National Load Despatch Centre
राष्ट्रीय भार प्रेषण केंद्र
POWER SYSTEM OPERATION CORPORATION LIMITED
पॉवर 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: 23rd Feb 2021

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., डोंगतिएह, 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 22.02.2021.

महोदय/Dear Sir,

आई०ई०जी०सी०-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 22-फरवरी -2021 की अखिल भारतीय प्रणाली की दैनिक ग्रिड निष्पादन रिपोर्ट रा०भा०प्रे०के० की वेबसाइट पर उप्लब्ध 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 22th February 2021, 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:** **23-Feb-2021**

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)	47832	52905	42683	19178	2514	165112
Peak Shortage (MW)	990	0	0	0	31	1021
Energy Met (MU)	982	1236	987	382	43	3629
Hydro Gen (MU)	108	38	80	32	8	265
Wind Gen (MU)	7	26	40	-	-	73
Solar Gen (MU)*	43.21	38.50	98.13	4.55	0.17	185
Energy Shortage (MU)	11.76	0.00	0.00	0.00	0.55	12.31
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	50792	58252	49035	19346	2622	176066
Time Of Maximum Demand Met (From NLDC SCADA)	09:14	11:02	09:54	18:30	18:01	09:15

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	0.059	0.15	1.46	14.35	15.96	72.54	11.50

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	6318	0	124.7	60.5	-1.0	126	0.00
	Haryana	6513	0	129.0	89.0	1.3	212	0.02
	Rajasthan	13781	0	258.9	89.6	-0.1	397	0.00
	Delhi	3620	0	60.8	57.5	-1.3	133	0.00
	UP	16240	0	284.5	82.8	-0.7	720	0.54
	Uttarakhand	2028	0	37.8	20.0	0.6	133	0.00
	HP	1779	0	30.6	25.4	0.2	132	0.00
	J&K(UT) & Ladakh(UT)	2689	550	53.0	46.9	0.2	347	11.20
	Chandigarh	206	0	3.2	3.3	-0.1	11	0.00
WR	Chhattisgarh	4335	0	94.9	44.2	0.3	322	0.00
	Gujarat	17258	0	359.9	124.4	9.9	1231	0.00
	MP	13084	0	254.5	156.7	-1.0	536	0.00
	Maharashtra	22749	0	471.2	135.9	-1.6	465	0.00
	Goa	463	0	10.0	9.3	0.1	37	0.00
	DD	342	0	7.4	7.0	0.4	100	0.00
	DNH	861	0	19.8	19.7	0.1	79	0.00
	AMNSIL	819	0	18.2	1.3	0.4	254	0.00
SR	Andhra Pradesh	8779	0	176.1	51.1	-0.5	500	0.00
	Telangana	12551	0	242.4	131.4	1.1	852	0.00
	Karnataka	10325	0	197.7	71.7	-1.1	510	0.00
	Kerala	3834	0	76.3	50.7	-0.4	251	0.00
	Tamil Nadu	14291	0	287.4	184.2	-1.0	604	0.00
	Puducherry	352	0	6.8	7.2	-0.4	26	0.00
ER	Bihar	4578	0	84.5	75.8	1.5	367	0.00
	DVC	3032	0	66.4	-53.5	-0.3	301	0.00
	Jharkhand	1435	0	25.4	18.6	-1.7	109	0.00
	Odisha	4109	0	77.5	3.2	-0.1	268	0.00
	West Bengal	6719	0	127.0	12.0	-1.6	272	0.00
	Sikkim	113	0	1.4	1.8	-0.4	41	0.00
NER	Arunachal Pradesh	144	2	2.2	2.2	-0.1	25	0.01
	Assam	1496	21	24.4	19.3	-0.1	102	0.50
	Manipur	219	3	2.5	2.8	-0.3	47	0.01
	Meghalaya	350	0	6.3	4.5	0.0	36	0.00
	Mizoram	111	3	1.6	1.4	-0.1	14	0.02
	Nagaland	134	2	2.0	2.0	-0.1	19	0.01
	Tripura	223	3	3.9	2.0	0.0	30	0.00

