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 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 15.01.2022.

महोदय/Dear Sir,

आई०ई०जी०सी०-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 15-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 15th 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:** **16-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)	53323	50317	35558	19571	2530	161299
Peak Shortage (MW)	410	0	0	192	0	602
Energy Met (MU)	1018	1122	872	388	43	3443
Hydro Gen (MU)	95	29	79	21	10	234
Wind Gen (MU)	18	107	17	-	-	142
Solar Gen (MU)*	64.35	38.56	97.07	4.29	0.30	205
Energy Shortage (MU)	4.94	0.00	0.00	3.06	0.00	8.00
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	53909	56216	44937	19635	2579	171808
Time Of Maximum Demand Met (From NLDC SCADA)	18:34	10:29	09:36	18:36	17:56	10:29

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	0.046	0.22	0.78	5.80	6.79	69.36	23.85

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	6802	0	124.6	73.7	-1.0	236	0.20
	Haryana	6504	60	122.1	68.7	1.0	286	0.09
	Rajasthan	13906	0	247.4	65.9	-1.3	513	0.00
	Delhi	4045	0	66.9	56.4	-2.0	192	0.00
	UP	18540	0	313.4	94.7	-1.3	451	0.00
	Uttarakhand	2378	0	42.9	33.8	0.1	154	0.00
	HP	1898	0	34.3	27.1	0.1	173	0.00
	J&K(UT) & Ladakh(UT)	3206	250	62.9	56.5	1.0	495	4.65
	Chandigarh	231	0	4.0	4.1	-0.1	47	0.00
WR	Chhattisgarh	3596	0	76.5	27.9	-0.7	203	0.00
	Gujarat	15163	0	297.2	151.5	3.2	907	0.00
	MP	11744	0	222.1	126.0	-0.6	848	0.00
	Maharashtra	23934	0	473.0	139.8	-4.0	544	0.00
	Goa	560	0	11.3	10.5	0.2	43	0.00
	DD	316	0	6.9	6.6	0.3	42	0.00
	DNH	827	0	18.8	18.7	0.1	65	0.00
	AMNSIL	717	0	16.1	7.4	-0.4	270	0.00
SR	Andhra Pradesh	8512	0	157.7	63.0	0.2	414	0.00
	Telangana	9326	0	173.6	82.1	-0.3	472	0.00
	Karnataka	12439	0	216.6	76.0	0.0	770	0.00
	Kerala	3698	0	74.8	53.4	0.3	343	0.00
	Tamil Nadu	11692	0	243.5	135.0	-1.3	620	0.00
	Puducherry	289	0	6.1	6.5	-0.4	63	0.00
ER	Bihar	5490	0	83.5	75.0	0.9	215	0.00
	DVC	3123	95	68.4	-41.9	-1.4	247	2.39
	Jharkhand	1611	60	30.4	22.3	-0.9	160	0.67
	Odisha	5200	0	91.7	35.4	-3.1	329	0.00
	West Bengal	6124	0	112.1	-3.4	-0.6	205	0.00
	Sikkim	113	0	1.6	2.0	-0.4	43	0.00
NER	Arunachal Pradesh	138	0	2.4	2.6	-0.3	12	0.00
	Assam	1362	0	22.6	17.5	-0.6	75	0.00
	Manipur	242	0	3.5	3.7	-0.2	25	0.00
	Meghalaya	395	0	7.2	5.7	0.1	39	0.00
	Mizoram	140	0	2.1	1.6	-0.1	17	0.00
	Nagaland	142	0	2.3	2.0	0.1	23	0.00
	Tripura	216	0	2.8	1.4	-1.2	28	0.00

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

	Bhutan	Nepal	Bangladesh
Actual (MU)	-2.2	-6.2	-17.3
Day Peak (MW)	-104.0	-468.2	-820.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	239.7	-173.8	79.3	-147.4	2.2	0.0
Actual(MU)	234.6	-173.6	77.7	-147.2	2.0	-6.6
O/D/U/D(MU)	-5.1	0.1	-1.6	0.2	-0.2	-6.6

