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: 19th 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 18.01.2022.

महोदय/Dear Sir,

आई०ई०जी०सी०-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 18-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 18th 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:** **19-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)	53573	54131	41220	20143	2637	171704
Peak Shortage (MW)	2184	0	0	940	0	3124
Energy Met (MU)	1072	1224	963	409	45	3713
Hydro Gen (MU)	96	39	94	28	9	266
Wind Gen (MU)	10	41	58	-	-	109
Solar Gen (MU)*	66.18	39.00	105.85	4.76	0.23	216
Energy Shortage (MU)	11.38	0.00	0.00	7.59	0.00	18.97
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	53952	60159	48344	20629	2701	181112
Time Of Maximum Demand Met (From NLDC SCADA)	18:19	10:26	10:29	18:10	17:49	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	0.029	0.00	0.00	5.75	5.75	81.30	12.95

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	6562	100	122.5	63.0	0.4	271	4.50
	Haryana	6543	0	127.1	68.8	0.3	206	0.00
	Rajasthan	14531	0	260.9	72.9	2.4	536	1.87
	Delhi	4898	0	79.8	67.0	0.3	262	0.00
	UP	19688	0	335.7	103.6	0.7	488	0.00
	Uttarakhand	2398	0	43.1	32.6	1.4	331	0.36
	HP	1927	0	34.4	26.0	1.0	411	0.00
	J&K(UT) & Ladakh(UT)	3059	250	63.9	57.9	1.3	383	4.65
	Chandigarh	262	0	4.5	4.1	0.4	66	0.00
WR	Chhattisgarh	3777	0	80.2	30.0	-0.3	186	0.00
	Gujarat	17680	0	363.9	199.6	1.9	421	0.00
	MP	12429	0	235.1	133.7	-0.2	795	0.00
	Maharashtra	24490	0	493.2	134.9	-1.8	719	0.00
	Goa	581	0	11.7	11.3	0.1	33	0.00
	DD	329	0	7.3	6.9	0.4	43	0.00
	DNH	809	0	18.4	18.3	0.1	83	0.00
	AMNSIL	651	0	14.2	8.7	-0.4	228	0.00
SR	Andhra Pradesh	8813	0	171.7	65.7	1.2	773	0.00
	Telangana	10363	0	193.4	88.1	-0.2	532	0.00
	Karnataka	12229	0	225.9	75.8	-1.3	469	0.00
	Kerala	3831	0	77.2	53.8	-0.5	283	0.00
	Tamil Nadu	14141	0	287.7	159.0	-1.0	523	0.00
	Puducherry	347	0	7.1	7.4	-0.4	58	0.00
ER	Bihar	5360	0	89.8	79.6	-0.5	409	2.69
	DVC	3200	0	69.0	-47.8	0.0	300	2.18
	Jharkhand	1534	0	29.2	21.7	-0.1	169	2.73
	Odisha	5551	0	100.3	36.5	-1.1	370	0.00
	West Bengal	6360	0	119.0	3.2	-0.3	297	0.00
	Sikkim	109	0	1.8	1.8	-0.1	42	0.00
NER	Arunachal Pradesh	147	0	2.3	2.5	-0.3	23	0.00
	Assam	1449	0	23.9	20.7	-0.8	85	0.00
	Manipur	241	0	3.4	3.5	0.0	21	0.00
	Meghalaya	397	0	7.2	5.8	0.0	34	0.00
	Mizoram	126	0	1.9	1.5	-0.2	12	0.00
	Nagaland	138	0	2.3	2.0	0.2	19	0.00
	Tripura	227	0	3.7	1.9	-0.3	17	0.00

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

	Bhutan	Nepal	Bangladesh
Actual (MU)	-1.6	-9.2	-18.8
Day Peak (MW)	-275.0	-675.0	-838.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	233.0	-156.4	65.1	-146.2	4.5	0.0
Actual(MU)	236.3	-158.1	61.6	-146.8	4.1	-2.9
O/D/U/D(MU)	3.3	-1.6	-3.5	-0.6	-0.5	-2.9

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL	% Share
Central Sector	7601	15338	5402	1860	584	30784	42
State Sector	10670	17271	10693	3248	11	41892	58
Total	18271	32608	16095	5108	595	72676	100

G. Sourcewise generation (MU)

	NR	WR	SR	ER	NER	All India	% Share
Coal	598	1225	520	567	9	2919	77
Lignite	18	13	44	0	0	75	2
Hydro	96	39	94	28	9	266	7
Nuclear	29	21	70	0	0	119	3
Gas, Naptha & Diesel	15	11	9	0	27	62	2
RES (Wind, Solar, Biomass & Others)	105	81	179	5	0	370	10
Total	860	1391	916	600	46	3812	100

Share of RES in total generation (%)	12.16	5.85	19.55	0.79	0.50	9.71
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	26.61	10.16	37.41	5.46	21.24	19.81

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.026
Based on State Max Demands	1.078

