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: 3rd 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 02.02.2021.

महोदय/Dear Sir,

आई०ई०जी०सी०-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 02-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 2nd 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:** **03-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)	52387	53928	43418	19443	2615	171791
Peak Shortage (MW)	600	0	0	229	18	847
Energy Met (MU)	1063	1270	1038	396	45	3812
Hydro Gen (MU)	92	47	78	35	9	262
Wind Gen (MU)	5	28	69	-	-	102
Solar Gen (MU)*	41.10	35.73	101.85	4.95	0.23	184
Energy Shortage (MU)	12.72	0.00	0.00	0.69	0.14	13.55
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	55362	61602	51979	19685	2661	188154
Time Of Maximum Demand Met (From NLDC SCADA)	10:13	11:25	09:31	18:32	18:02	09:31

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	0.042	0.00	1.25	7.93	9.18	78.02	12.80

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	7198	0	142.2	61.3	-0.9	135	0.00
	Haryana	7102	0	141.3	81.4	1.1	168	0.00
	Rajasthan	14012	0	268.1	91.8	2.0	404	0.00
	Delhi	4297	0	69.3	58.0	-1.2	182	0.01
	UP	18164	0	311.5	89.3	-1.5	378	0.00
	Uttarakhand	2269	0	41.5	27.7	1.3	248	0.31
	HP	1813	0	31.7	26.4	0.4	294	0.00
	J&K(UT) & Ladakh(UT)	2732	600	54.1	48.7	0.3	262	12.40
	Chandigarh	243	0	3.8	3.8	0.0	25	0.00
WR	Chhattisgarh	4287	0	92.3	37.9	0.3	281	0.00
	Gujarat	16863	0	353.4	120.6	4.6	821	0.00
	MP	14965	0	287.8	168.3	-0.5	652	0.00
	Maharashtra	23838	0	481.8	136.9	-2.1	760	0.00
	Goa	484	0	9.9	10.1	-0.4	32	0.00
	DD	342	0	7.6	7.3	0.3	31	0.00
	DNH	846	0	19.5	19.4	0.1	42	0.00
	AMNSIL	830	0	18.0	4.3	0.3	301	0.00
SR	Andhra Pradesh	9530	0	183.8	85.6	-1.1	465	0.00
	Telangana	12654	0	240.3	111.8	-0.8	608	0.00
	Karnataka	12511	0	235.0	78.3	-1.4	518	0.00
	Kerala	3717	0	74.5	48.3	0.1	262	0.00
	Tamil Nadu	14225	0	297.1	164.8	0.1	587	0.00
	Puducherry	379	0	7.7	7.8	-0.1	38	0.00
ER	Bihar	5052	0	95.0	85.8	2.3	605	0.00
	DVC	3298	0	69.1	-50.9	-0.7	312	0.00
	Jharkhand	1468	229	25.9	17.9	-0.6	227	0.69
	Odisha	3910	0	73.9	1.4	0.8	410	0.00
	West Bengal	6646	0	130.1	12.0	-0.3	421	0.00
	Sikkim	129	0	1.9	1.9	0.1	41	0.00
NER	Arunachal Pradesh	148	1	2.4	2.3	0.0	66	0.01
	Assam	1467	12	24.7	19.1	0.7	129	0.10
	Manipur	240	1	2.8	3.3	-0.4	35	0.01
	Meghalaya	378	0	6.6	4.1	0.3	67	0.00
	Mizoram	127	1	1.9	1.6	0.0	34	0.01
	Nagaland	149	0	2.3	2.1	0.1	22	0.01
	Tripura	218	0	3.9	2.4	-0.1	38	0.00

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

	Bhutan	Nepal	Bangladesh
Actual (MU)	3.8	-14.6	-12.6
Day Peak (MW)	302.0	-762.7	-549.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	246.0	-243.7	115.4	-118.5	0.8	0.0
Actual(MU)	244.6	-247.8	104.3	-113.1	2.8	-9.2
O/D/U/D(MU)	-1.4	-4.1	-11.1	5.4	2.0	-9.2

