.0	66.3	-0.6	353	0.00
	UP	19102	0	322.4	95.9	-0.2	582	0.00
	Uttarakhand	2324	0	43.0	33.0	1.2	181	0.00
	HP	1932	0	35.0	25.6	1.4	444	0.28
	J&K(UT) & Ladakh(UT)	2969	250	64.2	57.3	2.2	280	4.65
	Chandigarh	258	0	4.4	4.3	0.1	37	0.00
WR	Chhattisgarh	3732	0	77.7	28.0	-1.8	293	0.00
	Gujarat	17320	0	358.9	195.2	4.6	655	0.00
	MP	11983	0	225.1	132.8	-0.7	435	0.00
	Maharashtra	24194	0	481.5	133.0	-2.4	625	0.00
	Goa	567	0	11.4	10.8	0.3	42	0.00
	DD	322	0	7.2	6.7	0.5	45	0.00
	DNH	848	0	19.2	18.8	0.4	270	0.00
	AMNSIL	669	0	14.5	8.5	0.1	265	0.00
SR	Andhra Pradesh	8370	0	164.1	55.4	-0.3	568	0.00
	Telangana	9739	0	182.6	80.9	1.1	545	0.00
	Karnataka	12672	0	234.7	74.8	-1.0	702	0.00
	Kerala	3802	0	76.3	54.6	-0.2	294	0.00
	Tamil Nadu	13368	0	272.1	149.4	-1.7	468	0.00
	Puducherry	340	0	6.8	7.6	-0.8	38	0.00
ER	Bihar	5833	0	85.7	75.3	-0.4	657	1.64
	DVC	3155	0	66.5	-45.9	-1.9	261	2.25
	Jharkhand	1524	0	29.6	21.8	-0.8	174	2.99
	Odisha	5287	0	97.2	37.7	-0.4	315	0.00
	West Bengal	6285	0	114.8	1.9	0.0	267	0.00
	Sikkim	119	0	1.8	1.9	-0.2	59	0.00
NER	Arunachal Pradesh	143	0	2.3	2.4	-0.2	36	0.00
	Assam	1440	0	24.2	19.1	-0.2	89	0.00
	Manipur	243	0	3.5	3.5	0.0	25	0.00
	Meghalaya	382	0	6.9	5.7	0.1	51	0.00
	Mizoram	125	0	1.9	1.5	-0.2	16	0.00
	Nagaland	139	0	2.3	2.0	0.1	21	0.00
	Tripura	219	0	3.7	1.7	-0.3	28	0.00

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

	Bhutan	Nepal	Bangladesh
Actual (MU)	-1.8	-9.2	-18.8
Day Peak (MW)	-246.0	-650.7	-831.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	237.0	-164.6	63.7	-138.8	2.6	0.0
Actual(MU)	236.4	-152.6	55.3	-143.5	2.1	-2.3
O/D/U/D(MU)	-0.6	12.0	-8.4	-4.7	-0.5	-2.3

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL	% Share
Central Sector	7499	15418	6402	2665	584	32567	44
State Sector	10010	16906	10396	3538	11	40860	56
Total	17509	32323	16798	6203	595	73428	100

G. Sourcewise generation (MU)

	NR	WR	SR	ER	NER	All India	% Share
Coal	572	1189	492	545	10	2808	76
Lignite	18	14	44	0	0	76	2
Hydro	95	33	87	25	9	249	7
Nuclear	29	21	70	0	0	119	3
Gas, Naptha & Diesel	15	11	9	0	28	63	2
RES (Wind, Solar, Biomass & Others)	105	98	193	5	0	400	11
Total	834	1365	894	575	47	3715	100

Share of RES in total generation (%)	12.58	7.15	21.54	0.84	0.70	10.77
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	27.42	11.11	39.06	5.15	20.21	20.69

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.027
Based on State Max Demands	1.072

