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: 10th 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 09.02.2021.

महोदय/Dear Sir,

आई०ई०जी०सी०-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 09-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 9th 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:** **10-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)	51309	53499	43368	20493	2600	171269
Peak Shortage (MW)	550	0	0	152	21	723
Energy Met (MU)	1026	1273	1041	411	44	3795
Hydro Gen (MU)	94	54	93	33	9	284
Wind Gen (MU)	7	20	55	-	-	81
Solar Gen (MU)*	42.42	36.70	111.13	4.54	0.19	195
Energy Shortage (MU)	11.24	0.00	0.00	0.46	0.14	11.84
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	53477	61335	51733	20736	2621	186594
Time Of Maximum Demand Met (From NLDC SCADA)	09:42	09:27	09:29	18:23	18:00	09:32

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	0.045	0.00	1.34	8.90	10.24	75.30	14.46

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	6782	0	132.2	56.9	-1.2	156	0.00
	Haryana	6518	0	135.2	79.7	-0.3	105	0.00
	Rajasthan	14195	0	269.0	93.4	-0.9	334	0.00
	Delhi	4089	0	65.7	52.1	-1.5	218	0.01
	UP	16891	0	291.9	80.6	-2.8	82	0.03
	Uttarakhand	2227	0	40.7	25.0	0.3	163	0.00
	HP	1781	0	31.3	25.5	0.8	166	0.00
	J&K(UT) & Ladakh(UT)	2793	550	56.0	48.4	2.5	442	11.20
	Chandigarh	233	0	3.6	3.7	-0.1	52	0.00
WR	Chhattisgarh	4481	0	97.0	47.3	1.1	296	0.00
	Gujarat	16877	0	355.5	130.7	2.1	708	0.00
	MP	14624	0	279.9	181.8	0.7	686	0.00
	Maharashtra	23969	0	485.5	146.2	-0.1	407	0.00
	Goa	470	0	9.8	9.6	-0.4	23	0.00
	DD	343	0	7.7	7.4	0.3	31	0.00
	DNH	846	0	19.6	19.5	0.1	50	0.00
	AMNSIL	828	0	18.3	3.8	0.5	287	0.00
SR	Andhra Pradesh	10039	0	187.8	63.6	0.1	446	0.00
	Telangana	12626	0	238.0	115.4	1.5	690	0.00
	Karnataka	12514	0	239.2	72.4	0.4	776	0.00
	Kerala	3639	0	73.5	50.6	-0.1	208	0.00
	Tamil Nadu	14100	0	294.9	168.3	0.9	966	0.00
	Puducherry	385	0	7.7	7.8	-0.1	34	0.00
ER	Bihar	4946	0	86.5	77.9	1.0	384	0.00
	DVC	3247	0	67.5	-52.2	-0.4	268	0.00
	Jharkhand	1389	152	26.1	18.8	-1.3	124	0.46
	Odisha	4965	0	100.4	25.8	-1.2	584	0.00
	West Bengal	6704	0	129.0	14.7	-0.8	227	0.00
	Sikkim	129	0	1.8	1.9	-0.1	8	0.00
NER	Arunachal Pradesh	133	2	2.1	2.4	-0.4	31	0.01
	Assam	1487	19	24.5	19.1	0.6	123	0.10
	Manipur	224	2	2.7	3.2	-0.5	18	0.01
	Meghalaya	365	0	6.7	4.4	0.3	54	0.00
	Mizoram	117	1	1.8	1.6	-0.1	24	0.01
	Nagaland	139	2	2.2	2.1	0.0	16	0.01
	Tripura	226	2	3.6	1.9	-0.3	19	0.00

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

	Bhutan	Nepal	Bangladesh
Actual (MU)	2.5	-14.1	-19.0
Day Peak (MW)	215.0	-703.3	-897.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	212.4	-225.5	124.0	-111.6	0.8	0.0
Actual(MU)	205.7	-214.5	123.5	-116.9	1.5	-0.8
O/D/U/D(MU)	-6.7	11.0	-0.5	-5.3	0.7	-0.8

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL	% Share
Central Sector	5278	13995	7722	2395	770	30159	42
State Sector	9596	17126	9977	5625	11	42334	58
Total	14874	31120	17699	8020	781	72493	100

G. Sourcewise generation (MU)

	NR	WR	SR	ER	NER	All India	% Share
Coal	602	1329	525	522	7	2985	77
Lignite	24	9	42	0	0	74	2
Hydro	94	54	93	33	9	284	7
Nuclear	18	16	47	0	0	81	2
Gas, Naptha & Diesel	27	30	13	0	30	100	3
RES (Wind, Solar, Biomass & Others)	75	58	207	5	0	344	9
Total	840	1496	926	559	47	3868	100

Share of RES in total generation (%)	8.93	3.87	22.30	0.81	0.41	8.90
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	22.26	8.58	37.43	6.69	20.41	18.33

