



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: 14th Dec 2020

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 13.12.2020.

महोदय/Dear Sir,

आईईजीसी-2010 की धारा स.5.5.1 के प्रावधान के अनुसार, दिनांक 13-दिसम्बर -2020 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 13th December 2020, 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: 14-Dec-2020

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)	45416	46774	35193	17198	2361	146942
Peak Shortage (MW)	500	0	0	46	38	584
Energy Met (MU)	901	1108	822	341	41	3213
Hydro Gen (MU)	123	38	64	33	12	270
Wind Gen (MU)	12	56	27	-	-	95
Solar Gen (MU)*	30.75	21.65	90.88	4.46	0.07	148
Energy Shortage (MU)	10.00	0.00	0.00	0.14	0.64	10.78
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	47053	53058	39520	17226	2447	155286
Time Of Maximum Demand Met (From NLDC SCADA)	10:29	11:03	10:59	18:02	17:24	10:59

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	1.02	1.02	72.44	26.54

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	5637	0	111.8	74.9	-1.8	25	0.00
	Haryana	5564	0	114.5	89.5	-0.5	277	0.00
	Rajasthan	12495	0	239.3	78.2	-1.2	449	0.00
	Delhi	3533	0	59.0	44.7	0.9	256	0.00
	UP	14799	0	256.4	83.6	-1.6	424	0.00
	Uttarakhand	1915	0	35.3	22.2	0.7	154	0.00
	HP	1598	0	28.7	22.3	-0.7	254	0.00
	J&K(UT) & Ladakh(UT)	2538	500	52.3	46.9	-1.0	204	10.00
	Chandigarh	185	0	3.2	3.1	0.1	30	0.00
WR	Chhattisgarh	3567	0	79.5	22.6	0.0	257	0.00
	Gujarat	14812	0	313.3	59.0	1.1	518	0.00
	MP	11319	0	225.0	137.6	-1.4	335	0.00
	Maharashtra	21442	0	438.7	146.7	-0.9	586	0.00
	Goa	461	0	9.1	8.9	0.2	36	0.00
	DD	295	0	7.0	6.5	0.5	35	0.00
	DNH	773	0	18.0	18.0	0.0	53	0.00
	AMNSIL	788	0	17.0	5.8	0.4	306	0.00
	Andhra Pradesh	7544	0	152.6	69.7	0.8	572	0.00
SR	Telangana	8841	0	172.5	61.0	-0.7	454	0.00
	Karnataka	9772	0	183.7	67.9	0.7	634	0.00
	Kerala	3259	0	65.8	51.3	1.4	239	0.00
	Tamil Nadu	11352	0	241.5	156.8	-0.6	452	0.00
	Puducherry	322	0	6.3	6.5	-0.3	35	0.00
	Bihar	4384	0	74.5	74.3	-1.0	273	0.00
ER	DVC	3012	0	62.2	-34.7	0.8	339	0.00
	Jharkhand	1279	0	25.5	21.7	-1.2	83	0.14
	Odisha	3789	0	70.2	14.4	-1.5	358	0.00
	West Bengal	5756	0	106.8	9.5	0.0	724	0.00
	Sikkim	124	0	1.9	1.7	0.2	47	0.00
	Arunachal Pradesh	115	1	2.0	2.3	-0.3	19	0.01
NER	Assam	1320	7	22.8	18.1	0.5	113	0.60
	Manipur	229	2	3.0	3.4	-0.4	20	0.01
	Meghalaya	368	3	6.5	4.0	0.0	27	0.00
	Mizoram	104	1	1.6	1.4	-0.2	16	0.01
	Nagaland	128	1	2.2	1.9	0.1	20	0.01
	Tripura	227	1	3.3	2.9	-0.3	37	0.00

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

	Bhutan	Nepal	Bangladesh
Actual (MU)	8.4	-6.3	-14.1
Day Peak (MW)	396.0	-444.5	-895.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	245.4	-270.8	123.8	-98.0	-0.4	0.0
Actual(MU)	231.1	-264.1	123.8	-103.2	-0.3	-12.7
OD/UD(MU)	-14.3	6.7	-0.1	-5.2	0.1	-12.7

