



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: 03rd 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 02.01.2022.

महोदय/Dear Sir,

आईईजीसी-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 02-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 02nd 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: 03-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)	50430	52280	35676	19339	2453	160178
Peak Shortage (MW)	250	0	0	370	0	620
Energy Met (MU)	993	1200	859	387	43	3483
Hydro Gen (MU)	106	29	65	20	10	230
Wind Gen (MU)	22	60	69	-	-	150
Solar Gen (MU)*	60.59	32.97	88.72	4.58	0.28	187
Energy Shortage (MU)	4.65	1.18	0.00	2.82	0.00	8.65
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	50446	59167	43386	19507	2533	170299
Time Of Maximum Demand Met (From NLDC SCADA)	11:21	10:55	09:26	17:51	18:00	10:54

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	0.23	1.52	1.75	75.25	23.01

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	6413	0	119.2	67.6	-1.1	96	0.00
	Haryana	6107	0	117.1	66.9	1.9	254	0.00
	Rajasthan	14483	0	258.1	67.3	-2.8	209	0.00
	Delhi	4034	0	66.3	55.0	-1.2	187	0.00
	UP	18101	0	297.8	87.5	0.3	421	0.00
	Uttarakhand	2136	0	38.2	26.2	-0.1	127	0.00
	HP	1772	0	32.3	25.8	-0.3	124	0.00
	J&K(UT) & Ladakh(UT)	2865	250	60.3	54.9	0.5	159	4.65
	Chandigarh	210	0	3.4	3.7	-0.3	17	0.00
	Chhattisgarh	3556	0	76.0	28.1	-0.5	250	0.00
WR	Gujarat	16445	391	339.3	181.8	2.0	743	1.18
	MP	13798	0	264.1	166.9	-2.0	460	0.00
	Maharashtra	23321	0	467.6	127.5	-3.4	756	0.00
	Goa	547	0	11.5	10.3	0.6	31	0.00
	DD	274	0	6.0	6.0	0.0	81	0.00
	DNH	800	0	18.2	18.1	0.1	53	0.00
	AMNSIL	798	0	17.6	11.2	-0.4	255	0.00
	Andhra Pradesh	8910	0	169.7	69.1	-1.5	397	0.00
	Telangana	10432	0	194.1	84.3	-0.2	564	0.00
	Karnataka	10742	0	191.2	39.8	-1.1	679	0.00
SR	Kerala	3427	0	69.1	51.7	0.1	240	0.00
	Tamil Nadu	10730	0	228.5	125.3	-4.7	549	0.00
	Puducherry	304	0	6.2	7.0	-0.8	51	0.00
	Bihar	4804	0	81.9	72.1	0.5	269	0.00
	DVC	3214	0	66.6	-35.3	-1.4	328	1.23
	Jharkhand	1524	0	28.3	24.0	-0.9	184	1.59
	Odisha	5330	0	106.9	65.3	-0.5	435	0.00
	West Bengal	5458	0	102.3	-11.5	-0.6	248	0.00
	Sikkim	92	0	1.4	1.8	-0.4	21	0.00
	Arunachal Pradesh	142	0	2.5	2.3	0.0	40	0.00
NER	Assam	1376	0	22.8	16.8	-0.3	88	0.00
	Manipur	229	0	3.4	3.5	0.0	46	0.00
	Meghalaya	353	0	6.8	6.2	-0.1	52	0.00
	Mizoram	115	0	1.9	1.4	-0.1	54	0.00
	Nagaland	134	0	2.4	2.1	0.2	18	0.00
	Tripura	209	0	3.4	3.6	-0.2	43	0.00

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

	Bhutan	Nepal	Bangladesh
Actual (MU)	-1.0	-5.3	-16.4
Day Peak (MW)	103.0	-303.2	-813.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	220.1	-138.4	50.7	-136.2	3.8	0.0
Actual(MU)	214.6	-119.2	32.7	-138.7	3.1	-7.5
OD/UD(MU)	-5.5	19.2	-18.0	-2.5	-0.7	-7.5

