



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: 10th Jan 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 09.01.2021.

महोदय/Dear Sir,

आईईजीसी-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 09-जनवरी -2021 की अखिल भारतीय प्रणाली की दैनिक ग्रिड निष्पादन रिपोर्ट रांभांप्रेके 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 9th January 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-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)	48636	51178	38521	16777	2534	157646
Peak Shortage (MW)	829	0	0	0	41	870
Energy Met (MU)	945	1185	878	370	43	3421
Hydro Gen (MU)	102	42	64	34	11	253
Wind Gen (MU)	25	97	36	-	-	158
Solar Gen (MU)*	25.14	18.97	64.13	4.85	0.11	113
Energy Shortage (MU)	12.44	0.00	0.00	0.00	0.74	13.18
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	49589	56780	42520	17053	2613	164085
Time Of Maximum Demand Met (From NLDC SCADA)	09:51	10:40	08:24	18:36	17:48	09:25

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	0.039	0.00	0.89	5.02	5.91	77.59	16.49

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	120.0	57.6	-1.0	56	0.00
	Haryana	6319	0	119.8	88.9	0.5	172	0.00
	Rajasthan	12404	0	231.5	75.4	0.0	459	0.00
	Delhi	4124	0	68.3	57.1	-0.8	262	0.04
	UP	15510	0	273.3	85.6	-4.1	176	0.00
	Uttarakhand	2216	0	40.1	22.9	-0.5	132	0.00
	HP	1823	0	32.8	27.0	-0.3	117	0.00
	J&K(UT) & Ladakh(UT)	2811	600	55.1	48.4	0.8	340	12.40
WR	Chandigarh	220	0	3.6	3.6	0.0	30	0.00
	Chhattisgarh	4159	0	88.9	39.6	-0.2	184	0.00
	Gujarat	17007	0	341.9	96.4	-0.3	1126	0.00
	MP	12784	0	256.1	160.3	-3.5	619	0.00
	Maharashtra	21369	0	440.8	164.1	-3.4	579	0.00
	Goa	589	0	12.6	11.9	0.3	47	0.00
	DD	333	0	7.5	7.3	0.2	33	0.00
	DNH	851	0	19.5	19.5	0.0	45	0.00
SR	AMNSIL	832	0	18.0	11.5	0.0	263	0.00
	Andhra Pradesh	7996	0	159.6	59.5	1.1	634	0.00
	Telangana	11375	0	211.0	89.7	0.2	524	0.00
	Karnataka	9284	0	172.7	71.5	-1.2	570	0.00
	Kerala	3413	0	69.2	51.7	-0.2	177	0.00
	Tamil Nadu	12691	0	258.0	167.5	0.1	463	0.00
	Puducherry	342	0	7.0	7.3	-0.2	19	0.00
	Bihar	4557	0	81.7	79.1	-1.9	546	0.00
ER	DVC	2325	0	66.7	-36.8	2.3	241	0.00
	Jharkhand	1450	0	26.3	21.4	-3.2	53	0.00
	Odisha	3449	0	72.3	3.4	1.6	548	0.00
	West Bengal	6218	0	121.1	14.0	-0.3	441	0.00
	Sikkim	141	0	1.9	1.9	0.1	46	0.00
	NER	Arumachal Pradesh	139	1	2.1	2.4	-0.3	30
Assam		1456	15	24.0	18.8	-0.1	85	0.70
Manipur		230	1	2.9	3.2	-0.3	34	0.01
Meghalaya		367	0	6.6	5.1	0.0	31	0.00
Mizoram		115	1	1.7	1.4	-0.1	22	0.01
Nagaland		130	2	2.1	2.0	0.0	24	0.01
Tripura		217	0	3.6	2.9	-0.3	35	0.00

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

	Bhutan	Nepal	Bangladesh
Actual (MU)	4.7	-11.0	-16.6
Day Peak (MW)	274.0	-573.3	-835.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	239.5	-237.7	106.2	-109.7	1.7	0.0
Actual(MU)	222.5	-241.8	112.2	-104.6	1.6	-10.1
OD/UD(MU)	-17.1	-4.1	6.0	5.1	-0.1	-10.1

