



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: 25thJan 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 24.01.2021.

महोदय/Dear Sir,

आई०ई०जी०सी०-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 24-जनवरी -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 24thJanuary 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: 25-Jan-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)	49978	50887	39422	18648	2480	161415
Peak Shortage (MW)	696	0	0	0	36	732
Energy Met (MU)	1018	1256	985	380	43	3682
Hydro Gen (MU)	97	50	74	34	12	267
Wind Gen (MU)	10	55	26	-	-	90
Solar Gen (MU)*	35.83	33.42	104.61	4.32	0.12	178
Energy Shortage (MU)	12.44	0.00	0.00	0.00	0.14	12.58
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	54085	60828	49412	18896	2531	181013
Time Of Maximum Demand Met (From NLDC SCADA)	10:28	10:42	09:32	18:45	17:56	10:42

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	0.029	0.00	0.00	1.19	1.19	73.39	25.42

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	6626	0	124.2	57.9	-1.5	31	0.00
	Haryana	6234	0	127.3	79.0	0.6	184	0.00
	Rajasthan	14039	0	262.7	89.0	-0.3	471	0.00
	Delhi	4490	0	72.9	59.6	0.8	337	0.00
	UP	17592	0	303.3	97.3	-1.1	467	0.00
	Uttarakhand	2175	0	39.6	22.9	0.6	236	0.00
	HP	1741	0	31.0	25.4	0.2	228	0.04
	J&K(UT) & Ladakh(UT)	2558	600	53.0	48.0	-0.6	145	12.40
WR	Chandigarh	219	0	3.8	3.8	-0.1	33	0.00
	Chhattisgarh	4330	0	94.1	44.9	0.0	205	0.00
	Gujarat	16360	0	338.5	108.3	-0.2	596	0.00
	MP	14865	0	292.5	177.6	-3.4	452	0.00
	Maharashtra	23433	0	478.6	143.3	-2.7	636	0.00
	Goa	460	0	9.9	9.4	-0.1	22	0.00
	DD	318	0	7.4	7.0	0.4	24	0.00
	DNH	821	0	19.3	19.3	0.0	40	0.00
	AMNSIL	775	0	16.0	10.4	-0.5	305	0.00
	SR	Andhra Pradesh	9766	0	182.2	72.8	1.3	576
Telangana		12517	0	239.0	125.6	0.6	838	0.00
Karnataka		11450	0	219.2	85.1	0.5	803	0.00
Kerala		3393	0	68.5	45.2	1.5	358	0.00
Tamil Nadu		12452	0	268.7	151.3	-0.6	331	0.00
Puducherry		333	0	6.9	7.1	-0.2	30	0.00
ER	Bihar	4858	0	89.4	80.1	0.7	391	0.00
	DVC	3053	0	66.0	-39.0	-1.1	258	0.00
	Jharkhand	1470	0	26.0	19.9	-2.8	144	0.00
	Odisha	3915	0	74.4	-1.0	0.9	509	0.00
	West Bengal	6393	0	122.7	0.5	0.2	356	0.00
	Sikkim	118	0	1.5	1.8	-0.2	26	0.00
NER	Arunachal Pradesh	131	2	2.2	2.4	-0.3	32	0.01
	Assam	1379	16	23.4	18.2	0.3	157	0.10
	Manipur	232	2	2.9	3.3	-0.4	17	0.01
	Meghalaya	364	0	6.7	4.5	0.1	56	0.00
	Mizoram	126	2	2.0	1.7	0.0	21	0.01
	Nagaland	123	1	2.1	2.0	0.0	20	0.01
Tripura	230	2	3.4	2.3	-0.2	36	0.00	

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

	Bhutan	Nepal	Bangladesh
Actual (MU)	4.3	-12.0	-18.7
Day Peak (MW)	249.0	-624.9	-988.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	245.3	-244.5	123.3	-122.7	-1.4	0.0
Actual(MU)	239.5	-246.5	133.5	-128.5	-1.0	-3.0
O/D/U/D(MU)	-5.8	-2.0	10.2	-5.8	0.5	-3.0