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL	% Share
Central Sector	8886	14443	6352	500	664	30844	43
State Sector	9455	17996	9793	4268	112	41623	57
Total	18341	32438	16145	4768	776	72468	100

G. Sourcewise generation (MU)

	NR	WR	SR	ER	NER	All India	% Share
Coal	514	1162	466	536	8	2686	75
Lignite	24	15	0	0	0	78	2
Hydro	106	29	65	20	10	230	6
Nuclear	33	25	70	0	0	127	4
Gas, Naptha & Diesel	15	10	9	0	26	60	2
RES (Wind, Solar, Biomass & Others)	108	94	188	5	0	395	11
Total	800	1334	837	561	44	3576	100

Share of RES in total generation (%)	13.49	7.05	22.43	0.82	0.63	11.03
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	30.84	11.03	38.55	4.47	23.65	21.03

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.023
Based on State Max Demands	1.024

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: 03-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	21	868	0.0	11.3	-11.3
4	765 kV	SASARAM-FATEHPUR	1	0	587	0.0	8.8	-8.8
5	765 kV	GAYA-BALIA	1	0	659	0.0	10.7	-10.7
6	400 kV	PUSAULI-VARANASI	1	24	112	0.0	1.3	-1.3
7	400 kV	PUSAULI-ALLAHABAD	1	0	202	0.0	2.8	-2.8
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	0	1030	0.0	13.1	-13.1
9	400 kV	PATNA-BALIA	4	0	1505	0.0	23.8	-23.8
10	400 kV	BIHARSHARIFF-BALIA	2	0	388	0.0	5.5	-5.5
11	400 kV	MOTIHARI-GORAKHPUR	2	0	664	0.0	10.4	-10.4
12	400 kV	BIHARSHARIFF-VARANASI	2	0	398	0.0	6.1	-6.1
13	220 kV	PUSAULI-SAHUPURI	1	0	142	0.0	1.9	-1.9
14	132 kV	SONE NAGAR-RIHAND	1	0	0	0.0	0.0	0.0
15	132 kV	GARWAH-RIHAND	1	25	0	0.5	0.0	0.5
16	132 kV	KARMANASA-SAHUPURI	1	0	0	0.0	0.0	0.0
17	132 kV	KARMANASA-CHANDALI	1	0	0	0.0	0.0	0.0
ER-NR						0.5	95.7	-95.2
Import/Export of ER (With WR)								
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	827	190	7.7	0.0	7.7
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	877	540	1.0	0.0	1.0
3	765 kV	JHARSUGUDA-DURG	2	150	152	0.0	0.2	-0.2
4	400 kV	JHARSUGUDA-RAIGARH	4	298	233	1.4	0.0	1.4
5	400 kV	RANCHI-SIPAT	2	261	157	0.1	0.0	0.1
6	220 kV	BUDHIPADAR-RAIGARH	1	64	60	0.1	0.0	0.1
7	220 kV	BUDHIPADAR-KORBA	2	259	0	3.9	0.0	3.9
ER-WR						14.3	0.2	14.0
Import/Export of ER (With SR)								
1	HVDC	JEYPORE-GAZUWAKA B/B	2	0	396	0.0	8.7	-8.7
2	HVDC	TALCHER-KOLAR BIPOLE	2	0	1975	0.0	32.8	-32.8
3	765 kV	ANGUL-SRIKAKULAM	2	0	2685	0.0	46.6	-46.6
4	400 kV	TALCHER-I/C	2	920	763	0.9	0.0	0.9
5	220 kV	BALIMELA-UPPER-SILERRU	1	2	0	0.0	0.0	0.0
