National Load Despatch Centre
राष्ट्रीय भार प्रेषण केंद्र
POWER SYSTEM OPERATION CORPORATION LIMITED
पॉवर 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: 25th 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., डोंगतिएह, 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 24.12.2020.

महोदय/Dear Sir,

आई०ई०जी०सी०-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 24-दिसम्बर -2020 की अखिल भारतीय प्रणाली की दैनिक ग्रिड निष्पादन रिपोर्ट रा०भा०प्रे०के० की वेबसाइट पर उप्लब्ध 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 24th 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:** **25-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)	53080	52424	40389	18854	2537	167284
Peak Shortage (MW)	550	0	0	0	32	582
Energy Met (MU)	1050	1232	934	368	44	3628
Hydro Gen (MU)	108	51	78	35	13	285
Wind Gen (MU)	28	48	39	-	-	114
Solar Gen (MU)*	34.77	30.84	95.92	4.48	0.03	166
Energy Shortage (MU)	11.29	0.00	0.00	0.00	0.65	11.94
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	55354	60213	46711	18994	2579	179230
Time Of Maximum Demand Met (From NLDC SCADA)	10:21	10:42	09:27	18:09	17:52	10:00

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	0.035	0.00	0.94	3.37	4.31	75.25	20.44

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	6658	0	127.4	71.3	-2.5	0	0.00
	Haryana	6613	0	137.3	99.9	0.6	210	0.00
	Rajasthan	14112	0	261.8	84.7	-0.1	448	0.00
	Delhi	4222	0	69.7	50.8	0.1	305	0.00
	UP	17819	0	318.3	109.4	-1.3	588	0.09
	Uttarakhand	2287	0	41.5	23.0	0.3	144	0.00
	HP	1831	0	33.4	27.5	0.3	399	0.00
	J&K(UT) & Ladakh(UT)	3067	550	56.6	51.1	0.7	522	11.20
	Chandigarh	239	0	3.9	3.9	0.0	21	0.00
WR	Chhattisgarh	4067	0	87.1	33.7	0.2	367	0.00
	Gujarat	16485	0	342.1	74.4	2.7	605	0.00
	MP	15007	0	293.9	175.8	-1.7	407	0.00
	Maharashtra	22798	0	452.7	162.2	0.5	826	0.00
	Goa	511	0	10.2	10.0	0.1	31	0.00
	DD	338	0	7.5	7.3	0.2	22	0.00
	DNH	816	0	18.8	18.6	0.2	41	0.00
	AMNSIL	880	0	19.4	9.7	-0.2	313	0.00
SR	Andhra Pradesh	8706	0	164.8	79.9	0.2	327	0.00
	Telangana	10572	0	196.5	80.3	0.3	673	0.00
	Karnataka	11865	0	214.6	79.7	0.3	582	0.00
	Kerala	3654	0	72.9	56.6	0.5	206	0.00
	Tamil Nadu	13584	0	278.6	166.6	-0.5	535	0.00
	Puducherry	340	0	6.8	7.1	-0.3	21	0.00
ER	Bihar	4928	0	86.8	84.3	1.1	614	0.00
	DVC	3048	0	66.1	-43.3	0.5	445	0.00
	Jharkhand	1510	0	26.1	20.8	-1.9	71	0.00
	Odisha	3839	0	70.3	-0.1	-0.4	769	0.00
	West Bengal	6694	0	116.3	5.7	1.1	758	0.00
	Sikkim	146	0	2.3	1.9	0.4	50	0.00
NER	Arunachal Pradesh	130	1	2.3	2.3	-0.1	38	0.01
	Assam	1404	8	23.5	19.5	0.8	129	0.60
	Manipur	244	1	3.4	3.6	-0.1	31	0.01
	Meghalaya	372	3	7.2	4.4	0.2	42	0.00
	Mizoram	115	1	1.9	1.6	-0.1	26	0.01
	Nagaland	139	0	2.3	2.3	-0.2	19	0.02
	Tripura	268	1	3.7	3.3	0.1	37	0.00