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

	Bhutan	Nepal	Bangladesh
Actual (MU)	4.2	-14.3	-21.0
Day Peak (MW)	184.0	-748.0	-973.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	234.8	-242.7	144.4	-138.3	1.7	0.0
Actual(MU)	226.2	-228.4	136.1	-137.2	1.6	-1.7
O/D/U/D(MU)	-8.6	14.2	-8.3	1.1	-0.1	-1.7

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL	% Share
Central Sector	7309	15873	7172	1350	794	32497	43
State Sector	13379	13585	11082	4452	11	42509	57
Total	20688	29457	18254	5802	805	75006	100

G. Sourcewise generation (MU)

	NR	WR	SR	ER	NER	All India	% Share
Coal	525	1302	512	516	8	2863	77
Lignite	24	9	33	0	0	66	2
Hydro	108	38	80	32	8	265	7
Nuclear	23	21	47	0	0	91	2
Gas, Naptha & Diesel	18	47	12	0	30	107	3
RES (Wind, Solar, Biomass & Others)	77	65	177	5	0	323	9
Total	775	1483	860	552	46	3716	100

Share of RES in total generation (%)	9.88	4.37	20.63	0.82	0.37	8.70
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	26.75	8.39	35.33	6.59	16.96	18.29

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.023
Based on State Max Demands	1.056

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: 23-Feb-2021

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	-	0	251	0.0	6.0	-6.0
3	765 kV	GAYA-VARANASI	2	0	894	0.0	12.0	-12.0
4	765 kV	SASARAM-FATEHPUR	1	0	415	0.0	6.8	-6.8
5	765 kV	GAYA-BALIA	1	0	478	0.0	7.1	-7.1
6	400 kV	PUSAULI-VARANASI	1	0	207	0.0	4.3	-4.3
7	400 kV	PUSAULI -ALLAHABAD	1	0	97	0.0	1.6	-1.6
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	0	851	0.0	11.3	-11.3
9	400 kV	PATNA-BALIA	4	0	1080	0.0	16.5	-16.5
10	400 kV	BIHARSHARIFF-BALIA	2	0	470	0.0	7.7	-7.7
11	400 kV	MOTIHARI-GORAKHPUR	2	0	332	0.0	6.1	-6.1
12	400 kV	BIHARSHARIFF-VARANASI	2	0	336	0.0	3.7	-3.7
13	220 kV	PUSAULI-SAHUPURI	1	25	90	0.0	0.6	-0.6
14	132 kV	SONE NAGAR-RIHAND	1	0	0	0.0	0.0	0.0
15	132 kV	GARWAH-RIHAND	1	20	0	0.7	0.0	0.7
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	0.7	83.7	-83.0
Import/Export of ER (With WR)								
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	602	0	8.6	0.0	8.6
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	635	409	1.8	0.0	1.8
3	765 kV	JHARSUGUDA-DURG	2	0	278	0.0	3.7	-3.7
4	400 kV	JHARSUGUDA-RAIGARH	4	0	241	0.0	4.9	-4.9
5	400 kV	RANCHI-SIPAT	2	105	193	0.0	0.8	-0.8
6	220 kV	BUDHIPADAR-RAIGARH	1	0	154	0.0	2.6	-2.6
7	220 kV	BUDHIPADAR-KORBA	2	78	38	0.5	0.0	0.5
					ER-WR	11.0	12.0	-1.0
Import/Export of ER (With SR)								
1	HVDC	JEYPORE-GAZUWAKA B/B	2	0	649	0.0	10.9	-10.9
2	HVDC	TALCHER-KOLAR BIPOLE	2	0	2472	0.0	45.1	-45.1
3	765 kV	ANGUL-SRIKAKULAM	2	0	2399	0.0	46.7	-46.7
4	400 kV	TALCHER-I/C	2	0	1111	0.0	11.4	-11.4
5	220 kV	BALIMELA-UPPER-SILERRU	1	1	0	0.0	0.0	0.0
					ER-SR	0.0	102.6	-102.6
Import/Export of ER (With NER)								
1	400 kV	BINAGURI-BONGAIGAON	2	262	1	3.2	0.0	3.2
2	400 kV	ALIPURDUAR-BONGAIGAON	2	454	0	5.4	0.0	5.4
3	220 kV	ALIPURDUAR-SALAKATI	2	69	7	0.8	0.0	0.8
					ER-NER	9.4	0.0	9.4
Import/Export of NER (With NR)								
1	HVDC	BISWANATH CHARIALI-AGRA	2	468	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	1512	0.0	37.0	-37.0
2	HVDC	VINDHYACHAL B/B	-	243	0	6.0	0.0	6.0
3	HVDC	MUNDRA-MOHINDERGARH	2	0	984	0.0	24.2	-24.2
4	765 kV	GWALIOR-AGRA	2	0	2480	0.0	38.4	-38.4
5	765 kV	PHAGI-GWALIOR	2	0	1371	0.0	22.0	-22.0
6	765 kV	JABALPUR-ORAI	2	562	991	0.0	30.4	-30.4
7	765 kV	GWALIOR-ORAI	1	618	0	11.8	0.0	11.8
8	765 kV	SATNA-ORAI	1	0	1237	0.0	24.5	-24.5
9	765 kV	CHITORGARH-BANASKANTHA	2	497	648	1.8	6.8	-4.9
10	400 kV	ZERDA-KANKROLI	1	151	130	0.0	0.4	-0.4
11	400 kV	ZERDA -BHINMAL	1	119	356	0.0	3.9	-3.9
12	400 kV	VINDHYACHAL -RIHAND	1	487	0	11.2	0.0	11.2
13	400 kV	RAPP-SHUJALPUR	2	0	414	0.0	5.0	-5.0
14	220 kV	BHANPURA-RANPUR	1	0	187	0.0	0.0	0.0
15	220 kV	BHANPURA-MORAK	1	0	30	0.0	0.0	0.0
16	220 kV	MEHGAON-AURAIYA	1	124	0	2.5	1.8	0.7
17	220 kV	MALANPUR-AURAIYA	1	76	6	2.1	0.0	2.1
18	132 kV	GWALIOR-SAWAI MADHOPUR	1	0	0	0.0	0.0	0.0
19	132 kV	RAJGHAT-LALITPUR	2	0	0	0.0	0.9	-0.9
					WR-NR	35.5	195.1	-159.7
Import/Export of WR (With SR)								
1	HVDC	BHADRAWATI B/B	-	0	522	0.0	5.6	-5.6
2	HVDC	RAIGARH-PUGALUR	2	0	1511	0.0	19.6	-19.6
3	765 kV	SOLAPUR-RAICHUR	2	961	1869	0.0	15.1	-15.1
4	765 kV	WARDHA-NIZAMABAD	2	0	2922	0.0	45.7	-45.7
5	400 kV	KOLHAPUR-KUDGI	2	1220	0	15.4	0.0	15.4
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	116	2.2	0.0	2.2
					WR-SR	17.6	85.9	-68.4

