



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: 14th 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 13.01.2022.

महोदय/Dear Sir,

आईईजीसी-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 13-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 13th 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: 14-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)	51610	51831	41010	19383	2593	166427
Peak Shortage (MW)	400	0	0	704	0	1104
Energy Met (MU)	1011	1180	958	383	42	3574
Hydro Gen (MU)	99	31	82	24	10	246
Wind Gen (MU)	4	84	29	-	-	117
Solar Gen (MU)*	70.13	40.06	93.78	3.93	0.23	208
Energy Shortage (MU)	4.83	0.00	0.00	3.48	0.00	8.31
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	51701	58563	48714	20069	2628	177918
Time Of Maximum Demand Met (From NLDC SCADA)	18:51	10:40	09:42	17:59	18:13	10:32

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	0.032	0.00	0.09	4.21	4.31	74.86	20.83

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	6807	0	121.9	73.2	-2.1	257	0.00
	Haryana	6140	0	119.3	65.1	0.7	188	0.00
	Rajasthan	13670	0	244.5	70.2	1.9	641	0.00
	Delhi	4577	0	75.3	63.0	-0.4	326	0.01
	UP	18011	0	304.4	91.1	1.6	644	0.00
	Uttarakhand	2331	0	43.6	31.2	2.3	265	0.17
	HP	1941	0	35.3	27.4	0.3	236	0.00
	J&K(UT) & Ladakh(UT)	2893	250	62.2	55.9	0.8	242	4.65
	Chandigarh	240	0	4.0	4.2	-0.2	17	0.00
	Chhattisgarh	3658	0	78.9	25.5	0.4	508	0.00
WR	Gujarat	17066	0	348.0	176.7	3.3	1034	0.00
	MP	11114	0	215.1	130.7	-0.7	502	0.00
	Maharashtra	24836	0	484.1	137.9	-3.7	720	0.00
	Goa	560	0	11.4	10.5	0.3	27	0.00
	DD	324	0	7.2	6.9	0.3	41	0.00
	DNH	843	0	19.5	19.1	0.3	79	0.00
	AMNSIL	729	0	15.8	7.8	-0.3	253	0.00
SR	Andhra Pradesh	9185	0	175.9	81.7	-0.7	453	0.00
	Telangana	9078	0	172.4	70.9	0.7	615	0.00
	Karnataka	12461	0	224.2	76.2	-1.1	688	0.00
	Kerala	3784	0	75.8	51.7	-0.1	289	0.00
	Tamil Nadu	14631	0	302.3	187.7	0.5	701	0.00
	Puducherry	371	0	7.7	7.9	-0.2	29	0.00
	Bihar	4714	0	78.7	71.9	-0.2	363	0.39
ER	DVC	3194	0	67.3	-43.6	-1.7	385	1.74
	Jharkhand	1524	0	29.3	21.2	-0.9	235	1.36
	Odisha	5084	0	91.3	40.9	-1.5	503	0.00
	West Bengal	6286	0	114.4	-2.9	-0.1	318	0.00
	Sikkim	116	0	1.7	1.9	-0.1	52	0.00
NER	Arunachal Pradesh	147	0	2.2	2.4	-0.4	33	0.00
	Assam	1415	0	21.9	17.2	-0.4	98	0.00
	Manipur	237	0	3.4	3.5	-0.1	17	0.00
	Meghalaya	389	0	6.6	5.9	-0.4	48	0.00
	Mizoram	137	0	1.8	1.6	-0.4	15	0.00
	Nagaland	142	0	2.5	2.0	0.3	20	0.00
	Tripura	220	0	3.6	1.9	-0.2	37	0.00

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

	Bhutan	Nepal	Bangladesh
Actual (MU)	-1.9	-8.1	-15.4
Day Peak (MW)	91.0	-586.7	-836.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	229.4	-185.8	105.2	-150.8	2.0	0.0
Actual(MU)	226.9	-190.2	112.7	-156.6	0.9	-6.4
O/D/U/D(MU)	-2.6	-4.4	7.4	-5.8	-1.1	-6.4