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL	% Share
Central Sector	6556	12074	7332	2705	564	29231	45
State Sector	8865	12848	9347	4195	11	35265	55
Total	15421	24922	16679	6900	575	64495	100

G. Sourcewise generation (MU)

	NR	WR	SR	ER	NER	All India	% Share
Coal	559	1329	529	500	7	2922	77
Lignite	24	9	32	0	0	64	2
Hydro	97	50	74	34	12	267	7
Nuclear	18	24	47	0	0	89	2
Gas, Naptha & Diesel	23	30	10	0	29	93	2
RES (Wind, Solar, Biomass & Others)	74	89	169	4	0	336	9
Total	795	1530	860	538	48	3771	100

Share of RES in total generation (%)	9.29	5.82	19.67	0.81	0.25	8.92
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	23.82	10.61	33.74	7.05	25.07	18.35

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.026
Based on State Max Demands	1.046

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: 25-Jan-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	-	2	248	0.0	6.3	-6.3
3	765 kV	GAYA-VARANASI	2	0	1010	0.0	13.2	-13.2
4	765 kV	SASARAM-EATEHPUR	1	0	346	0.0	4.5	-4.5
5	765 kV	GAYA-BALIA	1	0	524	0.0	8.0	-8.0
6	400 kV	PUSAULI-VARANASI	1	0	190	0.0	2.3	-2.3
7	400 kV	PUSAULI-ALLAHABAD	1	0	263	0.0	3.7	-3.7
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	0	804	0.0	10.3	-10.3
9	400 kV	PATNA-BALIA	4	0	1075	0.0	17.3	-17.3
10	400 kV	BIHARSHARIFF-BALIA	2	0	417	0.0	5.2	-5.2
11	400 kV	MOTIHARI-GORAKHPUR	2	0	356	0.0	6.1	-6.1
12	400 kV	BIHARSHARIFF-VARANASI	2	25	309	0.0	2.7	-2.7
13	220 kV	PUSAULI-SAHUPURI	1	47	9	0.0	0.0	0.0
14	132 kV	SONWARI-RIHAND	1	0	0	0.0	0.0	0.0
15	132 kV	GARWAH-RIHAND	1	20	0	0.4	0.0	0.4
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	0.4	-79.2
Import/Export of ER (With WR)								
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	875	348	9.4	0.0	9.4
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	790	446	1.7	0.0	1.7
3	765 kV	JHARSUGUDA-DURG	2	133	205	0.0	2.6	-2.6
4	400 kV	JHARSUGUDA-RAIGARH	4	130	452	0.0	5.5	-5.5
5	400 kV	RANCHI-SIPAT	2	285	124	1.3	0.0	1.3
6	220 kV	BUDHIPADAR-RAIGARH	1	8	150	0.0	1.9	-1.9
7	220 kV	BUDHIPADAR-KORBA	2	131	50	1.2	0.0	1.2
						ER-WR	13.6	3.7
Import/Export of ER (With SR)								
1	HVDC	JEYPORE-GAZUWAKA B/B	2	0	594	0.0	9.4	-9.4
2	HVDC	TALCHER-KOLAR BIPOLE	2	0	1985	0.0	41.3	-41.3
3	765 kV	ANGUL-SRIKAKULAM	2	0	2752	0.0	53.1	-53.1
4	400 kV	TALCHER-I/C	2	97	678	0.0	7.9	-7.9
5	220 kV	BALIMELA-UPPER-SILERRU	1	1	0	0.0	0.0	0.0
						ER-SR	0.0	-103.8
Import/Export of ER (With NER)								
