



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: 16th 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., 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 15.02.2021.

महोदय/Dear Sir,

आई०ई०जी०सी०-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 15-फरवरी -2021 की अखिल भारतीय प्रणाली की दैनिक ग्रिड निष्पादन रिपोर्ट रा०भा०प्रे०के० 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 15th 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: 16-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)	48934	53042	44282	19790	2520	168568
Peak Shortage (MW)	550	57	0	0	33	640
Energy Met (MU)	990	1266	1063	396	42	3756
Hydro Gen (MU)	104	42	88	31	8	273
Wind Gen (MU)	3	30	29	-	-	62
Solar Gen (MU)*	42.68	33.74	109.00	3.51	0.12	189
Energy Shortage (MU)	11.20	0.90	0.00	0.00	1.34	13.44
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	51682	60350	53125	20148	2608	183075
Time Of Maximum Demand Met (From NLDC SCADA)	09:27	10:48	10:53	18:48	18:26	09:28

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	0.027	0.00	0.00	1.98	1.98	76.76	21.26

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	6237	0	123.1	59.5	-0.7	59	0.00
	Haryana	6509	0	129.2	94.8	0.5	132	0.00
	Rajasthan	13854	0	264.9	93.9	2.1	425	0.00
	Delhi	3718	0	61.6	46.9	-2.2	139	0.00
	UP	16353	0	283.1	84.3	-0.4	215	0.00
	Uttarakhand	2094	0	38.5	23.9	0.0	171	0.00
	HP	1768	0	31.7	26.1	0.5	105	0.00
	J&K(UT) & Ladakh(UT)	2730	550	54.4	47.6	1.2	291	11.20
	Chandigarh	220	0	3.4	3.5	-0.1	17	0.00
WR	Chhattisgarh	4408	0	99.3	54.2	2.1	350	0.90
	Gujarat	16699	0	355.4	135.1	2.0	430	0.00
	MP	14115	0	273.3	165.2	-1.9	695	0.00
	Maharashtra	23094	0	481.5	154.2	-2.9	335	0.00
	Goa	568	0	10.8	10.6	-0.4	151	0.00
	DD	329	0	7.2	7.1	0.1	168	0.00
	DNH	861	0	19.8	19.6	0.2	304	0.00
	AMNSIL	838	0	18.3	3.8	0.6	306	0.00
	SR	Andhra Pradesh	9908	0	192.6	58.4	1.1	581
Telangana		13062	0	246.2	143.8	0.9	824	0.00
Karnataka		13099	0	244.2	83.5	0.3	780	0.00
Kerala		3778	0	75.3	50.8	0.9	237	0.00
Tamil Nadu		14348	0	297.7	195.4	-0.4	558	0.00
Puducherry		369	0	7.4	7.7	-0.3	17	0.00
ER	Bihar	4681	0	84.7	75.1	0.7	400	0.00
	DVC	3025	0	65.9	-52.5	-0.3	292	0.00
	Jharkhand	1455	0	26.0	19.9	-1.9	167	0.00
	Odisha	4740	0	87.7	15.9	-0.3	408	0.00
	West Bengal	6763	0	129.8	22.8	0.0	288	0.00
	Sikkim	100	0	1.5	1.9	-0.4	12	0.00
NER	Arumachal Pradesh	135	2	2.3	2.1	0.0	53	0.01
	Assam	1462	14	24.3	19.4	0.1	134	0.70
	Manipur	224	4	2.9	2.9	-0.1	32	0.01
	Meghalaya	357	0	4.8	3.4	0.0	56	0.60
	Mizoram	114	2	1.7	1.5	-0.2	15	0.01
	Nagaland	132	2	2.2	2.0	0.1	16	0.01
	Tripura	226	2	3.5	2.0	-0.4	37	0.00

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

	Bhutan	Nepal	Bangladesh
Actual (MU)	3.9	-14.2	-20.8
Day Peak (MW)	298.0	-685.3	-963.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	231.1	-254.3	158.7	-136.0	0.5	0.0
Actual(MU)	229.9	-268.4	165.5	-136.9	2.0	-8.0
OD/UD(MU)	-1.2	-14.1	6.8	-1.0	1.5	-8.0