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL
Central Sector	6549	13823	7562	2480	699	31112
State Sector	12459	16413	10139	6452	11	45473
Total	19008	30235	17701	8932	710	76585

G. Sourcewise generation (MU)

	NR	WR	SR	ER	NER	All India
Coal	496	1230	462	466	7	2661
Lignite	21	8	30	0	0	59
Hydro	102	42	64	34	11	253
Nuclear	18	21	64	0	0	104
Gas, Naptha & Diesel	23	26	13	0	29	90
RES (Wind, Solar, Biomass & Others)	80	117	137	5	0	339
Total	740	1444	771	505	46	3506
Share of RES in total generation (%)	10.78	8.07	17.83	0.96	0.24	9.66
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	27.11	12.43	34.49	7.69	23.87	19.85

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.027
Based on State Max Demands	1.071

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-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	-	0	249	0.0	6.1	-6.1	
3	765 kV	GAYA-VARANASI	2	0	1030	0.0	12.2	-12.2	
4	765 kV	SASARAM-FATEHPUR	1	41	350	0.0	2.9	-2.9	
5	765 kV	GAYA-BALIA	1	0	472	0.0	7.4	-7.4	
6	400 kV	PUSAULI-VARANASI	1	0	253	0.0	4.2	-4.2	
7	400 kV	PUSAULI -ALLAHABAD	1	0	260	0.0	1.7	-1.7	
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	0	945	0.0	8.4	-8.4	
9	400 kV	PATNA-BALIA	4	0	1144	0.0	16.2	-16.2	
10	400 kV	BIHARSHARIF-BALIA	2	0	435	0.0	5.4	-5.4	
11	400 kV	MOTIHARI-GORAKHPUR	2	0	384	0.0	5.3	-5.3	
12	400 kV	BIHARSHARIF-VARANASI	2	43	406	0.0	2.0	-2.0	
13	220 kV	PUSAULI-SAHUPURI	1	51	77	0.0	0.1	-0.1	
14	132 kV	SONE NAGAR-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-CHANDAUJI	1	0	44	0.0	0.0	0.0	
						ER-NR	0.4	71.7	-71.4
Import/Export of ER (With WR)									
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	748	0	9.4	0.0	9.4	
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	757	204	8.4	0.0	8.4	
3	765 kV	JHARSUGUDA-DURG	2	0	275	0.0	2.8	-2.8	
4	400 kV	JHARSUGUDA-RAIGARH	4	0	442	0.0	5.0	-5.0	
5	400 kV	RANCHI-SIPAT	2	248	86	3.1	0.0	3.1	
6	220 kV	BUDHIPADAR-RAIGARH	1	0	146	0.0	1.8	-1.8	
7	220 kV	BUDHIPADAR-KORBA	2	77	72	0.2	0.0	0.2	
						ER-WR	21.1	9.5	11.6
Import/Export of ER (With SR)									
1	HVDC	JEYPORE-GAZUWAKA B/B	2	0	429	0.0	10.0	-10.0	
2	HVDC	TALCHER-KOLAR BIPOLE	2	0	1978	0.0	31.4	-31.4	
3	765 kV	ANGUL-SRIKAKULAM	2	0	2733	0.0	49.4	-49.4	
4	400 kV	TALCHER-I/C	2	467	883	0.0	1.3	-1.3	
5	220 kV	BALIMELA-UPPER-SILERRU	1	1	0	0.0	0.0	0.0	
						ER-SR	0.0	90.7	-90.7
Import/Export of ER (With NER)									
