



National Load Despatch Centre
राष्ट्रीय भार प्रेषण केंद्र
POWER SYSTEM OPERATION CORPORATION LIMITED
पावर 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: 20th 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., डोंगतेह, 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 19.01.2022.

महोदय/Dear Sir,

आईईजीसी-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 19-जनवरी-2022 की अखिल भारतीय प्रणाली की दैनिक ग्रिड निष्पादन रिपोर्ट रांभांप्रेके की वेबसाइट पर उपलब्ध 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 19th 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: 20-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)	54963	54180	41193	19863	2641	172840
Peak Shortage (MW)	1637	0	0	539	0	2176
Energy Met (MU)	1083	1231	981	414	46	3755
Hydro Gen (MU)	93	39	98	28	10	268
Wind Gen (MU)	9	40	25	-	-	74
Solar Gen (MU)*	62.90	43.25	108.45	4.74	0.33	220
Energy Shortage (MU)	20.15	0.00	0.00	7.32	0.00	27.47
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	55155	60775	49282	20671	2736	183914
Time Of Maximum Demand Met (From NLDC SCADA)	18:29	10:29	10:58	18:04	17:54	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	0.041	0.00	0.84	8.48	9.33	75.96	14.71

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	6198	750	118.8	59.2	0.6	308	14.20
	Haryana	6682	0	128.6	68.4	0.1	188	0.00
	Rajasthan	15083	0	267.1	74.7	2.1	372	0.97
	Delhi	4950	0	79.6	68.0	-0.3	285	0.00
	UP	19840	0	340.5	109.9	-0.9	457	0.00
	Uttarakhand	2414	0	43.9	33.6	1.1	402	0.33
	HP	1964	0	35.9	27.4	1.1	200	0.00
	J&K(UT) & Ladakh(UT)	2941	300	63.7	58.2	0.6	281	4.65
	Chandigarh	271	0	4.5	4.5	0.0	46	0.00
	WR	Chhattisgarh	3759	0	81.5	31.3	-0.6	171
Gujarat		17062	0	358.2	201.5	-1.6	441	0.00
MP		12838	0	243.0	142.8	0.9	715	0.00
Maharashtra		24749	0	495.3	141.5	-2.8	499	0.00
Goa		574	0	11.9	11.3	0.2	43	0.00
DD		339	0	7.5	7.0	0.5	46	0.00
DNH		782	0	18.0	18.0	0.0	53	0.00
SR	AMNSIL	696	0	15.4	9.2	-0.3	277	0.00
	Andhra Pradesh	9006	0	174.9	71.2	1.4	660	0.00
	Telangana	10643	0	199.1	89.9	0.4	647	0.00
	Karnataka	12624	0	229.0	79.9	-0.6	538	0.00
	Kerala	3856	0	77.1	52.9	-0.3	209	0.00
	Tamil Nadu	14137	0	294.1	167.4	-0.9	294	0.00
	Puducherry	359	0	7.2	7.4	-0.1	53	0.00
ER	Bihar	5405	0	92.5	82.2	-1.7	327	2.65
	DVC	3134	0	66.9	-48.2	-2.3	518	1.82
	Jharkhand	1552	0	30.4	21.0	1.4	207	2.85
	Odisha	5585	0	100.6	38.6	0.9	452	0.00
	West Bengal	6451	0	121.5	6.4	0.1	262	0.00
NER	Sikkim	119	0	1.9	1.8	0.2	48	0.00
	Arunachal Pradesh	215	0	2.3	2.6	-0.4	62	0.00
	Assam	1475	0	25.2	21.0	0.1	108	0.00
	Manipur	246	0	3.4	3.5	-0.1	23	0.00
	Meghalaya	391	0	7.1	5.7	0.1	40	0.00
	Mizoram	137	0	1.8	1.6	-0.4	8	0.00
	Nagaland	149	0	2.3	2.1	0.1	40	0.00
	Tripura	224	0	3.6	1.9	-0.4	19	0.00