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL	% Share
Central Sector	6124	14108	6032	3315	569	30147	45
State Sector	8680	13943	9367	4355	11	36355	55
Total	14804	28050	15399	7670	580	66502	100

G. Sourcewise generation (MU)

	NR	WR	SR	ER	NER	All India	% Share
Coal	611	1353	564	496	7	3031	78
Lignite	24	7	39	0	0	71	2
Hydro	92	47	78	35	9	262	7
Nuclear	18	26	43	0	0	87	2
Gas, Naptha & Diesel	22	31	12	0	30	96	2
RES (Wind, Solar, Biomass & Others)	74	65	211	5	0	355	9
Total	841	1529	948	536	47	3901	100

Share of RES in total generation (%)	8.74	4.23	22.28	0.92	0.49	9.09
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	21.87	9.00	35.06	7.50	20.47	18.04

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.017
Based on State Max Demands	1.045

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-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	5.9	-5.9
3	765 kV	GAYA-VARANASI	2	0	743	0.0	10.7	-10.7
4	765 kV	SASARAM-FATEHPUR	1	36	239	0.0	1.6	-1.6
5	765 kV	GAYA-BALIA	1	0	615	0.0	8.9	-8.9
6	400 kV	PUSAULI-VARANASI	1	0	231	0.0	4.7	-4.7
7	400 kV	PUSAULI -ALLAHABAD	1	0	90	0.0	1.1	-1.1
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	0	698	0.0	9.9	-9.9
9	400 kV	PATNA-BALIA	4	0	1135	0.0	18.3	-18.3
10	400 kV	BIHARSHARIFF-BALIA	2	0	468	0.0	5.9	-5.9
11	400 kV	MOTIHARI-GORAKHPUR	2	0	337	0.0	6.1	-6.1
12	400 kV	BIHARSHARIFF-VARANASI	2	90	96	0.0	0.4	-0.4
13	220 kV	PUSAULI-SAHUPURI	1	0	123	0.0	1.7	-1.7
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	75.2	-74.5
Import/Export of ER (With WR)								
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	793	292	6.6	0.0	6.6
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	757	445	4.0	0.0	4.0
3	765 kV	JHARSUGUDA-DURG	2	71	245	0.0	2.7	-2.7
4	400 kV	JHARSUGUDA-RAIGARH	4	150	354	0.0	2.9	-2.9
5	400 kV	RANCHI-SIPAT	2	256	179	1.0	0.0	1.0
6	220 kV	BUDHIPADAR-RAIGARH	1	0	116	0.0	0.8	-0.8
7	220 kV	BUDHIPADAR-KORBA	2	143	0	2.1	0.0	2.1
					ER-WR	13.7	6.4	7.2
Import/Export of ER (With SR)								
1	HVDC	JEYPORE-GAZUWAKA B/B	2	0	533	0.0	12.3	-12.3
2	HVDC	TALCHER-KOLAR BIPOLE	2	0	1986	0.0	32.5	-32.5
3	765 kV	ANGUL-SRIKAKULAM	2	0	2900	0.0	47.5	-47.5
4	400 kV	TALCHER-I/C	2	601	655	0.4	0.0	0.4
5	220 kV	BALIMELA-UPPER-SILERRU	1	1	0	0.0	0.0	0.0
					ER-SR	0.0	92.3	-92.3
Import/Export of ER (With NER)								
1	400 kV	BINAGURI-BONGAIGAON	2	220	93	2.1	0.0	2.1
2	400 kV	ALIPURDUAR-BONGAIGAON	2	372	100	4.0	0.0	4.0
3	220 kV	ALIPURDUAR-SALAKATI	2	62	28	0.6	0.0	0.6
					ER-NER	6.7	0.0	6.7
Import/Export of NER (With NR)								
1	HVDC	BISWANATH CHARIALI-AGRA	2	486	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	630	0.0	38.7	-38.7
2	HVDC	VINDHYACHAL B/B	-	240	251	2.7	2.5	0.1
3	HVDC	MUNDRA-MOHINDERGARH	2	0	1922	0.0	40.2	-40.2
4	765 kV	GWALIOR-AGRA	2	0	2736	0.0	42.9	-42.9
5	765 kV	PHAGI-GWALIOR	2	0	1356	0.0	26.1	-26.1
6	765 kV	JABALPUR-ORAI	2	0	1136	0.0	36.0	-36.0
7	765 kV	GWALIOR-ORAI	1	684	0	12.1	0.0	12.1
8	765 kV	SATNA-ORAI	1	0	1399	0.0	25.8	-25.8
9	765 kV	CHITORGARH-BANASKANTHA	2	886	455	3.0	0.0	3.0
10	400 kV	ZERDA-KANKROLI	1	210	67	1.4	0.0	1.4
11	400 kV	ZERDA -BHINMAL	1	164	278	0.0	1.9	-1.9
12	400 kV	VINDHYACHAL -RIHAND	1	498	0	11.5	0.0	11.5
13	400 kV	RAPP-SHUJALPUR	2	7	604	0.0	5.5	-5.5
14	220 kV	BHANPURA-RANPUR	1	0	162	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	131	0	2.0	1.8	0.2
17	220 kV	MALANPUR-AURAIYA	1	80	18	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	0.8	-0.8
					WR-NR	33.7	222.3	-188.5
Import/Export of WR (With SR)								
1	HVDC	BHADRAWATI B/B	-	693	1009	2.2	9.8	-7.6
2	HVDC	RAIGARH-PUGALUR	2	956	803	0.0	1.2	-1.2
3	765 kV	SOLAPUR-RAICHUR	2	903	1692	0.0	17.2	-17.2
4	765 kV	WARDHA-NIZAMABAD	2	0	2667	0.0	44.6	-44.6
5	400 kV	KOLHAPUR-KUDGI	2	1712	0	23.4	0.0	23.4
6	220 kV	KOLHAPUR-CHIKODI	2	0	0	0.0	0.0	0.0
7	220 kV	PONDA-AMBEWADI	1	1	0	0.0	0.0	0.0
8	220 kV	XELDEM-AMBEWADI	1	0	55	0.9	0.0	0.9
					WR-SR	26.5	72.8	-46.3