1	400 kV	BINAGURI-BONGAIGAON	2	238	69	3.1	0.0	3.1	
2	400 kV	ALIPURDUAR-BONGAIGAON	2	390	74	5.6	0.0	5.6	
3	220 kV	ALIPURDUAR-SALAKATI	2	68	17	0.8	0.0	0.8	
						ER-NER	9.4	0.0	9.4
Import/Export of NER (With NR)									
1	HVDC	BISWANATH CHARIALI-AGRA	2	472	0	10.7	0.0	10.7	
						NER-NR	10.7	0.0	10.7
Import/Export of WR (With NR)									
1	HVDC	CHAMPA-KURUKSHETRA	2	0	1007	0.0	33.6	-33.6	
2	HVDC	VINDHYACHAL B/B	-	240	0	6.0	0.0	6.0	
3	HVDC	MUNDA-MOHENDERGARH	2	0	1645	0.0	36.6	-36.6	
4	765 kV	GWALIOR-AGRA	2	0	2578	0.0	44.4	-44.4	
5	765 kV	PHAGI-GWALIOR	2	0	1526	0.0	21.1	-21.1	
6	765 kV	JABALPUR-ORAI	2	0	1138	0.0	35.1	-35.1	
7	765 kV	GWALIOR-ORAI	1	789	0	0.0	14.5	-14.5	
8	765 kV	SATNA-ORAI	1	0	1475	0.0	28.0	-28.0	
9	765 kV	CHITORGARH-BANASKANTHA	2	247	1219	0.0	10.6	-10.6	
10	400 kV	ZERDA-KANKROLI	1	146	155	0.0	0.1	-0.1	
11	400 kV	ZERDA -BHINMAL	1	154	307	0.0	2.0	-2.0	
12	400 kV	VINDHYACHAL -RIHAND	1	976	0	22.2	0.0	22.2	
13	400 kV	RAPT-SHILAPUR	1	144	0	0.0	4.2	-4.2	
14	220 kV	BHANPURA-RANPUR	1	0	224	0.0	2.5	-2.5	
15	220 kV	BHANPURA-MORAK	1	0	30	0.0	1.4	-1.4	
16	220 kV	MEHGAON-AURAIYA	1	113	0	0.6	0.0	0.6	
17	220 kV	MALANPUR-AURAIYA	1	67	17	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	0.0	0.0	
						WR-NR	30.3	234.1	-203.8
Import/Export of WR (With SR)									
1	HVDC	BHADRAWATI B/B	-	0	414	0.0	8.7	-8.7	
2	HVDC	RAIGARH-PUGAUR	2	0	499	0.0	9.1	-9.1	
3	765 kV	SOLAPUR-RAICHUR	2	475	2014	0.0	21.6	-21.6	
4	765 kV	WARDHA-NIZAMABAD	2	0	2574	0.0	35.4	-35.4	
5	400 kV	KOLHAPUR-KUDGI	2	1399	0	21.2	0.0	21.2	
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	1	0	0.0	0.0	0.0	
						WR-SR	21.2	74.8	-53.6
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)	115	115	115	2.9			
	ER	400KV TALA-BINAGURI 1,2,4 (& 400KV MALBASE - BINAGURI) I.e. BINAGURI RECEIPT (from TALA HEP 6*170MW)	112	0	96	2.3			
	ER	220KV CHUKHA-BIRPARA 1&2 (& 220KV MALBASE - BIRPARA) I.e. BIRPARA RECEIPT (from CHUKHA HEP 4*84MW)	14	13	14	-0.4			
	NER	132KV-GEYLEGPHU - SALAKATI	23	7	13	0.3			
	NER	132KV Motanga-Rangia	10	0	-2	0.0			
NEPAL	NR	132KV-TANAKPUR(NH) - MAHENDRANAGAR(PG)	-80	0	-68	-1.6			
	ER	400KV-MUZAFFARPUR - DHALKEBAR DC	-266	-198	-255	-6.1			
	ER	132KV-BIHAR - NEPAL	-227	-65	-134	-3.2			
BANGLADESH	ER	BHERAMARA HVDC(BANGLADESH)	-728	-436	-606	-14.5			
	NER	132KV-SURAJMANI NAGAR - COMILLA(BANGLADESH)-1	54	0	-44	-1.1			
	NER	132KV-SURAJMANI NAGAR - COMILLA(BANGLADESH)-2	53	0	-44	-1.1			