



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: 21st 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 20.02.2022.

महोदय/Dear Sir,

आईईजीसी-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 20-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 20th February 2022, is available at the NLDC website.

धन्यवाद,

पाँवर सिस्टम ऑपरेशन कारपोरेशन लिमिटेड
राष्ट्रीय भार प्रेषण केंद्र, नई दिल्ली



Report for previous day

Date of Reporting: 21-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)	47460	53923	40802	19553	2473	164211
Peak Shortage (MW)	250	0	0	0	0	250
Energy Met (MU)	998	1309	1049	402	43	3802
Hydro Gen (MU)	110	34	84	25	8	262
Wind Gen (MU)	13	75	24	-	-	112
Solar Gen (MU)*	88.22	48.98	117.75	4.83	0.35	260
Energy Shortage (MU)	5.46	0.00	0.00	1.11	0.00	6.57
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	51894	63224	52120	19730	2490	185809
Time Of Maximum Demand Met (From NLDC SCADA)	10:41	10:56	09:44	18:46	17:58	10:27

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	0.025	0.00	0.00	1.87	1.87	83.69	14.43

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	6537	0	124.7	41.6	-0.6	175	0.00	
	Haryana	6284	0	118.2	67.8	-0.1	218	0.00	
	Rajasthan	15170	0	273.1	81.5	0.3	391	0.00	
	Delhi	3649	0	59.4	48.0	-0.8	208	0.01	
	UP	16995	0	298.1	80.7	-1.8	437	0.00	
	Uttarakhand	2052	0	36.5	23.2	0.9	196	0.00	
	HP	1619	0	28.7	21.5	-0.4	156	0.80	
	J&K(UT) & Ladakh(UT)	2903	250	56.1	52.7	-1.7	96	4.65	
WR	Chandigarh	187	0	3.0	3.7	-0.7	0	0.00	
	Chhattisgarh	4314	0	94.7	29.4	-1.3	333	0.00	
	Gujarat	16703	0	354.4	180.3	4.2	1114	0.00	
	MP	14154	0	284.4	173.5	-3.0	472	0.00	
	Maharashtra	24849	0	519.5	158.9	-2.0	650	0.00	
	Goa	543	0	11.1	10.8	0.0	42	0.00	
	DD	317	0	7.3	7.0	0.3	75	0.00	
	DNH	837	0	19.5	19.3	0.2	42	0.00	
SR	AMNSIL	873	0	18.4	3.5	-0.2	213	0.00	
	Andhra Pradesh	10540	0	200.2	84.6	1.3	1110	0.00	
	Telangana	11589	0	217.2	93.3	-0.4	431	0.00	
	Karnataka	13323	0	245.0	97.2	-1.0	638	0.00	
	Kerala	3743	0	75.4	53.4	-0.2	353	0.00	
	Tamil Nadu	14277	0	304.5	172.8	-0.9	428	0.00	
	Puducherry	335	0	7.1	7.2	-0.2	38	0.00	
	ER	Bihar	4682	0	82.4	71.3	0.1	244	0.00
DVC		3210	0	68.9	-44.6	-1.2	245	0.00	
Jharkhand		1460	0	28.0	19.5	-1.6	102	1.11	
Odisha		5640	0	109.3	48.9	-1.9	282	0.00	
West Bengal		5871	0	112.4	-12.2	-0.9	398	0.00	
Sikkim		93	0	1.5	1.8	-0.4	17	0.00	
NER		Assam	1371	0	22.8	17.2	-0.7	102	0.00
		Arunachal Pradesh	157	0	2.5	2.6	-0.2	37	0.00
	Manipur	224	0	3.3	3.3	0.0	20	0.00	
	Meghalava	354	0	7.2	6.0	0.1	53	0.00	
	Mizoram	120	0	1.8	2.0	-0.2	14	0.00	
	Nagaland	135	0	2.3	2.1	0.2	18	0.00	
	Tripura	208	0	3.5	1.8	-0.2	27	0.00	

