



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: 28thJan 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 27.01.2021.

महोदय/Dear Sir,

आईईजीसी-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 27-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 27thJanuary 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: 28-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)	51244	52528	43141	19074	2466	168453
Peak Shortage (MW)	1450	0	0	0	21	1471
Energy Met (MU)	1040	1236	1010	393	44	3723
Hydro Gen (MU)	100	50	78	35	10	273
Wind Gen (MU)	9	50	46	-	-	105
Solar Gen (MU)*	39.51	36.59	103.65	4.26	0.13	184
Energy Shortage (MU)	13.58	0.00	0.00	0.00	0.34	13.92
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	55543	60709	51316	19132	2577	186214
Time Of Maximum Demand Met (From NLDC SCADA)	10:13	10:36	11:26	19:41	17:49	10:35

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	0.028	0.00	0.00	1.68	1.68	71.48	26.84

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	6918	0	130.8	56.6	-0.7	46	0.00
	Haryana	6792	0	133.8	80.2	2.0	230	0.81
	Rajasthan	13995	0	264.2	85.7	2.8	488	0.00
	Delhi	4579	0	72.3	61.3	-1.4	266	0.00
	UP	18181	0	307.4	94.2	-2.3	288	0.00
	Uttarakhand	2260	0	40.6	24.0	0.7	174	0.37
	HP	1861	0	32.2	26.1	0.8	556	0.00
	J&K(UT) & Ladakh(UT)	2624	600	54.8	49.8	0.1	212	12.40
	Chandigarh	248	0	3.9	3.9	0.0	39	0.00
	WR	Chhattisgarh	4448	0	95.3	48.4	-0.4	266
Gujarat		15972	0	334.5	102.8	1.2	708	0.00
MP		14663	0	284.2	168.2	-3.3	670	0.00
Maharashtra		23544	0	470.6	143.8	-2.0	631	0.00
Goa		496	0	9.8	9.5	-0.2	69	0.00
DD		337	0	6.5	6.3	0.2	24	0.00
DNH		843	0	18.1	17.9	0.2	80	0.00
AMNSIL		777	0	16.7	8.0	0.5	336	0.00
SR	Andhra Pradesh	9977	0	187.1	67.1	1.1	437	0.00
	Telangana	12730	0	239.5	144.7	1.4	1453	0.00
	Karnataka	12257	0	230.0	76.8	0.3	1025	0.00
	Kerala	3671	0	70.4	50.4	0.5	269	0.00
	Tamil Nadu	13411	0	275.3	167.9	-0.8	429	0.00
	Puducherry	388	0	7.7	7.8	-0.2	54	0.00
	Bihar	4802	0	90.8	82.5	1.9	493	0.00
ER	DVC	3112	0	72.6	-46.8	4.9	331	0.00
	Jharkhand	1553	0	25.6	19.3	-2.2	203	0.00
	Odisha	3996	0	76.4	-0.6	0.2	610	0.00
	West Bengal	6498	0	125.9	10.9	-0.8	331	0.00
	Sikkim	127	0	1.9	1.9	0.0	38	0.00
NER	Arunachal Pradesh	142	2	2.5	2.5	-0.1	29	0.01
	Assam	1486	13	24.2	18.6	0.7	125	0.30
	Manipur	236	2	2.8	3.2	-0.4	41	0.01
	Meghalaya	380	0	6.9	4.6	0.1	69	0.00
	Mizoram	124	1	1.8	1.6	-0.2	32	0.01
	Nagaland	126	2	2.2	1.9	0.1	20	0.01
	Tripura	223	4	3.7	2.3	-0.1	46	0.00

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

	Bhutan	Nepal	Bangladesh
Actual (MU)	5.3	-14.8	-18.3
Day Peak (MW)	289.0	-687.0	-843.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	246.1	-270.5	140.5	-117.8	1.7	0.0
Actual(MU)	232.1	-275.1	141.3	-109.4	3.5	-7.6
O/D/U/D(MU)	-14.1	-4.6	0.8	8.5	1.9	-7.6