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL
Central Sector	7035	15545	10172	2170	539	35460
State Sector	13196	13555	13537	5642	11	45940
Total	20231	29099	23709	7812	550	81400

G. Sourcewise generation (MU)

	NR	WR	SR	ER	NER	All India
Coal	430	1158	383	427	6	2406
Lignite	20	12	27	0	0	59
Hydro	123	38	64	33	12	270
Nuclear	28	28	60	0	0	116
Gas, Naptha & Diesel	20	34	12	0	27	94
RES (Wind, Solar, Biomass & Others)	74	78	152	4	0	309
Total	695	1349	699	465	46	3254

Share of RES in total generation (%)	10.61	5.81	21.80	0.96	0.15	9.50
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	32.33	10.72	39.52	8.03	26.38	21.36

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.026
Based on State Max Demands	1.054

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: 14-Dec-2020

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	297	0.0	7.5	-7.5
3	765 kV	GAYA-VARANASI	2	0	1097	0.0	11.3	-11.3
4	765 kV	SASARAM-FATEHPUR	1	91	222	0.0	0.0	0.0
5	765 kV	GAYA-BALIA	1	0	550	0.0	7.5	-7.5
6	400 kV	PUSAULI-VARANASI	1	0	243	0.0	4.9	-4.9
7	400 kV	PUSAULI-ALLAHABAD	1	0	153	0.0	2.4	-2.4
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	0	834	0.0	8.4	-8.4
9	400 kV	PATNA-BALIA	4	0	1245	0.0	15.8	-15.8
10	400 kV	BIHARSHARIFF-BALL	2	0	453	0.0	4.4	-4.4
11	400 kV	MOTIHARI-GORAKHPUR	2	0	363	0.0	5.2	-5.2
12	400 kV	BIHARSHARIFF-VARANASI	2	122	377	0.0	1.5	-1.5
13	220 kV	PUSAULI-SAHUPUR	1	68	87	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	0.4	0.0	0.4
16	132 kV	KARMANASA-SAHUPUR	1	0	0	0.0	0.0	0.0
17	132 kV	KARMANASA-CHANDAUL	1	0	0	0.0	0.0	0.0
						ER-NR	68.8	-68.0
Import/Export of ER (With WR)								
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	646	187	0.6	0.0	0.6
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	796	436	4.8	0.0	4.8
3	765 kV	JHARSUGUDA-DURG	2	104	195	0.0	2.1	-2.1
4	400 kV	JHARSUGUDA-RAIGARH	4	3991	223	0.0	0.6	-0.6
5	400 kV	RANCHI-SIPAT	2	251	170	1.3	0.0	1.3
6	220 kV	BUDHIPADAR-RAIGARH	1	19	85	0.0	0.7	-0.7
7	220 kV	BUDHIPADAR-KORBA	2	116	13	1.2	0.0	1.2
						ER-WR	7.9	4.6
Import/Export of ER (With SR)								
1	HVDC	JEYPORE-GAZUWAKA B/I	2	0	523	0.0	12.3	-12.3
2	HVDC	TALCHER-KOLAR BIPOLI	2	0	1980	0.0	34.1	-34.1
3	765 kV	ANGUL-SRIKAKULAM	2	0	2602	0.0	41.5	-41.5
4	400 kV	TALCHER-I/C	2	240	882	0.0	4.5	-4.5
5	220 kV	BALIMELA-UPPER-SILERRI	1	1	0	0.0	0.0	0.0
						ER-SR	87.8	-87.8
Import/Export of ER (With NER)								