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL	% Share
Central Sector	8749	14758	6362	710	584	31162	42
State Sector	10175	19576	10586	3288	11	43635	58
Total	18924	34333	16948	3998	595	74798	100

G. Sourcewise generation (MU)

	NR	WR	SR	ER	NER	All India	% Share
Coal	539	1082	475	542	7	2645	75
Lignite	21	14	33	0	0	67	2
Hydro	95	29	79	21	10	234	7
Nuclear	28	21	70	0	0	119	3
Gas, Naptha & Diesel	15	11	9	0	28	63	2
RES (Wind, Solar, Biomass & Others)	111	147	139	4	0	402	11
Total	809	1303	805	567	45	3530	100

Share of RES in total generation (%)	13.72	11.26	17.32	0.77	0.66	11.39
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	28.98	15.09	35.79	4.53	21.78	21.39

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.032
Based on State Max Demands	1.075

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-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	-	2	0	0.0	0.0	0.0
3	765 kV	GAYA-VARANASI	2	0	889	0.0	11.7	-11.7
4	765 kV	SASARAM-FATEHPUR	1	0	570	0.0	8.4	-8.4
5	765 kV	GAYA-BALIA	1	0	570	0.0	9.8	-9.8
6	400 kV	PUSAULI-VARANASI	1	26	118	0.0	1.3	-1.3
7	400 kV	PUSAULI -ALLAHABAD	1	7	180	0.0	1.6	-1.6
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	0	1049	0.0	12.6	-12.6
9	400 kV	PATNA-BALIA	4	0	1317	0.0	21.3	-21.3
10	400 kV	BIHARSHARIFF-BALIA	2	49	290	0.0	4.5	-4.5
11	400 kV	MOTIHARI-GORAKHPUR	2	0	823	0.0	11.6	-11.6
12	400 kV	BIHARSHARIFF-VARANASI	2	0	414	0.0	5.0	-5.0
13	220 kV	PUSAULI-SAHUPURI	1	0	144	0.0	1.6	-1.6
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	89.5	-89.1
Import/Export of ER (With WR)								
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	719	622	1.1	0.0	1.1
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	366	668	0.0	3.1	-3.1
3	765 kV	JHARSUGUDA-DURG	2	0	828	0.0	12.6	-12.6
4	400 kV	JHARSUGUDA-RAIGARH	4	81	443	0.0	4.6	-4.6
5	400 kV	RANCHI-SIPAT	2	112	225	0.0	1.1	-1.1
6	220 kV	BUDHIPADAR-RAIGARH	1	0	129	0.0	1.6	-1.6
7	220 kV	BUDHIPADAR-KORBA	2	165	0	2.1	0.0	2.1
					ER-WR	3.3	23.1	-19.9
Import/Export of ER (With SR)								
1	HVDC	JEYPORE-GAZUWAKA B/B	2	0	550	0.0	12.4	-12.4
2	HVDC	TALCHER-KOLAR BIPOLE	2	0	1640	0.0	29.6	-29.6
3	765 kV	ANGUL-SRIKAKULAM	2	0	2598	0.0	44.1	-44.1
4	400 kV	TALCHER-I/C	2	776	131	10.1	0.0	10.1
5	220 kV	BALIMELA-UPPER-SILERRU	1	2	0	0.0	0.0	0.0
					ER-SR	0.0	86.1	-86.1
Import/Export of ER (With NER)								
