



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: 17th 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 16.01.2022.

महोदय/Dear Sir,

आईईजीसी-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 16-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 16th 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: 17-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)	51176	49602	34892	18819	2478	156967
Peak Shortage (MW)	250	0	0	327	0	577
Energy Met (MU)	993	1142	845	384	43	3407
Hydro Gen (MU)	99	26	71	22	9	227
Wind Gen (MU)	17	87	53	-	-	157
Solar Gen (MU)*	64.95	33.98	90.19	4.71	0.36	194
Energy Shortage (MU)	4.65	0.00	0.00	3.57	0.00	8.22
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	51910	56792	41704	19328	2524	165808
Time Of Maximum Demand Met (From NLDC SCADA)	18:40	10:33	09:46	18:25	17:59	10:30

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	0.22	4.76	4.98	81.73	13.30

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	6335	0	117.2	63.5	-0.8	182	0.00
	Haryana	5573	0	111.1	60.9	-0.5	155	0.00
	Rajasthan	13566	0	247.9	68.9	2.0	488	0.00
	Delhi	4125	0	66.4	55.1	-0.9	213	0.00
	UP	18369	0	310.9	91.2	0.0	455	0.00
	Uttarakhand	2156	0	40.9	31.3	0.3	165	0.00
	HP	1757	0	32.0	24.3	-0.2	174	0.00
	J&K(UT) & Ladakh(UT)	2914	300	62.9	56.5	0.7	396	4.65
WR	Chandigarh	225	0	3.9	4.0	-0.1	29	0.00
	Chhattisgarh	3675	0	77.6	26.7	-1.7	170	0.00
	Gujarat	16340	0	327.6	183.6	5.2	903	0.00
	MP	11624	0	220.1	130.0	-2.9	538	0.00
	Maharashtra	23131	0	463.6	133.2	-6.1	627	0.00
	Goa	513	0	10.6	9.8	0.5	35	0.00
	DD	315	0	7.2	6.7	0.5	46	0.00
	DNH	801	0	18.9	18.7	0.2	63	0.00
SR	AMNSIL	736	0	16.8	8.3	-0.4	261	0.00
	Andhra Pradesh	8119	0	152.8	51.6	-0.3	424	0.00
	Telangana	8867	0	168.5	78.9	-0.4	432	0.00
	Karnataka	11135	0	213.3	72.7	-2.0	482	0.00
	Kerala	3442	0	69.0	48.3	-0.3	326	0.00
	Tamil Nadu	11086	0	235.2	127.2	-2.2	530	0.00
	Puducherry	291	0	6.0	6.7	-0.8	50	0.00
	ER	Bihar	4954	0	83.3	73.5	-0.6	306
DVC		3026	0	67.4	-40.0	0.0	191	2.48
Jharkhand		1625	0	30.9	22.3	-0.5	122	1.08
Odisha		5289	0	95.6	37.2	-1.1	353	0.00
West Bengal		5655	0	105.2	-7.5	-0.5	316	0.00
Sikkim		99	0	1.5	1.8	-0.3	13	0.00
NER	Arunachal Pradesh	135	0	2.3	2.4	-0.2	27	0.00
	Assam	1374	0	22.7	17.7	-0.4	134	0.00
	Manipur	230	0	3.3	3.5	-0.2	21	0.00
	Meghalaya	366	0	7.0	5.6	0.0	54	0.00
	Mizoram	120	0	1.9	1.5	-0.2	12	0.00
	Nagaland	137	0	2.2	2.0	0.1	9	0.00
	Tripura	212	0	3.5	1.5	-0.3	21	0.00

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

	Bhutan	Nepal	Bangladesh
Actual (MU)	-1.9	-7.7	-18.8
Day Peak (MW)	-255.0	-558.7	-835.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	219.3	-142.5	60.7	-139.7	2.2	0.0
Actual(MU)	216.2	-140.7	52.5	-133.6	2.3	-3.3
O/D/U/D(MU)	-3.0	1.7	-8.2	6.1	0.1	-3.3