1	400 kV	BINAGURI-BONGAIGAON	2	265	17	4.2	0.0	4.2
2	400 kV	ALIPURDUAR-BONGAIGAON	2	418	0	5.6	0.0	5.6
3	220 kV	ALIPURDUAR-SALAKATI	2	77	4	1.1	0.0	1.1
						ER-NER	10.9	0.0
Import/Export of NER (With NR)								
1	HVDC	BISWANATH CHARIALL-AGRA	2	489	0	10.8	0.0	10.8
						NER-NR	10.8	0.0
Import/Export of WR (With NR)								
1	HVDC	CHAMPA-KURUKSHETRA	2	0	2505	0.0	37.1	-37.1
2	HVDC	VINDHYACHAL B/B	-	240	0	6.0	0.0	6.0
3	HVDC	MUNDA-MOHINDERGARH	2	0	1924	0.0	41.2	-41.2
4	765 kV	GWALIOR-AGRA	2	0	2973	0.0	39.3	-39.3
5	765 kV	PHAGI-GWALIOR	2	0	1527	0.0	27.2	-27.2
6	765 kV	JABALPUR-ORAI	2	0	1232	0.0	35.4	-35.4
7	765 kV	GWALIOR-ORAI	1	773	0	14.2	0.0	14.2
8	765 kV	SATNA-ORAI	1	0	1398	0.0	25.2	-25.2
9	765 kV	CHITORGARH-BANASKANTHA	2	443	725	0.0	0.0	0.0
10	400 kV	ZERDA-KANKROLI	1	122	110	0.7	0.0	0.7
11	400 kV	ZERDA -BHINMAL	1	92	296	0.0	1.9	-1.9
12	400 kV	VINDHYACHAL -RIHAND	1	491	0	11.2	0.0	11.2
13	400 kV	RAPP-SHUALPUR	2	95	645	0.1	5.0	-4.9
14	220 kV	BHANPURA-RANPUR	1	0	183	0.0	2.3	-2.3
15	220 kV	BHANPURA-MORAK	1	0	30	0.0	1.3	-1.3
16	220 kV	MEHGAON-AURAIYA	1	147	7	2.3	1.4	0.9
17	220 kV	MALANPUR-AURAIYA	1	97	41	1.4	0.0	1.4
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	0.6	-0.6
						WR-NR	35.9	-177.1
Import/Export of WR (With SR)								
1	HVDC	BHADRAWATI B/B	-	300	1016	1.2	4.9	-3.7
2	HVDC	RAIGARH-PUGALUR	2	0	1501	0.0	8.4	-8.4
3	765 kV	SOLAPUR-RAICHUR	2	764	1990	0.0	18.8	-18.8
4	765 kV	WARDHA-NIZAMABAD	2	0	3097	0.0	55.8	-55.8
5	400 kV	KOLHAPUR-KUDGI	2	1428	0	20.4	0.0	20.4
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	NELDEM-AMBEWADI	1	0	40	1.7	0.0	1.7
						WR-SR	23.3	-64.6
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)	120	0	112	2.7		
	ER	400KV TALA-BINAGURI 1,2,3 (& 400KV MALBASE - BINAGURI) i.e. BINAGURI RECEIPT (from TALA HEP (6*170MW)	99	92	93	2.2		
	ER	220KV CHUKHA-BIRPARA 1&2 & 220KV MALBASE - BIRPARA) i.e. BIRPARA RECEIPT (from CHUKHA HEP 4*84MW)	0	0	0	-0.6		
	NER	132KV-GEYLEGPHU - SALAKATI	19	11	18	0.4		
	NER	132KV Motanga-Rangia	16	5	-11	-0.3		
NEPAL	NR	132KV-TANAKPUR(NH) - MAHENDRANAGAR(PG)	-85	0	-72	-1.7		
	ER	400KV-MUZAFFARPUR - DHALKEBAR DC	-278	-174	-253	-6.1		
	ER	132KV-BIHAR - NEPAL	-262	-61	-174	-4.2		
BANGLADESH	ER	BHERAMARA HVDC(BANGLADESH)	-882	-438	-695	-16.7		
	NER	132KV-SURAJMANI NAGAR - COMILLA(BANGLADESH)-1	53	0	-43	-1.0		
	NER	132KV-SURAJMANI NAGAR - COMILLA(BANGLADESH)-2	53	0	-43	-1.0		