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

	Bhutan	Nepal	Bangladesh
Actual (MU)	-1.9	-11.1	-19.5
Day Peak (MW)	-276.0	-746.3	-845.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	143.2	-149.1	137.3	-134.3	2.9	0.0
Actual(MU)	130.6	-141.8	147.6	-142.1	2.0	-3.7
O/D/U/D(MU)	-12.6	7.3	10.3	-7.8	-0.9	-3.7

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL	% Share
Central Sector	7575	14130	6492	3081	732	32010	45
State Sector	10794	17033	8093	2460	11	38391	55
Total	18369	31162	14585	5541	743	70400	100

G. Sourcewise generation (MU)

	NR	WR	SR	ER	NER	All India	% Share
Coal	578	1261	537	563	13	2953	75
Lignite	25	15	43	0	0	83	2
Hydro	110	34	84	25	8	262	7
Nuclear	33	21	66	0	0	119	3
Gas, Naptha & Diesel	14	15	9	0	25	64	2
RES (Wind, Solar, Biomass & Others)	129	125	178	5	0	437	11
Total	890	1471	917	593	46	3917	100

Share of RES in total generation (%)	14.52	8.50	19.37	0.81	0.76	11.16
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	30.55	12.24	35.70	5.09	17.65	20.87

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.020
Based on State Max Demands	1.051

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: 21-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	-	3	0	0.0	0.0	0.0
3	765 kV	GAYA-VARANASI	2	0	616	0.0	9.1	-9.1
4	765 kV	SASARAM-FATEHPUR	1	0	435	0.0	7.9	-7.9
5	765 kV	GAYA-BALIA	1	0	601	0.0	10.2	-10.2
6	400 kV	PUSAULI-VARANASI	1	12	59	0.0	0.7	-0.7
7	400 kV	PUSAULI-ALLAHABAD	1	34	119	0.0	1.1	-1.1
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	0	728	0.0	8.6	-8.6
9	400 kV	PATNA-BALIA	4	0	1277	0.0	17.7	-17.7
10	400 kV	BIHARSHARIF-BALIA	2	0	519	0.0	7.9	-7.9
11	400 kV	MOTIHARI-GORAKHPUR	2	0	461	0.0	7.0	-7.0
12	400 kV	BIHARSHARIF-VARANASI	2	0	330	0.0	4.7	-4.7
13	220 kV	SAHUPURI-KARMANASA	1	0	103	0.0	1.2	-1.2
14	132 kV	SONENAGAR-RIHAND	1	0	0	0.0	0.0	0.0
15	132 kV	GARWAH-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	0.4	-75.6
Import/Export of ER (With WR)								
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	690	242	6.7	0.0	6.7
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	54	895	0.0	8.5	-8.5
3	765 kV	JHARSUGUDA-DURG	2	3	318	0.0	4.0	-4.0
4	400 kV	JHARSUGUDA-RAIGARH	4	0	438	0.0	5.4	-5.4
5	400 kV	RANCHI-SIPAT	2	27	234	0.0	1.7	-1.7
6	220 kV	BUDHIPADAR-RAIGARH	1	15	89	0.0	1.1	-1.1
7	220 kV	BUDHIPADAR-KORBA	2	110	0	1.7	0.0	1.7
						ER-WR	8.5	-12.3
Import/Export of ER (With SR)								
1	HVDC	JEYPORE-GAZUWAKA B/B	2	0	443	0.0	9.9	-9.9
2	HVDC	TALCHER-KOLAR BIPOLE	2	0	1989	0.0	45.9	-45.9
3	765 kV	ANGUL-SRIKAKULAM	2	0	2705	0.0	52.0	-52.0
4	400 kV	TALCHER-I/C	2	420	365	0.0	2.0	-2.0
5	220 kV	BALIMELA-UPPER-SILERRU	1	1	0	0.0	0.0	0.0
						ER-SR	107.9	-107.9
Import/Export of ER (With NER)								
1	400 kV	BINAGURI-BONGAIGAON	2	329	32	3.3	0.1	3.2
2	400 kV	ALIPURDUAR-BONGAIGAON	2	367	0	5.1	0.0	5.1
3	220 kV	ALIPURDUAR-SALAKATI	2	59	0	0.9	0.0	0.9
						ER-NER	9.3	9.3
Import/Export of NER (With NR)								
1	HVDC	BISWANATH CHARIALI-AGRA	2	469	0	11.9	0.0	11.9
						NER-NR	11.9	11.9
Import/Export of WR (With NR)								
1	HVDC	CHAMPA-KURUKSHETRA	2	0	1009	0.0	23.9	-23.9
2	HVDC	VINDHYACHAL B/B	-	320	0	8.5	0.0	8.5
3	HVDC	MUNDA-MOHINDERGARH	2	0	253	0.0	6.2	-6.2
4	765 kV	GWALIOR-AGRA	2	103	1595	0.0	17.7	-17.7
5	765 kV	GWALIOR-PHAGI	2	0	1851	0.0	28.9	-28.9
6	765 kV	JABALPUR-ORAI	2	0	709	0.0	20.0	-20.0
7	765 kV	GWALIOR-ORAI	1	944	0	16.1	0.0	16.1
8	765 kV	SATNA-ORAI	1	0	866	0.0	16.8	-16.8
9	765 kV	BANASKANTHA-CHITORGARH	2	1944	0	28.5	0.0	28.5
10	765 kV	VINDHYACHAL-VARANASI	2	0	2264	0.0	35.0	-35.0
11	400 kV	ZERDA-KANKROLI	1	385	0	5.5	0.0	5.5
12	400 kV	ZERDA-BHINMAL	1	643	7	6.2	0.0	6.2
13	400 kV	VINDHYACHAL-RIHAND	1	484	0	10.8	0.0	10.8
14	400 kV	RAPP-SHUALPUR	2	529	281	2.6	1.3	1.3
15	220 kV	BHANSURA-RANPUR	1	0	0	0.0	0.0	0.0
16	220 kV	BHANSURA-MORAK	1	0	30	0.0	0.0	0.0
17	220 kV	MEHGAON-AURAIYA	1	124	0	1.1	0.0	1.1
18	220 kV	MALANPUR-AURAIYA	1	81	0	2.0	0.0	2.0
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	81.3	-68.5
Import/Export of WR (With SR)								
1	HVDC	BHADRAWATI B/B	-	0	1016	0.0	13.4	-13.4
2	HVDC	RAIGARH-PUGALUR	2	0	2501	0.0	28.4	-28.4
3	765 kV	SOLAPUR-RAICHUR	2	631	1901	1.1	21.2	-20.1
4	765 kV	WARDHA-NIZAMABAD	2	0	2616	0.0	43.7	-43.7
5	400 kV	KOLHAPUR-KUDGI	2	1226	0	18.6	0.0	18.6
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	70	1.3	0.0	1.3
						WR-SR	21.0	-85.7

