



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 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 02.02.2022.

महोदय/Dear Sir,

आईईजीसी-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 02-फरवरी-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 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: 03-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)	54449	56827	43791	20302	2647	178016
Peak Shortage (MW)	623	0	300	388	0	1311
Energy Met (MU)	1076	1317	1058	408	46	3904
Hydro Gen (MU)	98	41	110	26	9	283
Wind Gen (MU)	28	56	19	-	-	103
Solar Gen (MU)*	74.80	44.72	107.25	5.01	0.33	232
Energy Shortage (MU)	9.39	0.00	0.89	3.36	0.00	13.64
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	55851	63920	53125	20792	2716	192470
Time Of Maximum Demand Met (From NLDC SCADA)	18:44	11:30	10:53	18:43	18:30	11:30

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	0.028	0.00	0.34	3.30	3.63	79.69	16.68

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	7021	0	126.1	36.9	-2.0	57	0.00
	Haryana	6554	0	125.6	74.0	2.4	348	4.05
	Rajasthan	15319	0	280.0	41.2	-0.1	491	0.00
	Delhi	4648	0	73.4	61.8	-1.3	194	0.00
	UP	19088	0	327.6	91.0	0.4	318	0.00
	Uttarakhand	2371	0	43.4	32.0	1.9	341	0.69
	HP	1968	0	35.3	26.7	0.8	285	0.00
	J&K(UT) & Ladakh(UT)	3180	0	60.1	57.2	-2.3	413	4.65
	Chandigarh	253	0	4.3	4.2	0.1	58	0.00
	Chhattisgarh	4403	0	92.1	39.1	0.9	368	0.00
WR	Gujiarat	16307	0	351.9	212.4	-1.7	860	0.00
	MP	15506	0	300.6	184.0	-0.6	585	0.00
	Maharashtra	25568	0	516.5	149.1	-4.6	569	0.00
	Goa	582	0	12.3	11.5	0.5	62	0.00
	DD	341	0	7.6	7.3	0.3	71	0.00
	DNH	850	0	19.5	19.4	0.1	48	0.00
	AMNSIL	783	0	16.5	9.9	0.1	335	0.00
SR	Andhra Pradesh	10335	0	193.6	73.1	0.9	540	0.89
	Telangana	11386	0	212.2	70.9	1.0	801	0.00
	Karnataka	13428	0	244.1	98.8	2.1	923	0.00
	Kerala	3938	0	80.8	55.3	-0.1	219	0.00
	Tamil Nadu	15120	0	319.3	188.4	0.4	366	0.00
	Puducherry	380	0	7.7	7.8	-0.2	28	0.00
	Bihar	6541	0	89.2	79.0	-1.0	371	0.00
ER	DVC	3214	0	68.8	-29.6	-0.3	262	1.16
	Jharkhand	1573	0	30.4	20.5	-0.4	144	2.20
	Odisha	5338	0	95.8	32.6	-0.4	383	0.00
	West Bengal	6621	0	121.7	15.1	0.4	391	0.00
NER	Sikkim	116	0	1.9	2.1	-0.2	22	0.00
	Arunachal Pradesh	152	0	2.7	2.8	-0.1	29	0.00
	Assam	1477	0	25.0	18.1	0.5	102	0.00
	Manipur	250	0	3.6	3.6	0.0	26	0.00
	Meghalaya	383	0	7.4	6.2	0.0	39	0.00
	Mizoram	136	0	2.0	1.8	-0.3	21	0.00
	Nagaland	144	0	2.2	2.1	0.0	22	0.00
	Tripura	222	0	3.2	2.2	-0.7	19	0.00

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

	Bhutan	Nepal	Bangladesh
Actual (MU)	-2.8	-2.9	-19.8
Day Peak (MW)	-298.0	-85.7	-877.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	137.5	-121.2	105.5	-125.6	3.9	0.0
Actual(MU)	119.2	-118.1	124.5	-133.6	2.2	-5.8
O/D/U/D(MU)	-18.3	3.2	19.0	-8.0	-1.7	-5.8