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.018
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: 10-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	6.3	-6.3
3	765 kV	GAYA-VARANASI	2	0	774	0.0	10.4	-10.4
4	765 kV	SASARAM-FATEHPUR	1	0	309	0.0	4.3	-4.3
5	765 kV	GAYA-BALIA	1	0	461	0.0	7.2	-7.2
6	400 kV	PUSAULI-VARANASI	1	0	245	0.0	4.9	-4.9
7	400 kV	PUSAULI -ALLAHABAD	1	0	89	0.0	1.2	-1.2
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	0	706	0.0	8.0	-8.0
9	400 kV	PATNA-BALIA	4	0	947	0.0	15.9	-15.9
10	400 kV	BIHARSHARIFF-BALIA	2	0	344	0.0	5.2	-5.2
11	400 kV	MOTIHARI-GORAKHPUR	2	0	313	0.0	5.3	-5.3
12	400 kV	BIHARSHARIFF-VARANASI	2	85	212	0.0	1.3	-1.3
13	220 kV	PUSAULI-SAHUPURI	1	25	94	0.0	1.0	-1.0
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	70.7	-70.0
Import/Export of ER (With WR)								
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	881	114	9.4	0.0	9.4
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	926	533	3.0	0.0	3.0
3	765 kV	JHARSUGUDA-DURG	2	94	253	0.0	3.0	-3.0
4	400 kV	JHARSUGUDA-RAIGARH	4	120	395	0.0	3.6	-3.6
5	400 kV	RANCHI-SIPAT	2	196	189	0.0	0.0	0.0
6	220 kV	BUDHIPADAR-RAIGARH	1	0	161	0.0	2.6	-2.6
7	220 kV	BUDHIPADAR-KORBA	2	81	67	0.2	0.0	0.2
					ER-WR	12.6	9.2	3.4
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	1981	0.0	38.1	-38.1
3	765 kV	ANGUL-SRIKAKULAM	2	0	2756	0.0	51.6	-51.6
4	400 kV	TALCHER-I/C	2	98	629	0.0	4.4	-4.4
5	220 kV	BALIMELA-UPPER-SILERRU	1	1	0	0.0	0.0	0.0
					ER-SR	0.0	99.7	-99.7
Import/Export of ER (With NER)								
1	400 kV	BINAGURI-BONGAIGAON	2	233	90	2.9	0.0	2.9
2	400 kV	ALIPURDUAR-BONGAIGAON	2	391	87	4.9	0.0	4.9
3	220 kV	ALIPURDUAR-SALAKATI	2	68	27	0.8	0.0	0.8
					ER-NER	8.6	0.0	8.6
Import/Export of NER (With NR)								
1	HVDC	BISWANATH CHARIALI-AGRA	2	488	0	10.8	0.0	10.8
					NER-NR	10.8	0.0	10.8
Import/Export of WR (With NR)								
1	HVDC	CHAMPA-KURUKSHETRA	2	0	754	0.0	30.7	-30.7
2	HVDC	VINDHYACHAL B/B	-	240	0	5.7	0.0	5.7
3	HVDC	MUNDRA-MOHINDERGARH	2	0	1918	0.0	35.0	-35.0
4	765 kV	GWALIOR-AGRA	2	0	2291	0.0	33.4	-33.4
5	765 kV	PHAGI-GWALIOR	2	0	1297	0.0	21.8	-21.8
6	765 kV	JABALPUR-ORAI	2	639	983	0.0	29.3	-29.3
7	765 kV	GWALIOR-ORAI	1	561	0	10.3	0.0	10.3
8	765 kV	SATNA-ORAI	1	0	1302	0.0	24.8	-24.8
9	765 kV	CHITORGARH-BANASKANTHA	2	499	567	0.0	0.1	-0.1
10	400 kV	ZERDA-KANKROLI	1	235	91	1.6	0.0	1.6
11	400 kV	ZERDA -BHINMAL	1	257	298	0.9	1.8	-0.9
12	400 kV	VINDHYACHAL -RIHAND	1	494	0	11.0	0.0	11.0
13	400 kV	RAPP-SHUJALPUR	2	150	418	0.3	3.1	-2.9
14	220 kV	BHANPURA-RANPUR	1	8	132	0.0	1.3	-1.3
15	220 kV	BHANPURA-MORAK	1	0	30	0.0	0.7	-0.7
16	220 kV	MEHGAON-AURAIYA	1	133	0	2.0	0.0	2.0
17	220 kV	MALANPUR-AURAIYA	1	149	1	1.0	0.0	1.0
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	32.8	183.2	-150.3
Import/Export of WR (With SR)								
1	HVDC	BHADRAWATI B/B	-	500	1012	5.0	12.7	-7.7
2	HVDC	RAIGARH-PUGALUR	2	0	1000	0.0	10.7	-10.7
3	765 kV	SOLAPUR-RAICHUR	2	794	1606	0.0	16.0	-16.0
4	765 kV	WARDHA-NIZAMABAD	2	0	2752	0.0	46.5	-46.5
5	400 kV	KOLHAPUR-KUDGI	2	1230	0	18.7	0.0	18.7
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	55	1.0	0.0	1.0
					WR-SR	24.6	85.9	-61.2

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)	129	0	91	2.2
	ER	400kV TALA-BINAGURI 1,2,4 (& 400kV MALBASE - BINAGURI) i.e. BINAGURI RECEIPT (from TALA HEP (6*170MW)	58	51	52	1.2
	ER	220kV CHUKHA-BIRPARA 1&2 (& 220kV MALBASE - BIRPARA) i.e. BIRPARA RECEIPT (from CHUKHA HEP 4*84MW)	0	0	0	-0.9
	NER	132KV-GEYLEGPHU - SALAKATI	29	13	20	0.5
	NER	132kV Motanga-Rangia	13	5	10	0.2
NEPAL	NR	132KV-TANAKPUR(NH) - MAHENDRANAGAR(PG)	-82	0	-74	-1.8
	ER	400KV-MUZAFFARPUR - DHALKEBAR DC	-292	-210	-278	-6.7
	ER	132KV-BIHAR - NEPAL	-329	-19	-238	-5.7
BANGLADESH	ER	BHERAMARA HVDC(BANGLADESH)	-787	-539	-701	-16.8
	NER	132KV-SURAJMANI NAGAR - COMILLA(BANGLADESH)-1	55	0	-29	-0.7
	NER	132KV-SURAJMANI NAGAR - COMILLA(BANGLADESH)-2	55	0	-60	-1.4