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL	% Share
Central Sector	7399	15418	6402	2260	584	32062	42
State Sector	10610	18921	10396	3538	11	43475	58
Total	18009	34338	16798	5798	595	75538	100

G. Sourcewise generation (MU)

	NR	WR	SR	ER	NER	All India	% Share
Coal	527	1099	455	522	7	2610	75
Lignite	20	16	38	0	0	73	2
Hvdro	99	26	71	22	9	227	7
Nuclear	29	21	70	0	0	119	3
Gas, Naptha & Diesel	15	10	9	0	28	62	2
RES (Wind, Solar, Biomass & Others)	110	123	166	5	0	403	12
Total	799	1295	808	549	45	3495	100
Share of RES in total generation (%)	13.72	9.47	20.55	0.86	0.80	11.54	
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	29.67	13.15	37.93	4.85	21.55	21.45	

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.039
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: 17-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	62	732	0.0	9.0	-9.0
4	765 kV	SASARAM-FATEHPUR	1	0	522	0.0	7.8	-7.8
5	765 kV	GAYA-BALIA	1	0	612	0.0	10.4	-10.4
6	400 kV	PUSAULI-VARANASI	1	27	112	0.0	1.5	-1.5
7	400 kV	PUSAULI-ALLAHABAD	1	2	170	0.0	1.8	-1.8
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	0	919	0.0	11.2	-11.2
9	400 kV	PATNA-BALIA	4	0	1404	0.0	21.4	-21.4
10	400 kV	BIHARSHARIF-BALIA	2	0	491	0.0	6.4	-6.4
11	400 kV	MOTIHARI-GORAKHPUR	2	0	679	0.0	10.4	-10.4
12	400 kV	BIHARSHARIF-VARANASI	2	0	384	0.0	4.9	-4.9
13	220 kV	PUSAULI-SAHUPURI	1	0	134	0.0	1.7	-1.7
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	86.6
Import/Export of ER (With WR)								
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	289	412	2.2	0.0	2.2
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	642	399	1.3	0.0	1.3
3	765 kV	JHARSUGUDA-DURG	2	0	715	0.0	9.3	-9.3
4	400 kV	JHARSUGUDA-RAIGARH	4	140	405	0.0	3.7	-3.7
5	400 kV	RANCHI-SIPAT	2	190	144	0.0	0.6	-0.6
6	220 kV	BUDHIPADAR-RAIGARH	1	8	97	0.0	1.1	-1.1
7	220 kV	BUDHIPADAR-KORBA	2	201	0	3.2	0.0	3.2
						ER-WR	6.7	14.7
Import/Export of ER (With SR)								
1	HVDC	JEYPORE-GAZUWAKA B/B	2	0	550	0.0	11.0	-11.0
2	HVDC	TALCHER-KOLAR BIPOLE	2	0	1340	0.0	29.1	-29.1
3	765 kV	ANGUL-SRIKAKULAM	2	0	2217	0.0	41.4	-41.4
4	400 kV	TALCHER/JC	2	572	410	4.0	0.0	4.0
5	220 kV	BALIMELA-UPPER-SILERRU	1	2	0	0.0	0.0	0.0
						ER-SR	0.0	81.5
Import/Export of ER (With NER)								
1	400 kV	BINAGURI-BONGAIGAON	2	319	0	2.6	0.0	2.6
2	400 kV	ALIPURDUAR-BONGAIGAON	2	442	17	5.2	0.0	5.2
3	220 kV	ALIPURDUAR-SALAKATI	2	66	6	0.9	0.0	0.9
						ER-NER	8.7	0.0
Import/Export of NER (With NR)								
1	HVDC	BISWANATH CHARIALI-AGRA	2	491	0	11.0	0.0	11.0
						NER-NR	11.0	0.0
Import/Export of WR (With NR)								
1	HVDC	CHAMPA-KURUKSHETRA	2	0	2002	0.0	38.1	-38.1
2	HVDC	VINDHYACHAL B/B	-	448	0	10.4	0.0	10.4
3	HVDC	MUNDRU-MOHENDERGARH	2	0	255	0.0	6.2	-6.2
4	765 kV	GWALIOR-AGRA	2	0	2236	0.0	35.5	-35.5
5	765 kV	GWALIOR-PHAGI	2	0	1875	0.0	27.9	-27.9
6	765 kV	JABALPUR-ORAI	2	0	1024	0.0	30.9	-30.9
7	765 kV	GWALIOR-ORAI	1	782	0	13.7	0.0	13.7
8	765 kV	SATNA-ORAI	1	0	1038	0.0	19.8	-19.8
9	765 kV	BANASKANTHA-CHITORGARH	2	1739	0	19.5	0.0	19.5
10	765 kV	VINDHYACHAL-VARANASI	2	0	2744	0.0	43.7	-43.7
11	400 kV	ZERDA-KANKROLI	1	344	0	4.3	0.0	4.3
12	400 kV	ZERDA-BHINMAL	1	465	87	3.9	0.0	3.9
13	400 kV	VINDHYACHAL-RIHAND	1	473	0	9.9	0.0	9.9
14	400 kV	RAPP-SHUALPUR	2	228	403	0.5	3.3	-2.8
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	92	0	0.4	0.0	0.4
18	220 kV	MALANPUR-AURAIYA	1	56	13	1.1	0.0	1.1
19	132 kV	GWALIOR-SAWALMADHOPUR	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	63.6	206.1
Import/Export of WR (With SR)								
1	HVDC	BHADRAWATI B/B	-	990	359	7.1	3.1	4.0
2	HVDC	RAIGARH-PUGALUR	2	583	605	0.8	0.0	0.8
3	765 kV	SOLAPUR-RAICHR	2	1348	761	3.4	4.8	-1.4
4	765 kV	WARDHA-NIZAMABAD	2	0	1763	0.0	29.2	-29.2
5	400 kV	KOLHAPUR-KUDGI	2	1339	0	18.6	0.0	18.6
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	0	73	1.4	0.0	1.4
						WR-SR	31.3	37.1

