



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: 10th 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 09.01.2022.

महोदय/Dear Sir,

आईईजीसी-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 09-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 09th 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: 10-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)	45767	48585	37552	19483	2499	153886
Peak Shortage (MW)	250	0	0	286	0	536
Energy Met (MU)	870	1114	945	385	44	3359
Hydro Gen (MU)	99	22	83	25	10	238
Wind Gen (MU)	9	35	36	-	-	80
Solar Gen (MU)*	53.36	34.90	88.83	4.61	0.26	182
Energy Shortage (MU)	5.48	0.00	0.00	2.78	0.00	8.26
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	46073	53587	47051	19659	2545	163602
Time Of Maximum Demand Met (From NLDC SCADA)	18:29	10:57	09:56	18:52	17:48	10:42

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	0.030	0.00	0.00	2.38	2.38	73.53	24.08

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	5723	150	109.6	48.3	-0.5	203	0.75
	Haryana	5124	0	98.4	53.7	-0.9	197	0.00
	Rajasthan	11408	0	203.9	57.3	-0.5	412	0.00
	Delhi	3760	0	59.9	49.2	-1.3	194	0.02
	UP	16276	0	273.7	79.6	-5.5	163	0.00
	Uttarakhand	1904	0	36.2	25.9	0.2	228	0.00
	HP	1712	0	31.2	24.1	-0.5	267	0.06
	J&K(UT) & Ladakh(UT)	2707	250	53.7	49.1	-1.0	104	4.65
	Chandigarh	209	0	3.6	3.8	-0.1	37	0.00
	Chhattisgarh	3818	0	82.2	27.2	-0.1	272	0.00
WR	Gujarat	15891	0	328.6	188.3	-0.8	495	0.00
	MP	9454	0	187.5	117.1	-5.4	482	0.00
	Maharashtra	22839	0	461.7	133.7	-5.5	598	0.00
	Goa	530	0	10.8	10.1	0.4	54	0.00
	DD	316	0	7.1	6.8	0.3	49	0.00
	DNH	814	0	18.9	19.0	-0.1	50	0.00
	AMNSIL	796	0	17.5	10.8	0.0	280	0.00
SR	Andhra Pradesh	9729	0	182.1	83.7	0.5	463	0.00
	Telangana	11040	0	206.8	100.2	0.5	540	0.00
	Karnataka	11531	0	209.7	56.6	-0.2	733	0.00
	Kerala	3417	0	70.4	51.2	0.4	274	0.00
	Tamil Nadu	12777	0	269.6	152.5	1.1	542	0.00
	Puducherry	332	0	6.9	7.1	-0.2	55	0.00
	Bihar	4761	0	84.0	74.8	-0.9	401	0.22
ER	DVC	3115	0	66.4	-33.6	-1.3	268	1.72
	Jharkhand	1640	0	32.0	21.4	0.8	147	0.84
	Odisha	5253	0	92.8	43.8	-0.2	342	0.00
	West Bengal	5706	0	108.0	2.5	-0.7	240	0.00
	Sikkim	92	0	1.5	1.6	-0.1	24	0.00
NER	Arunachal Pradesh	142	0	2.4	2.4	-0.2	27	0.00
	Assam	1388	0	24.1	20.5	-0.3	93	0.00
	Manipur	233	0	3.2	3.5	-0.3	13	0.00
	Meghalaya	369	0	6.9	5.9	0.1	38	0.00
	Mizoram	115	0	1.9	1.5	-0.1	11	0.00
	Nagaland	136	0	2.2	2.1	0.0	28	0.00
	Tripura	218	0	3.5	2.1	-0.2	35	0.00

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

	Bhutan	Nepal	Bangladesh
Actual (MU)	-1.7	-7.3	-13.7
Day Peak (MW)	115.0	-626.8	-595.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	145.1	-145.3	125.5	-131.6	6.2	0.0
Actual(MU)	126.8	-143.4	140.4	-134.4	6.2	-6.3
O/D/U/D(MU)	-18.3	-0.1	14.9	-2.8	0.0	-6.3

