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: 13th 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 12.02.2021.

महोदय/Dear Sir,

आई०ई०जी०सी०-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 12-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 12th 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: 13-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)	50128	53120	43514	19206	2574	168542
Peak Shortage (MW)	550	41	0	0	28	619
Energy Met (MU)	1028	1270	1059	385	44	3786
Hydro Gen (MU)	99	45	77	34	10	266
Wind Gen (MU)	11	19	47	-	-	77
Solar Gen (MU)*	42.25	36.56	116.47	4.53	0.18	200
Energy Shortage (MU)	11.32	0.90	0.00	0.00	0.19	12.41
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	53794	60075	53485	19241	2579	185242
Time Of Maximum Demand Met (From NLDC SCADA)	09:43	10:48	09:52	18:53	18:04	09:30

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	0.032	0.00	0.05	3.30	3.34	78.06	18.60

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	6956	0	134.1	62.6	-1.2	167	0.00
	Haryana	6613	0	135.7	87.0	0.4	169	0.00
	Rajasthan	14004	0	268.8	89.7	-0.6	306	0.00
	Delhi	4043	0	66.4	50.6	-1.2	52	0.01
	UP	16902	140	291.7	87.0	-0.2	221	0.11
	Uttarakhand	2212	0	40.3	24.9	1.1	212	0.00
	HP	1864	0	32.7	26.8	0.6	157	0.00
	J&K(UT) & Ladakh(UT)	2706	550	54.4	48.8	0.3	296	11.20
	Chandigarh	228	0	3.5	3.6	-0.1	20	0.00
WR	Chhattisgarh	4497	0	98.3	49.1	0.4	291	0.80
	Gujarat	16836	0	359.1	135.9	2.2	600	0.00
	MP	14436	0	277.1	167.3	-0.8	519	0.00
	Maharashtra	23202	0	482.6	149.8	-0.9	631	0.00
	Goa	451	0	9.5	9.1	-0.2	19	0.10
	DD	325	0	6.9	6.8	0.1	29	0.00
	DNH	831	0	19.6	19.6	0.0	40	0.00
	AMNSIL	799	0	16.4	2.7	0.6	131	0.00
SR	Andhra Pradesh	10090	0	191.1	63.2	0.1	484	0.00
	Telangana	12856	0	242.3	122.8	0.2	637	0.00
	Karnataka	12783	0	244.6	82.2	-1.0	472	0.00
	Kerala	3663	0	72.9	51.3	0.2	283	0.00
	Tamil Nadu	14615	0	301.2	186.8	1.7	692	0.00
	Puducherry	366	0	7.4	7.6	-0.2	30	0.00
ER	Bihar	4595	0	84.1	72.1	1.7	642	0.00
	DVC	2983	0	67.2	-50.1	-0.4	259	0.00
	Jharkhand	1355	0	25.1	18.0	-1.2	127	0.00
	Odisha	4174	0	78.1	8.0	-2.0	468	0.00
	West Bengal	6796	0	129.3	20.4	-0.4	601	0.00
	Sikkim	103	0	1.5	1.7	-0.2	27	0.00
NER	Arunachal Pradesh	133	2	2.3	2.5	-0.3	30	0.01
	Assam	1462	12	25.3	19.9	0.7	71	0.15
	Manipur	225	2	2.7	3.1	-0.4	22	0.01
	Meghalaya	393	0	6.6	4.5	0.2	25	0.00
	Mizoram	115	0	1.8	1.6	-0.1	19	0.01
	Nagaland	130	1	2.2	2.1	0.0	18	0.01
	Tripura	257	4	2.9	1.7	-1.2	74	0.00

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

	Bhutan	Nepal	Bangladesh
Actual (MU)	4.3	-14.3	-16.0
Day Peak (MW)	228.0	-700.5	-927.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	233.6	-234.1	132.3	-132.7	0.9	0.0
Actual(MU)	229.4	-246.4	130.3	-126.7	1.6	-11.7
O/D/U/D(MU)	-4.2	-12.3	-1.9	6.0	0.7	-11.7