ER-SR						0.0	88.1	-88.1
Import/Export of ER (With NER)								
1	400 kV	BINAGURI-BONGAIGAON	2	117	237	0.0	1.6	-1.6
2	400 kV	ALIPURDUAR-BONGAIGAON	2	139	334	0.0	1.2	-1.2
3	220 kV	ALIPURDUAR-SALAKATI	2	15	66	0.0	0.3	-0.3
ER-NER						0.0	3.2	-3.2
Import/Export of NER (With NR)								
1	HVDC	BISWANATH CHARIALI-AGRA	2	0	0	0.0	0.0	0.0
NER-NR						0.0	0.0	0.0
Import/Export of WR (With NR)								
1	HVDC	CHAMPA-KURUKSHETRA	2	0	1002	0.0	15.0	-15.0
2	HVDC	VINDHYACHAL B/B	-	202	0	6.1	0.0	6.1
3	HVDC	MUNDIRA-MOHINDERGARH	2	0	254	0.0	6.2	-6.2
4	765 kV	GWALIOR-AGRA	2	0	2106	0.0	35.6	-35.6
5	765 kV	GWALIOR-PHAGI	2	0	2417	0.0	34.1	-34.1
6	765 kV	JABALPUR-ORAI	2	0	934	0.0	33.3	-33.3
7	765 kV	GWALIOR-ORAI	1	882	0	15.7	0.0	15.7
8	765 kV	SATNA-ORAI	1	0	1080	0.0	21.0	-21.0
9	765 kV	BANASKANTHA-CHITORGARH	2	1329	122	17.0	0.0	17.0
10	765 kV	VINDHYACHAL-VARANASI	2	0	2804	0.0	46.0	-46.0
11	400 kV	ZERDA-KANKROLI	1	284	0	4.4	0.0	4.4
12	400 kV	ZERDA-BHINMAL	1	327	0	4.8	0.0	4.8
13	400 kV	VINDHYACHAL-RIHAND	1	968	0	20.4	0.0	20.4
14	400 kV	RAPP-SHUJALPUR	2	41	426	0.0	3.5	-3.4
15	220 kV	BHANPURA-RANPUR	1	0	0	0.0	0.0	0.0
16	220 kV	BHANPURA-MORAK	1	0	30	0.0	0.7	-0.7
17	220 kV	MEHGAON-AURAIYA	1	120	0	0.7	0.0	0.7
18	220 kV	MALANPUR-AURAIYA	1	72	2	1.5	0.0	1.5
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						70.6	195.3	-124.7
Import/Export of WR (With SR)								
1	HVDC	BHADRAWATI B/B	-	990	316	10.1	3.0	7.2
2	HVDC	RAIGARH-PUGALUR	2	1929	0	25.9	0.0	25.9
3	765 kV	SOLAPUR-RAICHUR	2	1528	1467	4.7	7.4	-2.7
4	765 kV	WARDHA-NIZAMABAD	2	0	2519	0.0	37.0	-37.0
5	400 kV	KOLHAPUR-KUDGI	2	1567	0	24.8	0.0	24.8
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	72	1.3	0.0	1.3
WR-SR						66.8	47.3	19.4

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)	161	0	60	1.4
	ER	400kV TALA-BINAGURI 1,2,4 (& 400kV MALBASE - BINAGURI) i.e. BINAGURI RECEIPT (from TALA HEP (6*170MW))	0	0	0	-1.5
	ER	220kV CHUKHA-BIRPARA 1&2 (& 220kV MALBASE - BIRPARA) i.e. BIRPARA RECEIPT (from CHUKHA HEP 4*84MW)	0	0	0	-1.0
	NER	132kV GELEPHU-SALAKATI	-8	0	-3	-0.1
	NER	132kV MOTANGA-RANGIA	-13	-1	-1	0.0
NEPAL	NR	132kV MAHENDRANAGAR-TANAKPUR(NHPC)	-76	0	-65	-1.6
	ER	NEPAL IMPORT (FROM BIHAR)	93	0	29	0.7
	ER	400kV DHALKEBAR-MUZAFFARPUR 1&2	-320	0	-185	-4.5
BANGLADESH	ER	BHERAMARA B/B HVDC (BANGLADESH)	-723	-404	-604	-14.5
	NER	132kV COMILLA-SURAJMANI NAGAR 1&2	-90	0	-79	-1.9