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL	% Share
Central Sector	6556	11903	6022	2955	699	28135	42
State Sector	9765	14066	10427	4792	11	39061	58
Total	16321	25969	16449	7747	711	67196	100

G. Sourcewise generation (MU)

	NR	WR	SR	ER	NER	All India	% Share
Coal	580	1333	521	488	7	2929	77
Lignite	23	9	36	0	0	68	2
Hydro	100	50	78	35	10	273	7
Nuclear	18	23	47	0	0	88	2
Gas, Naptha & Diesel	23	32	12	0	28	96	3
RES (Wind, Solar, Biomass & Others)	76	88	185	4	0	353	9
Total	822	1534	878	527	45	3806	100
Share of RES in total generation (%)	9.24	5.70	21.11	0.80	0.29	9.28	
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	23.70	10.43	35.27	7.36	22.33	18.74	

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.016
Based on State Max Demands	1.041

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: 28-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	5.9	-5.9	
3	765 kV	GAYA-VARANASI	2	0	846	0.0	10.4	-10.4	
4	765 kV	SASARAM-FATEHPUR	1	27	324	0.0	3.8	-3.8	
5	765 kV	GAYA-BALIA	1	0	590	0.0	8.1	-8.1	
6	400 kV	PUSAULI-VARANASI	1	0	254	0.0	5.2	-5.2	
7	400 kV	PUSAULI-ALLAHABAD	1	0	80	0.0	0.7	-0.7	
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	0	820	0.0	9.1	-9.1	
9	400 kV	PATNA-BALIA	4	0	1111	0.0	16.2	-16.2	
10	400 kV	BIHARSHARIFF-BALIA	2	0	490	0.0	6.0	-6.0	
11	400 kV	MOTIHARI-GORAKHPUR	2	0	361	0.0	5.7	-5.7	
12	400 kV	BIHARSHARIFF-VARANASI	2	82	206	0.0	0.7	-0.7	
13	220 kV	PUSAULI-SAHUPURI	1	66	52	0.3	0.0	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	0.6	0.0	0.6	
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	1.0	71.6	-70.6
Import/Export of ER (With WR)									
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	1073	0	12.7	0.0	12.7	
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	813	157	6.6	0.0	6.6	
3	765 kV	JHARSUGUDA-DURG	2	105	328	0.0	2.3	-2.3	
4	400 kV	JHARSUGUDA-RAIGARH	4	115	367	0.0	1.9	-1.9	
5	400 kV	RANCHI-SIPAT	2	276	68	2.9	0.0	2.9	
6	220 kV	BUDHIPADAR-RAIGARH	1	0	122	0.0	1.6	-1.6	
7	220 kV	BUDHIPADAR-KORBA	2	122	0	1.9	0.0	1.9	
						ER-WR	24.1	5.7	18.3
Import/Export of ER (With SR)									
1	HVDC	JEYPORE-GAZUWAKA B/B	2	0	537	0.0	11.4	-11.4	
2	HVDC	TALCHER-KOLAR BIPOLE	2	0	2470	0.0	37.1	-37.1	
3	765 kV	ANGUL-SRIKAKULAM	2	0	2719	0.0	49.8	-49.8	
4	400 kV	TALCHER-I/C	2	424	1103	0.0	7.2	-7.2	
5	220 kV	BALMELA-UPPER-SILERRU	1	1	0	0.0	0.0	0.0	
						ER-SR	98.3	-98.3	
