



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: 02nd Feb 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 01.02.2022.

महोदय/Dear Sir,

आईईजीसी-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 01-फ़रवरी-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 01st February 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: 02-Feb-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)	52594	56312	43020	20942	2559	175427
Peak Shortage (MW)	1473	0	0	199	0	1672
Energy Met (MU)	1058	1309	1051	412	47	3877
Hydro Gen (MU)	98	41	119	25	9	292
Wind Gen (MU)	9	27	19	-	-	55
Solar Gen (MU)*	74.24	44.70	102.22	5.06	0.17	226
Energy Shortage (MU)	9.09	0.00	0.00	3.66	0.00	12.75
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	54791	64073	52719	21118	2655	192024
Time Of Maximum Demand Met (From NLDC SCADA)	11:17	10:40	12:34	18:12	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	0.041	0.00	1.12	7.59	8.71	77.71	13.57

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	6865	0	123.8	36.7	-1.4	75	0.78
	Haryana	6418	0	125.9	69.7	1.7	322	2.14
	Rajasthan	15471	0	275.8	55.0	-0.7	176	0.00
	Delhi	4572	0	73.5	61.4	-0.6	225	0.00
	UP	18744	0	325.1	79.9	0.9	481	0.00
	Uttarakhand	2229	150	40.5	29.6	1.7	311	1.52
	HP	1885	0	33.0	25.0	-0.1	168	0.00
	J&K(UT) & Ladakh(UT)	3026	300	56.3	56.0	-4.6	204	4.65
WR	Chandigarh	240	0	3.8	3.8	-0.1	42	0.00
	Chhattisgarh	4284	0	90.6	33.6	-0.6	173	0.00
	Gujarat	16709	0	359.6	218.5	4.1	643	0.00
	MP	15252	0	295.7	180.9	-1.6	572	0.00
	Maharashtra	25355	0	507.9	145.0	-3.4	657	0.00
	Goa	583	0	11.7	11.1	0.1	23	0.00
	DD	331	0	7.4	7.1	0.3	64	0.00
	DNH	819	0	19.0	19.0	0.0	43	0.00
SR	AMNSIL	802	0	16.8	10.4	-0.2	270	0.00
	Andhra Pradesh	10095	0	190.9	71.1	1.6	972	0.00
	Telangana	11544	0	212.7	66.9	0.2	493	0.00
	Karnataka	13065	0	241.4	87.2	4.7	1539	0.00
	Kerala	3937	0	81.0	55.1	-0.5	247	0.00
	Tamil Nadu	14796	0	316.9	185.5	2.3	946	0.00
	Puducherry	373	0	7.7	7.7	0.0	58	0.00
	ER	Bihar	5773	0	89.8	78.1	0.1	306
DVC		3351	0	68.3	-29.6	0.0	328	1.62
Jharkhand		1532	0	30.9	20.9	-0.1	136	1.62
Odisha		5396	0	96.0	36.6	-1.3	254	0.00
West Bengal		6697	0	125.4	9.7	0.0	436	0.00
Sikkim		118	0	2.1	2.1	0.0	33	0.00
NER	Arunachal Pradesh	152	0	2.8	2.5	0.1	69	0.00
	Assam	1362	0	25.1	19.2	-0.1	96	0.00
	Manipur	256	0	3.6	3.7	-0.1	31	0.00
	Meghalaya	404	0	7.7	6.1	0.3	60	0.00
	Mizoram	139	0	2.0	1.8	-0.3	16	0.00
	Nagaland	152	0	2.3	2.1	0.1	30	0.00
	Tripura	234	0	3.7	2.0	-0.2	20	0.00

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

	Bhutan	Nepal	Bangladesh
Actual (MU)	-2.5	-11.3	-19.8
Day Peak (MW)	-343.0	-721.3	-849.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	134.5	-105.4	100.9	-134.9	4.9	0.0
Actual(MU)	109.7	-97.8	121.2	-139.2	3.6	-2.4
O/D/U/D(MU)	-24.8	7.6	20.4	-4.3	-1.3	-2.4

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL	% Share
Central Sector	5403	14098	6772	2356	674	29302	43
State Sector	6705	17867	9388	5420	11	39391	57
Total	12108	31964	16160	7776	685	68693	100

G. Sourcewise generation (MU)

	NR	WR	SR	ER	NER	All India	% Share
Coal	699	1282	506	561	10	3058	77
Lignite	27	10	41	0	0	78	2
Hvdro	98	41	120	25	9	292	7
Nuclear	28	21	69	0	0	119	3
Gas, Naptha & Diesel	15	13	9	0	29	66	2
RES (Wind, Solar, Biomass & Others)	109	73	152	5	0	339	9
Total	975	1440	897	591	48	3951	100

Share of RES in total generation (%)	11.16	5.04	16.95	0.85	0.35	8.57
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	24.02	9.40	38.03	5.04	18.26	18.96

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.017
Based on State Max Demands	1.057