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)	140	99	101	2.4
	ER	400kV TALA-BINAGURI 1,2,4 (& 400kV MALBASE - BINAGURI) i.e. BINAGURI RECEIPT (from TALA HEP (6*170MW)	101	0	81	2.0
	ER	220kV CHUKHA-BIRPARA 1&2 (& 220kV MALBASE - BIRPARA) i.e. BIRPARA RECEIPT (from CHUKHA HEP 4*84MW)	5	0	-23	-0.6
	NER	132KV-GEYLEGPHU - SALAKATI	37	17	24	0.6
	NER	132kV Motanga-Rangia	19	5	14	0.3
NEPAL	NR	132KV-TANAKPUR(NH) - MAHENDRANAGAR(PG)	-82	0	-75	-1.8
	ER	400KV-MUZAFFARPUR - DHALKEBAR DC	-324	-217	-279	-6.7
	ER	132KV-BIHAR - NEPAL	-357	-129	-256	-6.1

BANGLADESH	ER	BHERAMARA HVDC(BANGLADESH)	-442	-418	-436	-10.5
	NER	132KV-SURAJMANI NAGAR - COMILLA(BANGLADESH)-1	54	0	-45	-1.1
	NER	132KV-SURAJMANI NAGAR - COMILLA(BANGLADESH)-2	53	0	-44	-1.1