INTERNATIONAL EXCHANGES

State	Region	Line Name	Max (MW)	Min (MW)	Avg (MW)	Energy Exchange (MU)
BHUTAN	ER	400kV MANGDECHHU-ALIPURDUAR 1&2 i.e. ALIPURDUAR RECEIPT (from MANGDECHU HEP 4*180MW)	125	89	101	2.4
	ER	400kV TALA-BINAGURI 1,2,4 (& 400kV MALBASE - BINAGURI) i.e. BINAGURI RECEIPT (from TALA HEP (6*170MW)	81	0	71	1.7
	ER	220kV CHUKHA-BIRPARA 1&2 (& 220kV MALBASE - BIRPARA) i.e. BIRPARA RECEIPT (from CHUKHA HEP 4*84MW)	17	0	4	0.1
	NER	132KV-GEYLEGPHU - SALAKATI	-31	-6	17	0.4
	NER	132kV Motanga-Rangia	-8	0	2	0.1
NEPAL	NR	132KV-TANAKPUR(NH) - MAHENDRANAGAR(PG)	-78	0	-74	-1.8
	ER	400KV-MUZAFFARPUR - DHALKEBAR DC	-341	-194	-300	-7.2
	ER	132KV-BIHAR - NEPAL	-329	-102	-220	-5.3
BANGLADESH	ER	BHERAMARA HVDC(BANGLADESH)	-854	-636	-779	-18.7
	NER	132KV-SURAJMANI NAGAR - COMILLA(BANGLADESH)-1	60	0	-47	-1.1
	NER	132KV-SURAJMANI NAGAR - COMILLA(BANGLADESH)-2	59	0	-47	-1.1