Import/Export of ER (With NER)									
1	400 kV	BINAGURI-BONGAIGAON	2	250	174	1.8	0.0	1.8	
2	400 kV	ALIPURDUAR-BONGAIGAON	2	400	226	2.4	0.0	2.4	
3	220 kV	ALIPURDUAR-SALAKATI	2	68	52	0.3	0.0	0.3	
						ER-NER	4.5	0.0	4.5
Import/Export of NER (With NR)									
1	HVDC	BISWANATH CHARIALL-AGRA	2	479	0	8.3	0.0	8.3	
						NER-NR	8.3	0.0	8.3
Import/Export of WR (With NR)									
1	HVDC	CHAMPA-KURUKSHETRA	2	0	1753	0.0	48.3	-48.3	
2	HVDC	VINDHYACHAL B/B	-	241	0	6.0	0.0	6.0	
3	HVDC	MUNDRAL-MOHENDERGARH	2	0	1461	0.0	31.1	-31.1	
4	765 kV	GWALIOR-AGRA	2	0	3024	0.0	43.3	-43.3	
5	765 kV	PHAGI-GWALIOR	2	0	1296	0.0	21.5	-21.5	
6	765 kV	JABALPUR-ORAI	2	0	1209	0.0	32.4	-32.4	
7	765 kV	GWALIOR-ORAI	1	675	0	12.4	0.0	12.4	
8	765 kV	SATNA-ORAI	1	0	1492	0.0	26.8	-26.8	
9	765 kV	CHITORGARH-BANASKANTHA	2	451	691	0.0	2.1	-2.1	
10	400 kV	ZERDA-KANKROLI	1	126	109	0.5	0.0	0.5	
11	400 kV	ZERDA-BHNMAL	1	120	313	0.0	2.5	-2.5	
12	400 kV	VINDHYACHAL-RIHAND	1	495	0	11.2	0.0	11.2	
13	400 kV	RAPP-SHULALPUR	2	138	615	0.1	5.1	-5.0	
14	220 kV	BHANPURA-RANPUR	1	0	153	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	120	0	1.9	1.6	0.4	
17	220 kV	MALANPUR-AURAIYA	1	76	22	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	0.7	-0.7	
						WR-NR	33.6	215.2	-181.6
Import/Export of WR (With SR)									
1	HVDC	BHADRAWATI B/B	-	195	1012	0.7	11.2	-10.4	
2	HVDC	RAIGARH-PUGALUR	2	769	1499	0.0	6.3	-6.3	
3	765 kV	SOLAPUR-RAICHUR	2	411	1973	0.0	22.5	-22.5	
4	765 kV	WARDHA-NIZAMABAD	2	0	3238	0.0	55.9	-55.9	
5	400 kV	KOLHAPUR-KUDGI	2	1508	0	19.7	0.0	19.7	
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	40	0.8	0.8	0.0	
						WR-SR	21.2	95.8	-74.6
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	0	104	2.5			
	ER	400KV TALA-BINAGURI 1,2,3 (& 400KV MALBASE - BINAGURI) i.e. BINAGURI RECEIPT (from TALA HEP (6*170MW))	106	0	89	2.1			
	ER	220KV CHUKHA-BIRPARA 1&2 (& 220KV MALBASE - BIRPARA) i.e. BIRPARA RECEIPT (from CHUKHA HEP 4*84MW)	6	0	-10	-0.3			
	NER	132KV-GEYLEGPHU - SALAKATI	41	17	26	0.6			
NEPAL	NR	132KV-TANAKPUR(NH) - MAHENDRANAGAR(PG)	-81	0	-76	-1.8			
	ER	400KV-MUZAFFARPUR - DHALKEBAR DC	-293	-205	-275	-6.6			
	ER	132KV-BIHAR - NEPAL	-313	-142	-266	-6.4			
BANGLADESH	ER	BHERAMARA HVDC(BANGLADESH)	-734	-542	-677	-16.2			
	NER	132KV-SURAJMANI NAGAR - COMILLA(BANGLADESH)-1	55	0	-43	-1.0			
	NER	132KV-SURAJMANI NAGAR - COMILLA(BANGLADESH)-2	54	0	-43	-1.0			