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

	Bhutan	Nepal	Bangladesh
Actual (MU)	-1.8	-10.0	-19.0
Day Peak (MW)	-333.0	-636.1	-845.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	230.1	-161.0	70.4	-143.7	4.2	0.0
Actual(MU)	229.3	-165.3	72.6	-142.8	3.3	-2.9
O/D/U/D(MU)	-0.8	-4.3	2.2	0.9	-0.9	-2.9

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL	% Share
Central Sector	7131	14428	5902	2020	639	30119	41
State Sector	10895	17391	11113	4508	11	43917	59
Total	18026	31818	17015	6528	650	74036	100

G. Sourcewise generation (MU)

	NR	WR	SR	ER	NER	All India	% Share
Coal	626	1245	538	566	10	2984	77
Lignite	17	12	46	0	0	75	2
Hydro	93	39	98	28	10	268	7
Nuclear	28	21	70	0	0	119	3
Gas, Naptha & Diesel	15	11	9	0	28	62	2
RES (Wind, Solar, Biomass & Others)	99	85	161	5	0	351	9
Total	878	1412	921	599	47	3858	100
Share of RES in total generation (%)	11.32	6.01	17.52	0.79	0.70	9.09	
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	25.17	10.27	35.71	5.47	21.48	19.13	

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.026
Based on State Max Demands	1.070

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)