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

	Bhutan	Nepal	Bangladesh
Actual (MU)	7.4	-10.5	-15.3
Day Peak (MW)	517.0	-592.3	-916.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	273.1	-286.2	138.2	-126.6	1.5	0.0
Actual(MU)	257.0	-275.5	128.4	-125.5	2.8	-12.9
O/D/U/D(MU)	-16.1	10.7	-9.8	1.2	1.2	-12.9

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL
Central Sector	5020	12575	8042	3100	539	29275
State Sector	10161	15356	11847	3972	11	41346
Total	15181	27930	19889	7072	550	70621

G. Sourcewise generation (MU)

	NR	WR	SR	ER	NER	All India
Coal	531	1314	454	483	7	2789
Lignite	23	12	37	0	0	72
Hydro	108	51	79	35	13	285
Nuclear	27	33	64	0	0	125
Gas, Naptha & Diesel	31	28	11	0	27	97
RES (Wind, Solar, Biomass & Others)	91	80	171	4	0	347
Total	812	1518	816	522	46	3714
Share of RES in total generation (%)	11.24	5.27	21.02	0.85	0.06	9.35
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	27.96	10.79	38.53	7.47	27.27	20.37

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.026
Based on State Max Demands	1.056

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-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	249	0.0	6.1	-6.1
3	765 kV	GAYA-VARANASI	2	0	987	0.0	13.8	-13.8
4	765 kV	SASARAM-FATEHPUR	1	6	349	0.0	3.3	-3.3
5	765 kV	GAYA-BALIA	1	0	603	0.0	9.9	-9.9
6	400 kV	PUSAULI-VARANASI	1	0	202	0.0	4.0	-4.0
7	400 kV	PUSAULI -ALLAHABAD	1	0	132	0.0	1.9	-1.9
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	0	823	0.0	8.8	-8.8
9	400 kV	PATNA-BALIA	4	0	1430	0.0	20.1	-20.1
10	400 kV	BIHARSHARIFF-BALIA	2	0	390	0.0	5.3	-5.3
11	400 kV	MOTIHARI-GORAKHPUR	2	0	343	0.0	5.6	-5.6
12	400 kV	BIHARSHARIFF-VARANASI	2	36	340	0.0	2.3	-2.3
13	220 kV	PUSAULI-SAHUPURI	1	83	38	0.6	0.0	0.6
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-CHANDAULI	1	0	0	0.0	0.0	0.0
					ER-NR	0.9	81.1	-80.2
Import/Export of ER (With WR)								
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	604	454	3.9	0.0	3.9
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	933	304	8.1	0.0	8.1
3	765 kV	JHARSUGUDA-DURG	2	0	342	0.0	4.1	-4.1
4	400 kV	JHARSUGUDA-RAIGARH	4	67	526	0.0	5.5	-5.5
5	400 kV	RANCHI-SIPAT	2	287	153	1.1	0.0	1.1
6	220 kV	BUDHIPADAR-RAIGARH	1	11	137	0.0	1.4	-1.4
7	220 kV	BUDHIPADAR-KORBA	2	86	106	0.0	0.2	-0.2
					ER-WR	13.2	11.1	2.1
Import/Export of ER (With SR)								
1	HVDC	JEYPORE-GAZUWAKA B/B	2	0	475	0.0	11.0	-11.0
2	HVDC	TALCHER-KOLAR BIPOLE	2	0	1982	0.0	44.6	-44.6
3	765 kV	ANGUL-SRIKAKULAM	2	0	2506	0.0	45.3	-45.3
4	400 kV	TALCHER-I/C	2	432	967	0.0	3.6	-3.6
5	220 kV	BALIMELA-UPPER-SILERRU	1	1	0	0.0	0.0	0.0
					ER-SR	0.0	100.9	-100.9
Import/Export of ER (With NER)								
1	400 kV	BINAGURI-BONGAIGAON	2	167	112	2.2	0.0	2.2
2	400 kV	ALIPURDUAR-BONGAIGAON	2	275	151	3.4	0.0	3.4
3	220 kV	ALIPURDUAR-SALAKATI	2	43	37	0.4	0.0	0.4
					ER-NER	6.1	0.0	6.1
Import/Export of NER (With NR)								
1	HVDC	BISWANATH CHARIALI-AGRA	2	491	0	9.1	0.0	9.1
					NER-NR	9.1	0.0	9.1
Import/Export of WR (With NR)								
1	HVDC	CHAMPA-KURUKSHETRA	2	0	2007	0.0	48.3	-48.3
2	HVDC	VINDHYACHAL B/B	-	238	0	2.5	0.0	2.5
3	HVDC	MUNDRA-MOHINDERGARH	2	0	1923	0.0	37.4	-37.4
4	765 kV	GWALIOR-AGRA	2	0	2734	0.0	49.0	-49.0
5	765 kV	PHAGI-GWALIOR	2	0	1640	0.0	24.4	-24.4
6	765 kV	JABALPUR-ORAI	2	0	1299	0.0	43.6	-43.6
7	765 kV	GWALIOR-ORAI	1	833	54	7.5	0.0	7.5
8	765 kV	SATNA-ORAI	1	0	1474	0.0	13.6	-13.6
9	765 kV	CHITORGARH-BANASKANTHA	2	0	927	0.0	11.2	-11.2
10	400 kV	ZERDA-KANKROLI	1	105	145	0.0	0.6	-0.6
11	400 kV	ZERDA -BHINMAL	1	273	282	0.0	1.5	-1.5
12	400 kV	VINDHYACHAL -RIHAND	1	970	0	22.4	0.0	22.4
13	400 kV	RAPP-SHUJALPUR	2	122	478	0.0	3.8	-3.8
14	220 kV	BHANPURA-RANPUR	1	12	184	0.0	2.3	-2.3
15	220 kV	BHANPURA-MORAK	1	11	0	0.1	1.1	-1.0
16	220 kV	MEHGAON-AURAIYA	1	125	0	0.7	0.0	0.6
17	220 kV	MALANPUR-AURAIYA	1	74	15	1.7	0.0	1.7
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	34.9	236.7	-201.9
Import/Export of WR (With SR)								
1	HVDC	BHADRAWATI B/B	-	0	1016	0.0	17.0	-17.0
2	HVDC	RAIGARH-PUGALUR	2	0	998	0.0	15.7	-15.7
3	765 kV	SOLAPUR-RAICHUR	2	695	2292	0.0	23.4	-23.4
4	765 kV	WARDHA-NIZAMABAD	2	0	2389	0.0	33.9	-33.9
5	400 kV	KOLHAPUR-KUDGI	2	1278	0	17.6	0.0	17.6
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	43	0.7	0.0	0.7
					WR-SR	18.4	89.9	-71.6