1	400 kV	BINAGURI-BONGAIGAON	2	286	38	4.0	0.0	4.0
2	400 kV	ALIPURDUAR-BONGAIGAON	2	448	30	6.1	0.0	6.1
3	220 kV	ALIPURDUAR-SALAKAT	2	67	14	0.8	0.0	0.8
						ER-NER	10.9	10.9
Import/Export of NER (With NR)								
1	HVDC	BISWANATH CHARIAL-AGR/	2	472	0	10.9	0.0	10.9
						NER-NR	10.9	10.9
Import/Export of WR (With NR)								
1	HVDC	CHAMPA-KURUKSHETR/	2	0	1504	0.0	38.5	-38.5
2	HVDC	VINDHYACHAL B/I	-	243	0	3.5	0.0	3.5
3	HVDC	MUNDRU-MOHINDERGARH	2	0	1563	0.0	37.2	-37.2
4	765 kV	GWALIOR-AGRA	2	0	3027	0.0	48.6	-48.6
5	765 kV	PHAGGI-GWALIOR	2	0	1654	0.0	20.7	-20.7
6	765 kV	JABALPUR-ORAI	2	0	907	0.0	29.7	-29.7
7	765 kV	GWALIOR-ORAI	1	938	0	13.6	0.0	13.6
8	765 kV	SATNA-ORAI	1	0	1241	0.0	26.9	-26.9
9	765 kV	CHITORGARH-BANASKANTH/	2	18	1180	0.0	14.7	-14.7
10	400 kV	ZERDA-KANKROL	1	36	219	0.0	1.5	-1.5
11	400 kV	ZERDA-BHINMAI	1	0	506	0.0	4.8	-4.8
12	400 kV	VINDHYACHAL-RIHANI	1	973	0	22.4	0.0	22.4
13	400 kV	RAPP-SHUJALPUR	2	35	584	0.0	4.8	-4.8
14	220 kV	BHANPURA-RANPUR	1	0	183	0.0	2.3	-2.3
15	220 kV	BHANPURA-MORAK	1	11	0	0.0	1.4	-1.4
16	220 kV	MEHGAON-AURAIY/	1	107	0	0.5	0.0	0.5
17	220 kV	MALANPUR-AURAIY/	1	70	13	0.0	1.2	1.2
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	41.1	231.1
Import/Export of WR (With SR)								
1	HVDC	BHADRAWATI B/E	-	0	1009	0.0	17.2	-17.2
2	HVDC	RAIGARH-PUGALUR	2	0	1499	0.0	23.8	-23.8
3	765 kV	SOLAPUR-RAICHUR	2	1194	2153	0.0	16.9	-16.9
4	765 kV	WARDHA-NIZAMABAI	2	322	1958	0.0	22.1	-22.1
5	400 kV	KOLHAPUR-KUDC	2	846	0	10.6	0.0	10.6
6	220 kV	KOLHAPUR-CHIKOD	2	0	0	0.0	0.0	0.0
7	220 kV	PONDA-AMBEWAD	1	1	0	0.0	0.0	0.0
8	220 kV	NELDEMI-AMBEWAD	1	0	42	0.0	0.8	0.8
						WR-SR	11.4	79.9
INTERNATIONAL EXCHANGE:								
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)	150	143	146	3.5		
	ER	400kV TALA-BINAGURI 1,2,4 (& 400kV MALBASE - BINAGURI) i.e. BINAGURI RECEIPT (from TALA HEP (6*170MW) 220kV CHUKHA-BIRPARA 1&2 (& 220kV MALBASE - BIRPARA) i.e. BIRPARA RECEIPT (from CHUKHA HEP 4*84MW)	187	183	183	4.4		
	NER	132KV-GEYLEGPHU - SALAKATI	25	7	13	0.3		
	NER	132kV Motanga-Rangia	-13	-2	-6	-0.1		
NEPAL	NR	132KV-TANAKPUR(NH) - MAHENDRANAGAR(PG)	-54	0	-44	-1.1		
	ER	400KV-MUZAFFARPUR - DHALKEBAR DC	-272	-94	-193	-4.6		
	ER	132KV-BIHAR - NEPAL	-119	-1	-26	-0.6		
BANGLADESH	ER	BHERAMARA HVDC(BANGLADESH)	-784	-301	-502	-12.0		
	NER	132KV-SURAJMANI NAGAR - COMILLA(BANGLADESH)-1	56	0	-43	-1.0		
	NER	132KV-SURAJMANI NAGAR - COMILLA(BANGLADESH)-2	55	0	-43	-1.0		