INTERNATIONAL EXCHANGES

State	Region	Line Name	Max (MW)	Min (MW)	Import(+ve)/Export(-ve)	
					Avg (MW)	Energy Exchange (MU)
BHUTAN	ER	400kV MANGDECHHU-ALIPURDUAR 1,2&3 i.e. ALIPURDUAR RECEIPT (from MANGDECHHU HEP 4*180MW)	151	0	19	0.5
	ER	400kV TALA-BINAGURI 1,2,3 (& 400kV MALBASE - BINAGURI) i.e. BINAGURI RECEIPT (from TALA HEP (6*170MW) 220kV CHUKHA-BIRPARA 1&2 (& 220kV MALBASE - BIRPARA) i.e. BIRPARA RECEIPT (from CHUKHA HEP 4*84MW)	0	0	0	-1.4
	ER		0	0	0	-1.2
	NER	132kV GELEPHU-SALAKATI	-17	0	-9	-0.2
	NER	132kV MOTANGA-RANGIA	-23	0	-5	-0.1
NEPAL	NR	132kV MAHENDRANAGAR-TANAKPUR(NHPC)	-73	0	-58	-1.4
	ER	NEPAL IMPORT (FROM BIHAR)	-132	-37	-40	-1.0
BANGLADESH	ER	400kV DHALKEBAR-MUZAFFARPUR 1&2	-354	-34	-222	-5.3
	ER	BHERAMARA B/B HVDC (BANGLADESH)	-724	-629	-696	-16.7
BANGLADESH	NER	132kV COMILLA-SURAJMANI NAGAR 1&2	-111	0	-85	-2.1