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: 18-Jan-2022

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	-	3	0	0.0	0.0	0.0
3	765 kV	GAYA-VARANASI	2	47	989	0.0	10.8	-10.8
4	765 kV	SASARAM-FATEHPUR	1	0	614	0.0	9.1	-9.1
5	765 kV	GAYA-BALIA	1	0	682	0.0	10.7	-10.7
6	400 kV	PUSAULI-VARANASI	1	9	119	0.0	1.4	-1.4
7	400 kV	PUSAULI -ALLAHABAD	1	0	173	0.0	1.9	-1.9
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	0	951	0.0	11.6	-11.6
9	400 kV	PATNA-BALIA	4	0	1472	0.0	23.8	-23.8
10	400 kV	BIHARSHARIFF-BALIA	2	0	432	0.0	6.0	-6.0
11	400 kV	MOTIHARI-GORAKHPUR	2	0	721	0.0	10.7	-10.7
12	400 kV	BIHARSHARIFF-VARANASI	2	0	422	0.0	5.9	-5.9
13	220 kV	PUSAULI-SAHUPURI	1	0	170	0.0	2.2	-2.2
14	132 kV	SONE NAGAR-RIHAND	1	0	0	0.0	0.0	0.0
15	132 kV	GARWAH-RIHAND	1	25	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	94.0	-93.6
Import/Export of ER (With WR)								
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	373	590	0.0	1.1	-1.1
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	666	392	2.7	0.0	2.7
3	765 kV	JHARSUGUDA-DURG	2	0	469	0.0	6.0	-6.0
4	400 kV	JHARSUGUDA-RAIGARH	4	127	405	0.0	2.3	-2.3
5	400 kV	RANCHI-SIPAT	2	171	163	0.0	0.0	0.0
6	220 kV	BUDHIPADAR-RAIGARH	1	15	100	0.0	0.9	-0.9
7	220 kV	BUDHIPADAR-KORBA	2	204	0	3.3	0.0	3.3
					ER-WR	6.0	10.4	-4.4
Import/Export of ER (With SR)								
1	HVDC	JEYPORE-GAZUWAKA B/B	2	0	443	0.0	9.9	-9.9
2	HVDC	TALCHER-KOLAR BIPOLE	2	0	1643	0.0	31.5	-31.5
3	765 kV	ANGUL-SRIKAKULAM	2	0	2416	0.0	44.0	-44.0
4	400 kV	TALCHER-I/C	2	438	400	0.0	1.1	-1.1
5	220 kV	BALIMELA-UPPER-SILERRU	1	2	0	0.0	0.0	0.0
					ER-SR	0.0	85.4	-85.4
Import/Export of ER (With NER)								
1	400 kV	BINAGURI-BONGAIGAON	2	286	0	2.9	0.0	2.9
2	400 kV	ALIPURDUAR-BONGAIGAON	2	393	0	5.5	0.0	5.5
3	220 kV	ALIPURDUAR-SALAKATI	2	66	0	0.9	0.0	0.9
					ER-NER	9.2	0.0	9.2
Import/Export of NER (With NR)								
1	HVDC	BISWANATH CHARIALI-AGRA	2	491	0	11.6	0.0	11.6
					NER-NR	11.6	0.0	11.6
Import/Export of WR (With NR)								
1	HVDC	CHAMPA-KURUKSHETRA	2	0	2510	0.0	43.2	-43.2
2	HVDC	VINDHYACHAL B/B	-	448	0	11.5	0.0	11.5
3	HVDC	MUNDRA-MOHINDERGARH	2	0	254	0.0	6.2	-6.2
4	765 kV	GWALIOR-AGRA	2	0	2296	0.0	36.2	-36.2
5	765 kV	GWALIOR-PHAGI	2	0	2183	0.0	33.5	-33.5
6	765 kV	JABALPUR-ORAI	2	0	1139	0.0	34.8	-34.8
7	765 kV	GWALIOR-ORAI	1	845	0	14.6	0.0	14.6
8	765 kV	SATNA-ORAI	1	0	1088	0.0	21.1	-21.1
9	765 kV	BANASKANTHA-CHITORGARH	2	1750	0	23.3	0.0	23.3
10	765 kV	VINDHYACHAL-VARANASI	2	0	2871	0.0	44.1	-44.1
11	400 kV	ZERDA-KANKROLI	1	313	0	4.4	0.0	4.4
12	400 kV	ZERDA -BHINMAL	1	369	114	3.2	0.0	3.2
13	400 kV	VINDHYACHAL -RIHAND	1	478	0	10.3	0.0	10.3
14	400 kV	RAPP-SHUJALPUR	2	94	475	0.2	4.3	-4.1
15	220 kV	BHANPURA-RANPUR	1	0	0	0.0	0.0	0.0
16	220 kV	BHANPURA-MORAK	1	0	30	0.0	0.8	-0.8
17	220 kV	MEHGAON-AURAIYA	1	98	0	0.5	0.0	0.5
18	220 kV	MALANPUR-AURAIYA	1	62	11	1.3	0.0	1.3
19	132 kV	GWALIOR-SAWAI MADHOPUR	1	0	0	0.0	0.0	0.0
20	132 kV	RAJGHAT-LALITPUR	2	0	0	0.0	0.0	0.0
					WR-NR	69.1	224.0	-155.0
Import/Export of WR (With SR)								
1	HVDC	BHADRAWATI B/B	-	293	0	7.2	0.0	7.2
2	HVDC	RAIGARH-PUGALUR	2	579	0	13.9	0.0	13.9
3	765 kV	SOLAPUR-RAICHUR	2	880	1742	2.0	10.9	-8.9
4	765 kV	WARDHA-NIZAMABAD	2	0	2378	0.0	33.4	-33.4
5	400 kV	KOLHAPUR-KUDGI	2	1217	0	17.8	0.0	17.8
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	81	1.4	0.0	1.4
					WR-SR	42.3	44.3	-2.0

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&3 i.e. ALIPURDUAR RECEIPT (from MANGDECHU HEP 4*180MW)	140	0	25	0.6
	ER	400kV TALA-BINAGURI 1,2,4 (& 400kV MALBASE - BINAGURI) i.e. BINAGURI RECEIPT (from TALA HEP (6*170MW)	0	0	0	0.0
	ER	220kV CHUKHA-BIRPARA 1&2 (& 220kV MALBASE - BIRPARA) i.e. BIRPARA RECEIPT (from CHUKHA HEP 4*84MW)	0	0	0	0.0
	NER	132kV GELEPHU-SALAKATI	-14	0	-9	-0.2
	NER	132kV MOTANGA-RANGIA	-15	0	-5	-0.1
NEPAL	NR	132kV MAHENDRANAGAR-TANAKPUR(NHPC)	-79	0	-68	-1.6
	ER	NEPAL IMPORT (FROM BIHAR)	-216	0	-70	-1.7
	ER	400kV DHALKEBAR-MUZAFFARPUR 1&2	-356	-5	-245	-5.9
BANGLADESH	ER	BHERAMARA B/B HVDC (BANGLADESH)	-726	-631	-695	-16.7
	NER	132kV COMILLA-SURAJMANI NAGAR 1&2	-105	0	-87	-2.1