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL	% Share
Central Sector	5423	14183	6772	2656	674	29707	43
State Sector	6705	17577	9388	5430	11	39111	57
Total	12128	31759	16160	8086	685	68818	100

G. Sourcewise generation (MU)

	NR	WR	SR	ER	NER	All India	% Share
Coal	683	1275	556	550	10	3074	77
Lignite	27	11	44	0	0	81	2
Hvdro	98	41	110	26	9	283	7
Nuclear	28	21	70	0	0	119	3
Gas, Naptha & Diesel	15	12	9	0	29	66	2
RES (Wind, Solar, Biomass & Others)	128	102	157	5	0	392	10
Total	980	1462	945	581	48	4016	100
Share of RES in total generation (%)	13.10	6.96	16.59	0.87	0.68	9.77	
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	25.97	11.23	35.54	5.32	18.51	19.78	

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.020
Based on State Max Demands	1.068

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-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	2	0	0.0	0.0	0.0
3	765 kV	GAYA-VARANASI	2	0	377	0.0	6.3	-6.3
4	765 kV	SASARAM-FATEHPUR	1	0	424	0.0	8.2	-8.2
5	765 kV	GAYA-BALIA	1	0	561	0.0	8.2	-8.2
6	400 kV	PUSAULI-VARANASI	1	20	60	0.0	0.4	-0.4
7	400 kV	PUSAULI-ALLAHABAD	1	92	62	0.0	0.0	0.0
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	0	714	0.0	8.9	-8.9
9	400 kV	PATNA-BALIA	4	0	1104	0.0	20.4	-20.4
10	400 kV	BIHARSHARIFF-BALIA	2	0	424	0.0	5.5	-5.5
11	400 kV	MOTIHARI-GORAKHPUR	2	0	399	0.0	6.2	-6.2
12	400 kV	BIHARSHARIFF-VARANASI	2	0	201	0.0	2.6	-2.6
13	220 kV	SAHUPURI-KARMANASA	1	9	109	0.0	1.2	-1.2
14	132 kV	SONE NAGAR-RIHAND	1	0	0	0.0	0.0	0.0
15	132 kV	GARWAH-RIHAND	1	25	0	0.0	0.0	0.0
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	67.9	-67.5
Import/Export of ER (With WR)								
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	427	451	2.6	0.0	2.6
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	340	646	0.0	5.2	-5.2
3	765 kV	JHARSUGUDA-DURG	2	133	302	0.0	2.7	-2.7
4	400 kV	JHARSUGUDA-RAIGARH	4	15	343	0.0	4.6	-4.6
5	400 kV	RANCHI-SIPAT	2	108	179	0.0	1.3	-1.3
6	220 kV	BUDHIPADAR-RAIGARH	1	0	136	0.0	2.1	-2.1
7	220 kV	BUDHIPADAR-KORBA	2	59	11	0.6	0.0	0.6
						ER-WR	15.8	-12.6
Import/Export of ER (With SR)								
1	HVDC	JEYPORE-GAZUWAKA B/B	2	0	443	0.0	9.8	-9.8
2	HVDC	TALCHER-KOLAR BIPOLE	2	0	1496	0.0	36.1	-36.1
3	765 kV	ANGUL-SRIKAKULAM	2	0	2591	0.0	50.9	-50.9
4	400 kV	TALCHER-I/C	2	0	405	0.0	2.8	-2.8
5	220 kV	BALMELA-UPPER-SILERRU	1	2	0	0.0	0.0	0.0