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL	% Share
Central Sector	8471	13953	7022	1500	684	31629	43
State Sector	10185	16984	10173	4308	11	41660	57
Total	18657	30936	17195	5808	695	73290	100

G. Sourcewise generation (MU)

	NR	WR	SR	ER	NER	All India	% Share
Coal	508	1144	474	528	7	2662	77
Lignite	18	14	36	0	0	68	2
Hvdro	99	22	83	25	10	238	7
Nuclear	33	22	64	0	0	119	3
Gas, Naptha & Diesel	15	8	9	0	25	57	2
RES (Wind, Solar, Biomass & Others)	88	71	150	5	0	314	9
Total	762	1281	816	557	43	3458	100
Share of RES in total generation (%)	11.61	5.55	18.39	0.83	0.61	9.09	
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	28.96	8.95	36.41	5.26	23.41	19.42	

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.032
Based on State Max Demands	1.071

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: 10-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	173	742	0.0	6.3	-6.3
4	765 kV	SASARAM-FATEHPUR	1	0	577	0.0	7.2	-7.2
5	765 kV	GAYA-BALIA	1	0	538	0.0	7.8	-7.8
6	400 kV	PUSAULI-VARANASI	1	31	103	0.0	1.0	-1.0
7	400 kV	PUSAULI-ALLAHABAD	1	63	94	0.0	0.3	-0.3
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	0	869	0.0	8.9	-8.9
9	400 kV	PATNA-BALIA	4	0	1253	0.0	18.5	-18.5
10	400 kV	BIHARSHARIFF-BALIA	2	77	308	0.0	3.3	-3.3
11	400 kV	MOTIHARI-GORAKHPUR	2	0	550	0.0	7.6	-7.6
12	400 kV	BIHARSHARIFF-VARANASI	2	31	304	0.0	3.1	-3.1
13	220 kV	PUSAULI-SAHUPURI	1	0	115	0.0	1.4	-1.4
14	132 kV	SONE NAGAR-RIHAND	1	0	0	0.0	0.0	0.0
15	132 kV	KARWAH-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	65.2	-64.8
Import/Export of ER (With WR)								
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	753	245	3.7	0.0	3.7
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	291	1309	0.0	11.0	-11.0
3	765 kV	JHARSUGUDA-DURG	2	0	702	0.0	11.1	-11.1
4	400 kV	JHARSUGUDA-RAIGARH	4	105	701	0.0	8.6	-8.6
5	400 kV	RANCHI-SIPAT	2	110	386	0.0	3.8	-3.8
6	220 kV	BUDHIPADAR-RAIGARH	1	0	175	0.0	2.8	-2.8
7	220 kV	BUDHIPADAR-KORBA	2	237	6	2.4	0.0	2.4
						ER-WR	6.1	-31.2
Import/Export of ER (With SR)								
1	HVDC	JEYPORE-GAZUWAKA B/B	2	0	390	0.0	8.7	-8.7
2	HVDC	TALCHER-KOLAR BIPOLE	2	15	1199	0.0	3.5	-3.5
3	765 kV	ANGUL-SRIKAKULAM	2	0	3433	0.0	59.0	-59.0
4	400 kV	TALCHER-I/C	2	1924	196	35.6	0.0	35.6
5	220 kV	BALMELA-UPPER-SILERRU	1	2	0	0.0	0.0	0.0
						ER-SR	71.1	-71.1
Import/Export of ER (With NER)								
1	400 kV	BINAGURI-BONGAIGAON	2	67	253	0.0	2.9	-2.9
2	400 kV	ALIPURDUAR-BONGAIGAON	2	69	351	0.0	3.0	-3.0
3	220 kV	ALIPURDUAR-SALAKATI	2	7	67	0.0	0.6	-0.6
						ER-NER	6.5	-6.5
Import/Export of <null> (With <null>)								
No Records Found								
						NER-NR	0.0	0.0
Import/Export of WR (With NR)								
1	HVDC	CHAMPA-KURUKSHETRA	2	0	2013	0.0	31.5	-31.5
2	HVDC	VINDHYACHAL B/B	-	230	0	6.1	0.0	6.1
3	HVDC	MUNDRA-MOHINDERGARH	2	0	253	0.0	6.2	-6.2
4	765 kV	GWALIOR-AGRA	2	539	1875	0.6	22.5	-21.9
5	765 kV	GWALIOR-PHAGI	2	0	1534	0.0	22.2	-22.2
6	765 kV	JABALPUR-ORAI	2	91	619	0.0	15.2	-15.2
7	765 kV	GWALIOR-ORAI	1	893	0	14.7	0.0	14.7
8	765 kV	SATNA-ORAI	1	0	887	0.0	16.6	-16.6
9	765 kV	BANASKANTHA-CHITORGARH	2	1539	0	24.7	0.0	24.7
10	765 kV	VINDHYACHAL-VARANASI	2	0	2275	0.0	33.0	-33.0
11	400 kV	ZERDA-KANKROLI	1	342	0	5.2	0.0	5.2
12	400 kV	ZERDA-BHINMAL	1	428	0	6.3	0.0	6.3
13	400 kV	VINDHYACHAL-RIHAND	1	962	0	21.2	0.0	21.2
14	400 kV	RAPP-SHUJALPUR	2	254	229	2.2	0.7	1.5
15	220 kV	BHANPURA-RANPUR	1	0	0	0.0	0.0	0.0
16	220 kV	BHANPURA-MORAK	1	0	30	0.0	0.5	-0.5
17	220 kV	MEHGAON-AURAIYA	1	127	0	0.9	0.0	0.9
18	220 kV	MALANPUR-AURAIYA	1	92	0	1.5	0.0	1.5
19	132 kV	GWALIOR-SAWAIMADHOPUR	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	83.3	148.3
Import/Export of WR (With SR)								
1	HVDC	BHADRAWATI B/B	-	0	820	0.0	16.4	-16.4
2	HVDC	RAIGARH-PUGALUR	2	0	3510	0.0	52.8	-52.8
3	765 kV	SOLAPUR-RAICHUR	2	667	2505	0.8	18.1	-17.3
4	765 kV	WARDHA-NIZAMABAD	2	0	3279	0.0	45.6	-45.6
5	400 kV	KOLHAPUR-KUDGI	2	1344	0	20.0	0.0	20.0
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	68	1.3	0.0	1.3
						WR-SR	22.1	133.0
								-110.9