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: 02-Feb-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	0	453	0.0	5.8	-5.8	
4	765 kV	SASARAM-FATEHPUR	1	0	435	0.0	7.5	-7.5	
5	765 kV	GAYA-BALIA	1	0	545	0.0	7.8	-7.8	
6	400 kV	PUSAULI-VARANASI	1	15	53	0.0	0.4	-0.4	
7	400 kV	PUSAULI-ALLAHABAD	1	85	82	0.0	0.2	-0.2	
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	11	687	0.0	7.2	-7.2	
9	400 kV	PATNA-BALIA	4	0	1094	0.0	18.4	-18.4	
10	400 kV	BIHARSHARIF-BALIA	2	29	276	0.0	4.3	-4.3	
11	400 kV	MOTIHARI-GORAKHPUR	2	0	387	0.0	5.6	-5.6	
12	400 kV	BIHARSHARIF-VARANASI	2	3	229	0.0	2.6	-2.6	
13	220 kV	SAHPURI-KARMANASA	1	4	108	0.0	1.2	-1.2	
14	132 kV	SONEG NAGAR-RIHAND	1	0	139	0.0	0.0	0.0	
15	132 kV	GARWAH-RIHAND	1	25	0	0.6	0.0	0.6	
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	0.6	60.9	-60.4
Import/Export of ER (With WR)									
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	94	745	0.0	7.5	-7.5	
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	370	617	0.0	5.1	-5.1	
3	765 kV	JHARSUGUDA-DURG	2	61	258	0.0	3.1	-3.1	
4	400 kV	JHARSUGUDA-RAIGARH	4	0	409	0.0	5.9	-5.9	
5	400 kV	RANCHI-SIPAT	2	101	199	0.0	1.8	-1.8	
6	220 kV	BUDHIPADAR-RAIGARH	1	0	140	0.0	2.3	-2.3	
7	220 kV	BUDHIPADAR-KORBA	2	126	0	1.2	0.0	1.2	
						ER-WR	1.2	25.8	-24.5
Import/Export of ER (With SR)									
1	HVDC	JEYPORE-GAZUWAKA B/B	2	0	430	0.0	9.6	-9.6	
2	HVDC	TALCHER-KOLAR BIPOLE	2	0	1988	0.0	40.1	-40.1	
3	765 kV	ANGUL-SRIKAKULAM	2	0	2590	0.0	49.6	-49.6	
4	400 kV	TALCHER/JC	2	503	630	0.0	2.8	-2.8	
5	220 kV	BALIMELA-UPPER-SILERRU	1	2	0	0.0	0.0	0.0	
						ER-SR	0.0	99.3	-99.3
Import/Export of ER (With NER)									
1	400 kV	BINAGURI-BONGAIGAON	2	266	63	2.2	0.1	2.1	
2	400 kV	ALIPURDUAR-BONGAIGAON	2	371	11	4.5	0.0	4.5	
3	220 kV	ALIPURDUAR-SALAKATI	2	67	2	0.7	0.0	0.7	
						ER-NER	7.4	0.1	7.3
Import/Export of NER (With NR)									
1	HVDC	BISWANATH CHARIALI-AGRA	2	491	0	11.5	0.0	11.5	
						NER-NR	11.5	0.0	11.5
Import/Export of WR (With NR)									
1	HVDC	CHAMPA-KURUKSHETRA	2	0	1005	0.0	23.8	-23.8	
2	HVDC	VINDHYACHAL B/B	-	451	0	12.1	0.0	12.1	
3	HVDC	MUNDRA-MOHENDERGARH	2	0	128	0.0	3.1	-3.1	
4	765 kV	GWALIOR-AGRA	2	0	2212	0.0	25.6	-25.6	
5	765 kV	GWALIOR-PHAGI	2	0	1973	0.0	31.2	-31.2	
6	765 kV	JABALPUR-ORAI	2	0	1087	0.0	26.3	-26.3	
7	765 kV	GWALIOR-ORAI	1	979	0	17.3	0.0	17.3	
8	765 kV	SATNA-ORAI	1	0	1091	0.0	19.2	-19.2	
9	765 kV	BANASKANTHA-CHITORGARH	2	2205	0	41.1	0.0	41.1	
10	765 kV	VINDHYACHAL-VARANASI	2	0	2265	0.0	32.6	-32.6	
11	400 kV	ZERDA-KANKROLI	1	415	0	7.5	0.0	7.5	
12	400 kV	ZERDA-BHINMAL	1	616	0	8.9	0.0	8.9	
13	400 kV	VINDHYACHAL-RIHAND	1	490	0	11.2	0.0	11.2	
14	400 kV	RAPP-SHUALPUR	2	370	459	1.8	1.7	0.1	
15	220 kV	BHANPURA-RANPUR	1	0	0	0.0	0.0	0.0	
16	220 kV	BHANPURA-MORAK	1	0	30	0.0	1.5	-1.5	
17	220 kV	MEHGAON-AURAIYA	1	149	0	1.5	0.0	1.5	
18	220 kV	MALANPUR-AURAIYA	1	105	0	2.4	0.0	2.4	
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	103.7	165.1	-61.4
Import/Export of WR (With SR)									
1	HVDC	BHADRAWATI B/B	-	293	515	0.0	11.0	-11.0	
2	HVDC	RAIGARH-PUGALUR	2	0	1001	0.0	14.7	-14.7	
3	765 kV	SOLAPUR-RAICHUR	2	605	1612	1.1	15.8	-14.7	
4	765 kV	WARDHA-NIZAMABAD	2	0	2426	0.0	36.2	-36.2	
5	400 kV	KOLHAPUR-KUDGI	2	1036	0	14.9	0.0	14.9	
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	80	1.3	0.0	1.3	
						WR-SR	17.3	77.7	-60.4

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)	119	0	0	0.0
	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	0.0
	NER	132kV GELEPHU-SALAKATI	-19	-4	-12	-0.3
	NER	132kV MOTANGA-RANGIA	-14	8	-3	-0.1
	NR	132kV MAHENDRANAGAR-TANAKPUR(NHPC)	-72	0	-68	-1.6
NEPAL	ER	NEPAL IMPORT (FROM BIHAR)	-334	-10	-167	-4.0
	ER	400kV DHALKEBAR-MUZAFFARPUR 1&2	-315	0	-235	-5.6
BANGLADESH	ER	BHERAMARA B/B HVDC (BANGLADESH)	-746	-701	-734	-17.6
	NER	132kV COMILLA-SURAJMANI NAGAR 1&2	-103	0	-90	-2.2