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL	% Share
Central Sector	5852	13563	6522	2165	749	28850	42
State Sector	11568	14848	8372	4272	11	39071	58
Total	17420	28410	14894	6437	760	67921	100

G. Sourcewise generation (MU)

	NR	WR	SR	ER	NER	All India	% Share
Coal	568	1357	558	508	6	2997	78
Lignite	24	7	41	0	0	72	2
Hydro	99	45	77	34	10	266	7
Nuclear	15	16	47	0	0	78	2
Gas, Naptha & Diesel	34	37	11	0	30	111	3
RES (Wind, Solar, Biomass & Others)	80	57	200	5	0	341	9
Total	819	1519	933	547	47	3866	100

Share of RES in total generation (%)	9.78	3.74	21.40	0.83	0.38	8.83
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	23.76	7.78	34.63	7.11	22.73	17.74

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.021
Based on State Max Demands	1.047

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: 13-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	249	0.0	6.0	-6.0
3	765 kV	GAYA-VARANASI	2	0	756	0.0	10.1	-10.1
4	765 kV	SASARAM-FATEHPUR	1	0	287	0.0	4.4	-4.4
5	765 kV	GAYA-BALIA	1	0	518	0.0	7.7	-7.7
6	400 kV	PUSAULI-VARANASI	1	0	240	0.0	5.0	-5.0
7	400 kV	PUSAULI -ALLAHABAD	1	0	74	0.0	1.0	-1.0
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	0	798	0.0	10.2	-10.2
9	400 kV	PATNA-BALIA	4	0	669	0.0	11.0	-11.0
10	400 kV	BIHARSHARIFF-BALIA	2	0	450	0.0	6.6	-6.6
11	400 kV	MOTIHARI-GORAKHPUR	2	0	233	0.0	4.0	-4.0
12	400 kV	BIHARSHARIFF-VARANASI	2	33	224	0.0	1.6	-1.6
13	220 kV	PUSAULI-SAHUPURI	1	52	105	0.0	0.4	-0.4
14	132 kV	SONE NAGAR-RIHAND	1	0	0	0.0	0.0	0.0
15	132 kV	GARWAH-RIHAND	1	20	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	67.9	-67.3
Import/Export of ER (With WR)								
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	517	500	3.1	0.0	3.1
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	855	377	4.6	0.0	4.6
3	765 kV	JHARSUGUDA-DURG	2	0	359	0.0	5.6	-5.6
4	400 kV	JHARSUGUDA-RAIGARH	4	0	489	0.0	6.3	-6.3
5	400 kV	RANCHI-SIPAT	2	204	235	0.0	0.7	-0.7
6	220 kV	BUDHIPADAR-RAIGARH	1	0	162	0.0	2.6	-2.6
7	220 kV	BUDHIPADAR-KORBA	2	104	43	0.9	0.0	0.9
					ER-WR	8.5	15.2	-6.7
Import/Export of ER (With SR)								
1	HVDC	JEYPORE-GAZUWAKA B/B	2	0	435	0.0	10.0	-10.0
2	HVDC	TALCHER-KOLAR BIPOLE	2	0	1979	0.0	39.2	-39.2
3	765 kV	ANGUL-SRIKAKULAM	2	0	2576	0.0	51.8	-51.8
4	400 kV	TALCHER-I/C	2	240	623	0.0	5.5	-5.5
5	220 kV	BALIMELA-UPPER-SILERRU	1	1	0	0.0	0.0	0.0
					ER-SR	0.0	101.0	-101.0
Import/Export of ER (With NER)								
1	400 kV	BINAGURI-BONGAIGAON	2	249	103	2.5	0.0	2.5
2	400 kV	ALIPURDUAR-BONGAIGAON	2	411	140	4.9	0.0	4.9
3	220 kV	ALIPURDUAR-SALAKATI	2	68	30	0.7	0.0	0.7
					ER-NER	8.1	0.0	8.1
Import/Export of NER (With NR)								
1	HVDC	BISWANATH CHARIALI-AGRA	2	487	0	10.3	0.0	10.3
					NER-NR	10.3	0.0	10.3
Import/Export of WR (With NR)								
1	HVDC	CHAMPA-KURUKSHETRA	2	0	1503	0.0	49.2	-49.2
2	HVDC	VINDHYACHAL B/B	-	239	6	2.7	0.0	2.7
3	HVDC	MUNDRA-MOHINDERGARH	2	0	1922	0.0	44.4	-44.4
4	765 kV	GWALIOR-AGRA	2	0	2510	0.0	38.7	-38.7
5	765 kV	PHAGI-GWALIOR	2	0	1326	0.0	22.4	-22.4
6	765 kV	JABALPUR-ORAI	2	872	1004	0.0	30.6	-30.6
7	765 kV	GWALIOR-ORAI	1	643	0	11.3	0.0	11.3
8	765 kV	SATNA-ORAI	1	0	1361	0.0	26.6	-26.6
9	765 kV	CHITORGARH-BANASKANTHA	2	734	402	3.9	0.0	3.9
10	400 kV	ZERDA-KANKROLI	1	188	43	2.1	0.0	2.1
11	400 kV	ZERDA -BHINMAL	1	237	212	0.1	0.0	0.1
12	400 kV	VINDHYACHAL -RIHAND	1	486	0	11.2	0.0	11.2
13	400 kV	RAPP-SHUJALPUR	2	77	507	0.1	4.0	-3.9
14	220 kV	BHANPURA-RANPUR	1	1	156	0.0	2.0	-2.0
15	220 kV	BHANPURA-MORAK	1	0	30	0.0	0.0	0.0
16	220 kV	MEHGAON-AURAIYA	1	127	0	2.0	2.0	0.1
17	220 kV	MALANPUR-AURAIYA	1	92	2	1.6	0.0	1.6
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	1.0	-1.0
					WR-NR	35.1	220.9	-185.8
Import/Export of WR (With SR)								
1	HVDC	BHADRAWATI B/B	-	0	1016	0.0	12.7	-12.7
2	HVDC	RAIGARH-PUGALUR	2	0	1005	0.0	10.6	-10.6
3	765 kV	SOLAPUR-RAICHUR	2	964	1650	0.0	18.8	-18.8
4	765 kV	WARDHA-NIZAMABAD	2	0	2602	0.0	43.4	-43.4
5	400 kV	KOLHAPUR-KUDGI	2	1251	0	16.3	0.0	16.3
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	56	2.2	0.0	2.2
					WR-SR	18.5	85.5	-67.0