Sl No	Voltage Level	Line Details	No. of Circuit	Max Import (MW)	Max Export (MW)	Date of Reporting:		NET (MU)	
						Import (MU)	Export (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	3	0	0.0	0.0	0.0	
3	765 kV	GAYA-VARANASI	2	0	863	0.0	12.0	-12.0	
4	765 kV	SASARAM-FATEHPUR	1	0	572	0.0	9.8	-9.8	
5	765 kV	GAYA-BALIA	1	0	617	0.0	10.5	-10.5	
6	400 kV	PUSAULI-VARANASI	1	7	111	0.0	1.5	-1.5	
7	400 kV	PUSAULI-ALLAHABAD	1	0	167	0.0	2.3	-2.3	
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	0	909	0.0	11.4	-11.4	
9	400 kV	PATNA-BALIA	4	0	1054	0.0	18.3	-18.3	
10	400 kV	BIHARSHARIFF-BALIA	2	0	329	0.0	3.7	-3.7	
11	400 kV	MOTIHARI-GORAKHPUR	2	0	517	0.0	8.0	-8.0	
12	400 kV	BIHARSHARIFF-VARANASI	2	0	399	0.0	5.6	-5.6	
13	220 kV	PUSAULI-SAHUPURI	1	0	171	0.0	2.0	-2.0	
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	84.8	-84.5
Import/Export of ER (With WR)									
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	180	807	0.0	6.3	-6.3	
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	597	269	1.7	0.0	1.7	
3	765 kV	JHARSUGUDA-DURG	2	0	456	0.0	6.8	-6.8	
4	400 kV	JHARSUGUDA-RAIGARH	4	18	492	0.0	5.0	-5.0	
5	400 kV	RANCHI-SIPAT	2	129	149	0.0	0.4	-0.4	
6	220 kV	BUDHIPADAR-RAIGARH	1	0	154	0.0	2.0	-2.0	
7	220 kV	BUDHIPADAR-KORBA	2	90	9	1.3	0.0	1.3	
						ER-WR	2.9	20.5	-17.6
Import/Export of ER (With SR)									
1	HVDC	JEYPORE-GAZUWAKA B/B	2	0	447	0.0	10.0	-10.0	
2	HVDC	TALCHER-KOLAR BIPOLE	2	0	1642	0.0	35.2	-35.2	
3	765 kV	ANGUL-SRIKAKULAM	2	0	2515	0.0	48.1	-48.1	
4	400 kV	TALCHER-I/C	2	781	0	9.0	0.0	9.0	
5	220 kV	BALMELA-UPPER-SILERRU	1	2	0	0.0	0.0	0.0	
						ER-SR	0.0	93.3	-93.3
Import/Export of ER (With NER)									
1	400 kV	BINAGURI-BONGAIGAON	2	310	0	2.7	0.0	2.7	
2	400 kV	ALIPURDUAR-BONGAIGAON	2	342	0	4.5	0.0	4.5	
3	220 kV	ALIPURDUAR-SALAKATI	2	90	0	0.9	0.0	0.9	
						ER-NER	8.1	0.0	8.1
Import/Export of NER (With NR)									
1	HVDC	BISWANATH CHARIALI-AGRA	2	474	0	11.7	0.0	11.7	
						NER-NR	11.7	0.0	11.7
Import/Export of WR (With NR)									
1	HVDC	CHAMPA-KURUKSHETRA	2	0	2641	0.0	41.1	-41.1	
2	HVDC	VINDHYACHAL B/B	-	448	0	7.8	0.0	7.8	
3	HVDC	MUNDRAL-MOHENDERGARH	2	0	255	0.0	6.2	-6.2	
4	765 kV	GWALIOR-AGRA	2	0	2294	0.0	36.6	-36.6	
5	765 kV	GWALIOR-PHAGI	2	0	2121	0.0	34.3	-34.3	
6	765 kV	JABALPUR-ORAI	2	0	1041	0.0	35.7	-35.7	
7	765 kV	GWALIOR-ORAI	1	877	0	15.4	0.0	15.4	
8	765 kV	SATNA-ORAI	1	0	1072	0.0	21.4	-21.4	
9	765 kV	BANASKANTHA-CHITORGARH	2	1487	0	23.7	0.0	23.7	
10	765 kV	VINDHYACHAL-VARANASI	2	0	2951	0.0	43.8	-43.8	
11	400 kV	ZERDA-KANKROLI	1	256	0	4.3	0.0	4.3	
12	400 kV	ZERDA -BHINMAL	1	322	160	2.5	0.0	2.5	
13	400 kV	VINDHYACHAL -RIHAND	1	485	0	11.0	0.0	11.0	
14	400 kV	RAPP-SHUALPUR	2	117	421	0.3	3.9	-3.7	
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	91	0	0.5	0.0	0.5	
18	220 kV	MALANPUR-AURAIYA	1	52	5	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	66.7	224.0	-157.3
Import/Export of WR (With SR)									
1	HVDC	BHADRAWATI B/B	-	0	319	0.0	7.4	-7.4	
2	HVDC	RAIGARH-PUGALUR	2	583	603	1.9	0.0	1.9	
3	765 kV	SOLAPUR-RAICHUR	2	1659	1665	3.6	12.7	-9.1	
4	765 kV	WARDHA-NIZAMABAD	2	0	2088	0.0	32.0	-32.0	
5	400 kV	KOLHAPUR-KUDGI	2	1436	0	19.5	0.0	19.5	
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	74	1.4	0.0	1.4	
						WR-SR	26.4	52.0	-25.6

INTERNATIONAL EXCHANGES				Import(+ve)/Export(-ve) Energy Exchange (MU)			
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 MANGDECHHU HEP 4*180MW)	150	0	27	0.6	
	ER	400kV TALA-BINAGURI 1,2,3 (& 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	-5	-9	-0.2	
	NER	132kV MOTANGA-RANGIA	14	1	3	0.1	
NEPAL	NR	132kV MAHENDRANAGAR-TANAKPUR(NHPC)	-76	0	-65	-1.6	
	ER	NEPAL IMPORT (FROM BIHAR)	-241	0	-128	-3.1	
BANGLADESH	ER	400kV DHALKEBAR-MUZAFFARPUR 1&2	-319	5	-224	-5.4	
	ER	BHERAMARA B/B HVDC (BANGLADESH)	-738	-637	-700	-16.8	
BANGLADESH	NER	132kV COMILLA-SURAJMANI NAGAR 1&2	-107	0	-90	-2.2	