						ER-SR	96.9	-96.9
Import/Export of ER (With NER)								
1	400 kV	BINAGURI-BONGAIGAON	2	251	0	2.9	0.0	2.9
2	400 kV	ALIPURDUAR-BONGAIGAON	2	417	0	6.0	0.0	6.0
3	220 kV	ALIPURDUAR-SALAKATI	2	74	0	1.1	0.0	1.1
						ER-NER	9.9	0.0
Import/Export of NER (With NR)								
1	HVDC	BISWANATH CHARIALI-AGRA	2	491	0	11.7	0.0	11.7
						NER-NR	11.7	0.0
Import/Export of WR (With NR)								
1	HVDC	CHAMPA-KURUKSHETRA	2	0	1011	0.0	23.8	-23.8
2	HVDC	VINDHYACHAL B/B	-	451	52	6.6	0.0	6.6
3	HVDC	MUNDRA-MOHINDERGARH	2	0	128	0.0	3.1	-3.1
4	765 kV	GWALIOR-AGRA	2	0	2071	0.0	25.5	-25.5
5	765 kV	GWALIOR-PHAGI	2	0	1867	0.0	27.5	-27.5
6	765 kV	JABALPUR-ORAI	2	0	984	0.0	23.0	-23.0
7	765 kV	GWALIOR-ORAI	1	972	0	15.8	0.0	15.8
8	765 kV	SATNA-ORAI	1	0	1013	0.0	19.2	-19.2
9	765 kV	BANASKANTHA-CHITORGARH	2	2122	0	31.4	0.0	31.4
10	765 kV	VINDHYACHAL-VARANASI	2	0	2410	0.0	32.4	-32.4
11	400 kV	ZERDA-KANKROLI	1	423	0	6.8	0.0	6.8
12	400 kV	ZERDA -BHNMAL	1	651	0	9.7	0.0	9.7
13	400 kV	VINDHYACHAL -RIHAND	1	492	0	11.3	0.0	11.3
14	400 kV	RAPP-SHULPUR	2	430	317	2.3	1.3	1.0
15	220 kV	BHANPURA-RANPUR	1	0	0	0.0	0.0	0.0
16	220 kV	BHANPURA-MORAK	1	0	30	1.3	0.7	0.6
17	220 kV	MEHGAON-AURAIYA	1	132	0	1.2	0.0	1.2
18	220 kV	MALANPUR-AURAIYA	1	94	0	2.4	0.0	2.4
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	88.7	156.5
Import/Export of WR (With SR)								
1	HVDC	BHADRAWATI B/B	-	0	617	0.0	9.0	-9.0
2	HVDC	RAIGARH-PUGALUR	2	0	1001	0.0	16.4	-16.4
3	765 kV	SOLAPUR-RAICHUR	2	439	1476	0.5	19.4	-18.9
4	765 kV	WARDHA-NIZAMABAD	2	0	2391	0.0	40.0	-40.0
5	400 kV	KOLHAPUR-KUDGI	2	1409	0	20.1	0.0	20.1
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	79	1.3	0.0	1.3
						WR-SR	21.9	84.8

INTERNATIONAL EXCHANGES			Import(+ve)/Export(-ve) Energy Exchange (MU)			
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)	106	0	1	0.0
	ER	400KV TALA-BINAGURI 1,2,3 (& 400KV MALBASE - BINAGURI) i.e. BINAGURI RECEIPT (from TALA HEP 6*170MW)	0	0	0	0.0
	ER	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	-21	-5	-12	-0.3
	NER	132KV MOTANGA-RANGIA	-12	12	6	0.2
NEPAL	NR	132KV MAHENDRANAGAR-TANAKPUR(NHPC)	-78	0	-71	-1.7
	ER	NEPAL IMPORT (FROM BIHAR)	316	0	171	4.1
BANGLADESH	ER	400KV DHALKEBAR-MUZAFFARPUR 1&2	-324	0	-223	-5.4
	ER	BHERAMARA B/B HVDC (BANGLADESH)	-750	-696	-737	-17.7
BANGLADESH	NER	132KV COMILLA-SURAJMANI NAGAR 1&2	-127	0	-89	-2.1