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL	% Share
Central Sector	5696	10843	6312	1365	680	24895	38
State Sector	13303	13756	8582	5255	11	40906	62
Total	18999	24598	14894	6620	691	65801	100

G. Sourcewise generation (MU)

	NR	WR	SR	ER	NER	All India	% Share
Coal	537	1369	540	525	7	2978	78
Lignite	24	7	44	0	0	76	2
Hydro	104	42	88	31	8	273	7
Nuclear	17	16	46	0	0	80	2
Gas, Naptha & Diesel	34	39	12	0	29	114	3
RES (Wind, Solar, Biomass & Others)	72	65	179	4	0	320	8
Total	789	1539	909	560	44	3841	100

Share of RES in total generation (%)	9.18	4.24	19.67	0.63	0.27	8.34
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	24.47	8.03	34.42	6.18	18.91	17.51

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.026
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: 16-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	350	0.0	1.3	-1.3
2	HVDC	PUSAULI B/B	-	0	249	0.0	6.0	-6.0
3	765 kV	GAYA-VARANASI	2	0	803	0.0	11.5	-11.5
4	765 kV	SASARAM-FATEHPUR	1	10	361	0.0	4.9	-4.9
5	765 kV	GAYA-BALIA	1	0	455	0.0	7.2	-7.2
6	400 kV	PUSAULI-VARANASI	1	0	226	0.0	4.8	-4.8
7	400 kV	PUSAULI -ALLAHABAD	1	0	78	0.0	1.1	-1.1
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	0	732	0.0	8.1	-8.1
9	400 kV	PATNA-BALIA	4	0	986	0.0	15.5	-15.5
10	400 kV	BIHARSHARIF-BALIA	2	0	370	0.0	5.6	-5.6
11	400 kV	MOTIHARI-GORAKHPUR	2	0	310	0.0	5.4	-5.4
12	400 kV	BIHARSHARIF-VARANASI	2	93	220	0.0	1.3	-1.3
13	220 kV	PUSAULI-SAHUPURI	1	66	108	0.0	0.3	-0.3
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-CHANDAUJI	1	0	0	0.0	0.0	0.0
						ER-NR	72.8	-72.1
Import/Export of ER (With WR)								
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	941	73	13.7	0.0	13.7
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	983	444	5.5	0.0	5.5
3	765 kV	JHARSUGUDA-DURG	2	0	503	0.0	6.8	-6.8
4	400 kV	JHARSUGUDA-RAIGARH	4	48	384	0.0	4.3	-4.3
5	400 kV	RANCHI-SIPAT	2	209	197	0.3	0.0	0.3
6	220 kV	BUDHIPADAR-RAIGARH	1	0	192	0.0	3.0	-3.0
7	220 kV	BUDHIPADAR-KORBA	2	80	75	0.2	0.0	0.2
						ER-WR	19.6	5.5
Import/Export of ER (With SR)								
1	HVDC	JEYPORE-GAZUWAKA B/B	2	0	647	0.0	14.1	-14.1
2	HVDC	TALCHER-KOLAR BIPOLE	2	0	1988	0.0	46.3	-46.3
3	765 kV	ANGUL-SRIKAKULAM	2	0	2879	0.0	53.4	-53.4
4	400 kV	TALCHER-I/C	2	0	1205	0.0	14.2	-14.2
5	220 kV	BALIMELA-UPPER-SILERRU	1	1	0	0.0	0.0	0.0
						ER-SR	0.0	-113.8
Import/Export of ER (With NER)								
1	400 kV	BINAGURI-BONGAIGAON	2	237	145	1.3	0.0	1.3
2	400 kV	ALIPURDUAR-BONGAIGAON	2	399	143	3.0	0.0	3.0
3	220 kV	ALIPURDUAR-SALAKATI	2	66	13	0.7	0.0	0.7
						ER-NER	5.1	5.1
Import/Export of NER (With NR)								
1	HVDC	BISWANATH CHARIALL-AGRA	2	486	0	7.6	0.0	7.6
						NER-NR	7.6	7.6
Import/Export of WR (With NR)								
1	HVDC	CHAMPA-KURUKSHETRA	2	0	1504	0.0	42.0	-42.0
2	HVDC	VINDHYACHAL B/B	-	238	0	6.0	0.0	6.0
3	HVDC	MUNDA-MOHENDERGARH	2	0	986	0.0	24.2	-24.2
4	765 kV	GWALIOR-AGRA	2	0	2740	0.0	40.2	-40.2
5	765 kV	PHAGI-GWALIOR	2	0	1524	0.0	25.2	-25.2
6	765 kV	JABALPUR-ORAI	2	947	1057	0.0	32.2	-32.2
7	765 kV	GWALIOR-ORAI	1	694	0	12.1	0.0	12.1
8	765 kV	SATNA-ORAI	1	0	1395	0.0	27.2	-27.2
9	765 kV	CHITORGARH-BANASKANTHA	2	355	932	0.8	5.9	-5.1
10	400 kV	ZERDA-KANKROLI	1	127	128	0.5	0.0	0.5
11	400 kV	ZERDA -BHINMAL	1	134	336	0.0	2.5	-2.5
12	400 kV	VINDHYACHAL -RIHAND	1	487	0	11.0	0.0	11.0
13	400 kV	RAMP-SHIVAPUR	2	54	560	0.0	4.7	-4.7
14	220 kV	BHANPURA-RANPUR	1	0	194	0.0	2.5	-2.5
15	220 kV	BHANPURA-MORAK	1	0	30	0.0	2.3	-2.3
16	220 kV	MEHGAON-AURAIYA	1	129	0	2.7	1.9	0.8
17	220 kV	MALANPUR-AURAIYA	1	80	18	2.4	0.0	2.4
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	-176.2
Import/Export of WR (With SR)								
1	HVDC	BHADRAWATI B/B	-	0	1016	0.0	15.3	-15.3
2	HVDC	RAIGARH-PUGAUR	2	0	1502	0.0	16.9	-16.9
3	765 kV	SOLAPUR-RAICHUR	2	462	2013	0.0	21.8	-21.8
4	765 kV	WARDHA-NIZAMABAD	2	0	2815	0.0	49.9	-49.9
5	400 kV	KOLHAPUR-KUDGI	2	1228	0	15.5	0.0	15.5
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	1	85	1.2	0.0	1.2
						WR-SR	16.6	-87.3