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 MANGDECHU HEP 4*180MW)	189	129	159	3.8
	ER	400kV TALA-BINAGURI 1,2,4 (& 400kV MALBASE - BINAGURI) i.e. BINAGURI RECEIPT (from TALA HEP (6*170MW)	281	133	144	3.5
	ER	220kV CHUKHA-BIRPARA 1&2 (& 220kV MALBASE - BIRPARA) i.e. BIRPARA RECEIPT (from CHUKHA HEP 4*84MW)	31	0	4	0.1
	NER	132KV-GEYLEGPHU - SALAKATI	24	3	11	0.3
	NER	132kV Motanga-Rangia	-8	6	0	0.0
NEPAL	NR	132KV-TANAKPUR(NH) - MAHENDRANAGAR(PG)	-63	0	-55	-1.3
	ER	400KV-MUZAFFARPUR - DHALKEBAR DC	-264	-196	-238	-5.7
	ER	132KV-BIHAR - NEPAL	-265	-1	-144	-3.5
BANGLADESH	ER	BHERAMARA HVDC(BANGLADESH)	-812	-330	-559	-13.4
	NER	132KV-SURAJMANI NAGAR - COMILLA(BANGLADESH)-1	52	0	-40	-1.0
	NER	132KV-SURAJMANI NAGAR - COMILLA(BANGLADESH)-2	52	0	-40	-1.0