INTERNATIONAL EXCHANGES

State	Region	Line Name	Max (MW)	Min (MW)	Avg (MW)	Import(+ve)/Export(-ve) Energy Exchange (MU)
BHUTAN	ER	400kV MANGDECHHU-ALIPURDUAR 1,2&3 i.e. ALIPURDUAR RECEIPT (from MANGDECHHU HEP 4*180MW)	148	0	36	0.9
	ER	400kV TALA-BINAGURI 1,2,4 (& 400kV MALBASE - BINAGURI) i.e. BINAGURI RECEIPT (from TALA HEP (6*150MW)	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	-12	0	-3	-0.1
	NER	132kV MOTANGA-RANGIA	-34	0	-15	-0.4
NEPAL	NR	132kV MAHENDRANAGAR-TANAKPUR(NHPC)	-81	0	-67	-1.6
	ER	NEPAL IMPORT (FROM BIHAR)	-278	0	-107	-2.6
BANGLADESH	ER	400kV DHALKEBAR-MUZAFFARPUR 1&2	-387	-4	-287	-6.9
	ER	BHERAMARA B/B HVDC (BANGLADESH)	-737	-687	-727	-17.4
BANGLADESH	NER	132kV COMILLA-SURAJMANI NAGAR 1&2	-108	0	-88	-2.1