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)	219	0	105	2.5
	ER	400kV TALA-BINAGURI 1,2,4 (& 400kV MALBASE - BINAGURI) i.e. BINAGURI RECEIPT (from TALA HEP (6*170MW)	31	30	31	2.0
	ER	220kV CHUKHA-BIRPARA 1&2 (& 220kV MALBASE - BIRPARA) i.e. BIRPARA RECEIPT (from CHUKHA HEP 4*84MW)	15	0	-11	-0.3
	NER	132KV-GEYLEGPHU - SALAKATI	-25	-9	17	0.4
	NER	132kV Motanga-Rangia	-13	3	5	0.1
NEPAL	NR	132KV-TANAKPUR(NH) - MAHENDRANAGAR(PG)	-80	0	-71	-1.7
	ER	400KV-MUZAFFARPUR - DHALKEBAR DC	-298	-232	-282	-6.8
	ER	132KV-BIHAR - NEPAL	-322	-99	-244	-5.9
BANGLADESH	ER	BHERAMARA HVDC(BANGLADESH)	-831	-495	-591	-14.2
	NER	132KV-SURAJMANI NAGAR - COMILLA(BANGLADESH)-1	48	0	-37	-0.9
	NER	132KV-SURAJMANI NAGAR - COMILLA(BANGLADESH)-2	48	0	-37	-0.9