1	400 kV	BINAGURI-BONGAIGAON	2	233	14	2.4	0.0	2.4
2	400 kV	ALIPURDUAR-BONGAIGAON	2	332	51	4.6	0.0	4.6
3	220 kV	ALIPURDUAR-SALAKATI	2	63	14	0.8	0.0	0.8
					ER-NER	7.8	0.0	7.8
Import/Export of NER (With NR)								
1	HVDC	BISWANATH CHARIALI-AGRA	2	492	0	10.0	0.0	10.0
					NER-NR	10.0	0.0	10.0
Import/Export of WR (With NR)								
1	HVDC	CHAMPA-KURUKSHETRA	2	0	2533	0.0	45.0	-45.0
2	HVDC	VINDHYACHAL B/B	-	272	488	1.9	4.3	-2.4
3	HVDC	MUNDRA-MOHINDERGARH	2	0	253	0.0	6.2	-6.2
4	765 kV	GWALIOR-AGRA	2	0	2356	0.0	38.0	-38.0
5	765 kV	GWALIOR-PHAGI	2	0	2022	0.0	27.2	-27.2
6	765 kV	JABALPUR-ORAI	2	0	960	0.0	28.6	-28.6
7	765 kV	GWALIOR-ORAI	1	860	0	13.1	0.0	13.1
8	765 kV	SATNA-ORAI	1	0	1091	0.0	19.9	-19.9
9	765 kV	BANASKANTHA-CHITORGARH	2	1313	359	10.6	0.0	10.6
10	765 kV	VINDHYACHAL-VARANASI	2	0	2462	0.0	37.8	-37.8
11	400 kV	ZERDA-KANKROLI	1	234	3	2.8	0.0	2.8
12	400 kV	ZERDA -BHINMAL	1	291	165	1.9	0.0	1.9
13	400 kV	VINDHYACHAL -RIHAND	1	973	0	19.6	0.0	19.6
14	400 kV	RAPP-SHUJALPUR	2	135	406	0.6	3.2	-2.6
15	220 kV	BHANPURA-RANPUR	1	0	0	0.0	0.0	0.0
16	220 kV	BHANPURA-MORAK	1	0	30	0.0	0.9	-0.9
17	220 kV	MEHGAON-AURAIYA	1	93	0	0.4	0.0	0.4
18	220 kV	MALANPUR-AURAIYA	1	54	14	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	52.0	211.0	-159.0
Import/Export of WR (With SR)								
1	HVDC	BHADRAWATI B/B	-	246	316	1.7	5.4	-3.7
2	HVDC	RAIGARH-PUGALUR	2	0	1002	0.0	16.0	-16.0
3	765 kV	SOLAPUR-RAICHUR	2	1523	1439	5.2	10.7	-5.5
4	765 kV	WARDHA-NIZAMABAD	2	18	2126	0.0	28.3	-28.3
5	400 kV	KOLHAPUR-KUDGI	2	1300	0	17.9	0.0	17.9
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	75	1.4	0.0	1.4
					WR-SR	26.2	60.3	-34.2

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)	161	0	38	0.9
	ER	400kV TALA-BINAGURI 1,2,4 (& 400kV MALBASE - BINAGURI) i.e. BINAGURI RECEIPT (from TALA HEP (6*170MW)	0	0	0	-1.6
	ER	220kV CHUKHA-BIRPARA 1&2 (& 220kV MALBASE - BIRPARA) i.e. BIRPARA RECEIPT (from CHUKHA HEP 4*84MW)	0	0	0	-1.4
	NER	132kV GELEPHU-SALAKATI	-14	-2	-9	-0.2
	NER	132kV MOTANGA-RANGIA	-18	8	-5	-0.1
NEPAL	NR	132kV MAHENDRANAGAR-TANAKPUR(NHPC)	-73	0	-63	-1.5
	ER	NEPAL IMPORT (FROM BIHAR)	-109	-17	-20	-0.5
	ER	400kV DHALKEBAR-MUZAFFARPUR 1&2	-286	-16	-177	-4.2
BANGLADESH	ER	BHERAMARA B/B HVDC (BANGLADESH)	-717	-525	-647	-15.5
	NER	132kV COMILLA-SURAJMANI NAGAR 1&2	-103	0	-72	-1.7