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: 19-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	23	860	0.0	11.7	-11.7
4	765 kV	SASARAM-FATEHPUR	1	0	544	0.0	8.9	-8.9
5	765 kV	GAYA-BALIA	1	0	626	0.0	11.8	-11.8
6	400 kV	PUSAULI-VARANASI	1	10	121	0.0	1.5	-1.5
7	400 kV	PUSAULI -ALLAHABAD	1	0	176	0.0	1.9	-1.9
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	0	1042	0.0	11.7	-11.7
9	400 kV	PATNA-BALIA	4	0	1293	0.0	24.9	-24.9
10	400 kV	BIHARSHARIFF-BALIA	2	0	363	0.0	6.6	-6.6
11	400 kV	MOTIHARI-GORAKHPUR	2	0	665	0.0	10.1	-10.1
12	400 kV	BIHARSHARIFF-VARANASI	2	0	429	0.0	5.4	-5.4
13	220 kV	PUSAULI-SAHUPURI	1	0	163	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	96.7	-96.3
Import/Export of ER (With WR)								
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	666	873	0.0	5.8	-5.8
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	498	251	2.3	0.0	2.3
3	765 kV	JHARSUGUDA-DURG	2	0	430	0.0	5.9	-5.9
4	400 kV	JHARSUGUDA-RAIGARH	4	209	375	0.0	3.0	-3.0
5	400 kV	RANCHI-SIPAT	2	109	112	0.4	0.0	0.4
6	220 kV	BUDHIPADAR-RAIGARH	1	15	107	0.0	1.2	-1.2
7	220 kV	BUDHIPADAR-KORBA	2	210	0	2.4	0.0	2.4
					ER-WR	5.2	15.9	-10.8
Import/Export of ER (With SR)								
1	HVDC	JEYPORE-GAZUWAKA B/B	2	0	601	0.0	11.7	-11.7
2	HVDC	TALCHER-KOLAR BIPOLE	2	0	1642	0.0	30.5	-30.5
3	765 kV	ANGUL-SRIKAKULAM	2	0	2300	0.0	44.0	-44.0
4	400 kV	TALCHER-I/C	2	918	888	8.3	0.0	8.3
5	220 kV	BALIMELA-UPPER-SILERRU	1	2	0	0.0	0.0	0.0
					ER-SR	0.0	86.2	-86.2
Import/Export of ER (With NER)								
1	400 kV	BINAGURI-BONGAIGAON	2	371	0	2.7	0.0	2.7
2	400 kV	ALIPURDUAR-BONGAIGAON	2	345	0	4.0	0.0	4.0
3	220 kV	ALIPURDUAR-SALAKATI	2	88	0	0.8	0.0	0.8
					ER-NER	7.5	0.0	7.5
Import/Export of NER (With NR)								
1	HVDC	BISWANATH CHARIALI-AGRA	2	565	0	12.2	0.0	12.2
					NER-NR	12.2	0.0	12.2
Import/Export of WR (With NR)								
1	HVDC	CHAMPA-KURUKSHETRA	2	0	2504	0.0	35.1	-35.1
2	HVDC	VINDHYACHAL B/B	-	448	0	8.4	0.0	8.4
3	HVDC	MUNDRA-MOHINDERGARH	2	0	255	0.0	6.2	-6.2
4	765 kV	GWALIOR-AGRA	2	0	2366	0.0	39.0	-39.0
5	765 kV	GWALIOR-PHAGI	2	0	2070	0.0	32.0	-32.0
6	765 kV	JABALPUR-ORAI	2	0	1223	0.0	36.3	-36.3
7	765 kV	GWALIOR-ORAI	1	830	0	14.5	0.0	14.5
8	765 kV	SATNA-ORAI	1	0	1092	0.0	20.9	-20.9
9	765 kV	BANASKANTHA-CHITORGARH	2	1491	0	23.9	0.0	23.9
10	765 kV	VINDHYACHAL-VARANASI	2	0	2429	0.0	42.7	-42.7
11	400 kV	ZERDA-KANKROLI	1	254	0	4.2	0.0	4.2
12	400 kV	ZERDA -BHINMAL	1	288	157	2.7	0.0	2.7
13	400 kV	VINDHYACHAL -RIHAND	1	488	0	10.9	0.0	10.9
14	400 kV	RAPP-SHUJALPUR	2	131	557	0.2	5.8	-5.6
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	81	0	0.4	0.0	0.4
18	220 kV	MALANPUR-AURAIYA	1	46	5	1.1	0.0	1.1
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	66.3	218.7	-152.5
Import/Export of WR (With SR)								
1	HVDC	BHADRAWATI B/B	-	990	339	11.2	0.3	11.0
2	HVDC	RAIGARH-PUGALUR	2	570	605	0.0	10.1	-10.1
3	765 kV	SOLAPUR-RAICHUR	2	909	1425	3.6	9.7	-6.1
4	765 kV	WARDHA-NIZAMABAD	2	0	2331	0.0	32.6	-32.6
5	400 kV	KOLHAPUR-KUDGI	2	1332	0	20.6	0.0	20.6
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	81	1.3	0.0	1.3
					WR-SR	36.7	52.7	-16.0

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)	128	0	36	0.9
	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	-17	-3	-8	-0.2
	NER	132kV MOTANGA-RANGIA	19	1	2	0.0
NEPAL	NR	132kV MAHENDRANAGAR-TANAKPUR(NHPC)	-77	0	-69	-1.7
	ER	NEPAL IMPORT (FROM BIHAR)	-236	0	-91	-2.2
	ER	400kV DHALKEBAR-MUZAFFARPUR 1&2	-362	-5	-223	-5.4
BANGLADESH	ER	BHERAMARA B/B HVDC (BANGLADESH)	-726	-630	-693	-16.6
	NER	132kV COMILLA-SURAJMANI NAGAR 1&2	-112	0	-92	-2.2