INTERNATIONAL EXCHANGES			Import(+ve)/Export(-ve)			
State	Region	Line Name	Max (MW)	Min (MW)	Avg (MW)	Energy Exchange (MTU)
BHUTAN	ER	400kV MANGDECHHU-ALIPURDUAR 1,2&3 i.e. ALIPURDUAR RECEIPT (from MANGDECHHU HEP 4*180MW)	140	0	34	0.8
	ER	400kV TALA-BINAGURI 1,2,4 (& 400kV MALBASE - BINAGURI) i.e. BINAGURI RECEIPT (from TALA HEP (6*170MW))	0	0	0	-1.6
	ER	220kV CHUKHA-BIRPARA 1&2 (& 220kV MALBASE - BIRPARA) i.e. BIRPARA RECEIPT (from CHUKHA HEP 4*84MW)	5	0	-38	-0.9
	NER	132kV GELEPHU-SALAKATI	-9	-2	-3	-0.1
	NER	132kV MOTANGA-RANGIA	-17	-3	-4	-0.1
NEPAL	NR	132kV MAHENDRANAGAR-TANAKPUR(NHPC)	-75	0	-64	-1.5
	ER	NEPAL IMPORT (FROM BIHAR)	-198	0	-47	-1.1
	ER	400kV DHALKEBAR-MUZAFFARPUR 1&2	-354	-95	-192	-4.6
BANGLADESH	ER	BHERAMARA B/B HVDC (BANGLADESH)	-491	-480	-484	-11.6
	NER	132kV COMILLA-SURAJMANI NAGAR 1&2	-104	0	-87	-2.1