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL	% Share
Central Sector	8090	13128	5062	1300	734	28314	39
State Sector	11220	19576	10586	3808	11	45200	61
Total	19311	32703	15648	5108	745	73514	100

G. Sourcewise generation (MU)

	NR	WR	SR	ER	NER	All India	% Share
Coal	539	1186	511	550	8	2794	76
Lignite	21	14	34	0	0	69	2
Hvdro	99	31	82	24	10	246	7
Nuclear	28	21	70	0	0	119	3
Gas, Naptha & Diesel	15	9	9	0	27	60	2
RES (Wind, Solar, Biomass & Others)	103	125	152	4	0	384	10
Total	805	1387	857	578	46	3673	100
Share of RES in total generation (%)	12.75	9.03	17.74	0.68	0.50	10.46	
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	28.53	12.81	35.45	4.77	22.55	20.40	

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.021
Based on State Max Demands	1.061

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: 14-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	113	726	0.0	8.4	-8.4	
4	765 kV	SASARAM-FATEHPUR	1	0	521	0.0	7.6	-7.6	
5	765 kV	GAYA-BALIA	1	0	626	0.0	10.0	-10.0	
6	400 kV	PUSAULI-VARANASI	1	27	108	0.0	1.1	-1.1	
7	400 kV	PUSAULI-ALLAHABAD	1	24	136	0.0	1.3	-1.3	
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	3	796	0.0	9.5	-9.5	
9	400 kV	PATNA-BALIA	4	0	1378	0.0	22.1	-22.1	
10	400 kV	BIHARSHARIFF-BALIA	2	114	316	0.0	5.3	-5.3	
11	400 kV	MOTIHARI-GORAKHPUR	2	0	631	0.0	9.1	-9.1	
12	400 kV	BIHARSHARIFF-VARANASI	2	0	357	0.0	5.3	-5.3	
13	220 kV	PUSAULI-SAHUPURI	1	1	143	0.0	1.8	-1.8	
14	132 kV	SONE NAGAR-RIHAND	1	0	0	0.0	0.0	0.0	
15	132 kV	GARWAH-RIHAND	1	25	0	0.3	0.0	0.3	
16	132 kV	KARMANASA-SAHUPURI	1	0	0	0.0	0.0	0.0	
17	132 kV	KARMANASA-CHANDAUJI	1	0	0	0.0	0.0	0.0	
						ER-NR	0.3	81.3	-81.0
Import/Export of ER (With WR)									
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	715	170	8.3	0.0	8.3	
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	460	547	0.0	3.1	-3.1	
3	765 kV	JHARSUGUDA-DURG	2	0	439	0.0	6.1	-6.1	
4	400 kV	JHARSUGUDA-RAIGARH	4	197	283	1.7	0.0	1.7	
5	400 kV	RANCHI-SIPAT	2	155	169	0.0	1.0	-1.0	
6	220 kV	BUDHIPADAR-RAIGARH	1	0	105	0.0	1.3	-1.3	
7	220 kV	BUDHIPADAR-KORBA	2	196	0	3.4	0.0	3.4	
						ER-WR	13.3	11.5	1.8
Import/Export of ER (With SR)									
1	HVDC	JEYPORE-GAZUWAKA B/B	2	0	553	0.0	12.5	-12.5	
2	HVDC	TALCHER-KOLAR BIPOLE	2	0	1984	0.0	44.0	-44.0	
3	765 kV	ANGUL-SRIKAKULAM	2	0	2441	0.0	48.0	-48.0	
4	400 kV	TALCHER-I/C	2	389	498	0.0	4.2	-4.2	
5	220 kV	BALMELA-UPPER-SILERRU	1	2	0	0.0	0.0	0.0	