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 MANGDECHHU HEP 4*180MW)	156	0	93	2.2
	ER	400KV TALA-BINAGURI 1,2,4 (& 400KV MALBASE - BINAGURI) I.e. BINAGURI RECEIPT (from TALA HEP 6*170MW)	93	0	76	1.8
	ER	220KV CHUKHA-BIRPARA 1&2 (& 220KV MALBASE - BIRPARA) I.e. BIRPARA RECEIPT (from CHUKHA HEP 4*84MW)	11	0	-8	-0.2
	NER	132KV-GEYLEGPHU - SALAKATI	27	7	13	0.3
NEPAL	NER	132KV Motanga-Rangia	12	-3	5	0.1
	ER	132KV-TANAKPUR(NH) - MAHENDRANAGAR(PG)	-80	0	-75	-1.8
	ER	400KV-MUZAFFARPUR - DHALKEBAR DC	-278	-225	-277	-6.7
BANGLADESH	ER	132KV-BIHAR - NEPAL	-327	-209	-240	-5.8
	ER	BHERAMARA HVDC(BANGLADESH)	-855	-545	-774	-18.6
	NER	132KV-SURAJMANI NAGAR - COMILLA(BANGLADESH)-1	54	0	-45	-1.1
	NER	132KV-SURAJMANI NAGAR - COMILLA(BANGLADESH)-2	54	0	-45	-1.1