						ER-SR	0.0	104.5	-104.5
Import/Export of ER (With NER)									
1	400 kV	BINAGURI-BONGAIGAON	2	0	443	0.0	5.3	-5.3	
2	400 kV	ALIPURDUAR-BONGAIGAON	2	0	570	0.0	6.4	-6.4	
3	220 kV	ALIPURDUAR-SALAKATI	2	10	112	0.0	1.0	-1.0	
						ER-NER	0.0	12.8	-12.8
Import/Export of NER (With NR)									
1	HVDC	BISWANATH CHARIAL-AGRA	2	0	503	0.0	11.7	-11.7	
						NER-NR	0.0	11.7	-11.7
Import/Export of WR (With NR)									
1	HVDC	CHAMPA-KURUKSHETRA	2	0	2508	0.0	44.4	-44.4	
2	HVDC	VINDHYACHAL B/B	-	450	0	8.9	0.0	8.9	
3	HVDC	MUNDRA-MOHINDERGARH	2	0	255	0.0	6.2	-6.2	
4	765 kV	GWALIOR-AGRA	2	0	2197	0.0	35.3	-35.3	
5	765 kV	GWALIOR-PHAGI	2	0	1937	0.0	28.9	-28.9	
6	765 kV	JABALPUR-ORAI	2	0	912	0.0	25.5	-25.5	
7	765 kV	GWALIOR-ORAI	1	868	0	13.4	0.0	13.4	
8	765 kV	SAINA-ORAI	1	0	1062	0.0	20.3	-20.3	
9	765 kV	BANASKANTHA-CHITORGARH	2	1344	0	17.7	0.0	17.7	
10	765 kV	VINDHYACHAL-VARANASI	2	0	2497	0.0	42.5	-42.5	
11	400 kV	ZERDA-KANKROLI	1	239	0	3.9	0.0	3.9	
12	400 kV	ZERDA-BHINMAL	1	274	102	2.4	0.0	2.4	
13	400 kV	VINDHYACHAL-RIHAND	1	969	0	20.6	0.0	20.6	
14	400 kV	RAPP-SHILAI PUR	2	225	420	0.0	2.2	-2.2	
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	94	0	0.5	0.0	0.5	
18	220 kV	MALANPUR-AURAIYA	1	57	6	1.3	0.0	1.3	
19	132 kV	GWALIOR-SAWALMADHOPUR	1	0	0	0.0	0.0	0.0	
20	132 kV	RAIGHAT-LALITPUR	2	0	0	0.0	0.0	0.0	
						WR-NR	68.8	206.2	-137.5
Import/Export of WR (With SR)									
1	HVDC	BHADRAWATI B/B	-	304	316	4.3	2.8	1.5	
2	HVDC	RAIGARH-PUGALUR	2	0	2000	0.0	23.1	-23.1	
3	765 kV	SOLAPUR-RAICHUR	2	418	1770	0.0	15.9	-15.9	
4	765 kV	WARDHA-NIZAMABAD	2	0	2031	0.0	34.8	-34.8	
5	400 kV	KOLHAPUR-KUDGI	2	1246	0	20.2	0.0	20.2	
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	25.9	76.7	-50.8

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 MANGDECHHU HEP 4*180MW)	148	0	35	0.8
	ER	400KV TALA-BINAGURI 1,2,4 (& 400KV MALBASE - BINAGURI) i.e. BINAGURI RECEIPT (from TALA HEP (6*170MW))	0	0	0	-1.9
	ER	220KV CHUKHA-BIRPARA 1&2 (& 220KV MALBASE - BIRPARA) i.e. BIRPARA RECEIPT (from CHUKHA HEP 4*84MW)	0	0	0	-0.9
	NER	132KV GELEPHU-SALAKATI	-7	0	-1	0.0
	NER	132KV MOTANGA-RANGIA	-13	0	3	0.1
NEPAL	NR	132KV MAHENDRANAGAR-TANAKPUR(NHPC)	-77	0	-63	-1.5
	ER	NEPAL IMPORT (FROM BIHAR)	-194	0	-55	-1.3
	ER	400KV DHALKEBAR-MUZAFFARPUR 1&2	-316	0	-218	-5.2
BANGLADESH	ER	BHERAMARA B/B HVDC (BANGLADESH)	-728	-487	-559	-13.4
	NER	132KV COMILLA-SURAJMANI NAGAR 1&2	-108	0	-85	-2.0