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: 15th 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 14.12.2020.

महोदय/Dear Sir,

आई०ई०जी०सी०-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 14-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 14th 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: 15-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)	48245	48989	38760	17845	2475	156314
Peak Shortage (MW)	500	0	0	51	32	583
Energy Met (MU)	934	1131	868	350	43	3325
Hydro Gen (MU)	122	43	79	35	13	291
Wind Gen (MU)	17	62	41	-	-	119
Solar Gen (MU)*	32.06	17.22	97.25	4.84	0.06	151
Energy Shortage (MU)	10.00	0.00	0.00	0.15	1.17	11.32
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	48668	55703	43167	18244	2533	164226
Time Of Maximum Demand Met (From NLDC SCADA)	10:18	10:43	10:29	18:41	17:45	10:28

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	0.032	0.00	0.03	4.51	4.55	74.22	21.23

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	5800	0	113.5	75.6	-1.2	106	0.00
	Haryana	6342	0	122.0	92.0	1.0	248	0.00
	Rajasthan	12727	0	237.6	73.0	-3.1	185	0.00
	Delhi	3659	0	63.3	46.5	0.9	194	0.00
	UP	15528	0	271.4	84.8	-0.9	207	0.00
	Uttarakhand	1996	0	37.2	23.6	0.6	188	0.00
	HP	1802	0	31.5	24.5	-0.4	198	0.00
	J&K(UT) & Ladakh(UT)	2751	500	53.9	46.2	0.7	281	10.00
	Chandigarh	212	0	3.6	3.5	0.1	33	0.00
WR	Chhattisgarh	3669	0	80.3	23.9	-0.2	204	0.00
	Gujarat	15508	0	326.9	56.9	3.5	804	0.00
	MP	12493	0	234.3	138.0	-2.0	669	0.00
	Maharashtra	21430	0	436.5	156.2	-3.8	575	0.00
	Goa	498	0	10.0	10.2	-0.2	35	0.00
	DD	326	0	7.1	6.9	0.2	28	0.00
	DNH	808	0	18.4	18.4	0.0	45	0.00
	AMNSIL	823	0	17.8	5.8	0.9	311	0.00
SR	Andhra Pradesh	7781	0	156.2	71.3	-0.1	313	0.00
	Telangana	9281	0	177.1	65.0	0.1	562	0.00
	Karnataka	11051	0	199.3	71.0	2.2	752	0.00
	Kerala	3541	0	69.9	51.4	1.3	302	0.00
	Tamil Nadu	12774	0	258.4	163.8	0.9	574	0.00
	Puducherry	348	0	6.9	7.2	-0.3	46	0.00
ER	Bihar	4466	0	75.1	74.3	-0.8	332	0.00
	DVC	3009	0	63.2	-39.1	0.3	308	0.00
	Jharkhand	1420	0	25.1	21.9	-1.7	99	0.15
	Odisha	3924	0	71.0	12.1	-0.8	370	0.00
	West Bengal	6108	0	113.0	14.2	0.1	655	0.00
	Sikkim	138	0	2.1	1.8	0.3	49	0.00
NER	Arunachal Pradesh	112	1	2.0	2.0	0.1	30	0.13
	Assam	1392	21	23.6	18.6	0.5	105	1.00
	Manipur	219	2	3.0	3.4	-0.4	33	0.02
	Meghalaya	385	0	6.8	4.1	0.0	51	0.00
	Mizoram	107	1	1.6	1.4	-0.2	24	0.01
	Nagaland	127	1	2.1	1.9	0.0	17	0.01
	Tripura	216	2	3.5	2.9	-0.3	21	0.00

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

	Bhutan	Nepal	Bangladesh
Actual (MU)	7.6	-6.9	-15.0
Day Peak (MW)	383.0	-502.3	-902.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	248.9	-279.0	141.9	-112.2	0.5	0.0
Actual(MU)	233.2	-273.9	149.0	-113.2	0.8	-4.0
O/D/U/D(MU)	-15.6	5.1	7.1	-1.0	0.4	-4.0

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL
Central Sector	6966	13995	10362	2170	669	34162
State Sector	12696	13564	13537	5642	11	45449
Total	19662	27558	23899	7812	681	79612

G. Sourcewise generation (MU)

	NR	WR	SR	ER	NER	All India
Coal	449	1224	389	444	7	2514
Lignite	21	14	30	0	0	64
Hydro	122	43	79	35	13	292
Nuclear	28	28	46	0	0	103
Gas, Naptha & Diesel	24	36	12	0	27	98
RES (Wind, Solar, Biomass & Others)	79	80	173	5	0	336
Total	722	1425	729	484	47	3407

Share of RES in total generation (%)	10.90	5.60	23.72	1.00	0.13	9.87
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	31.65	10.59	40.92	8.23	28.47	21.45

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.025
Based on State Max Demands	1.052

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: 15-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	299	0.0	7.1	-7.1
3	765 kV	GAYA-VARANASI	2	0	1063	0.0	11.6	-11.6
4	765 kV	SASARAM-FATEHPUR	1	75	285	0.0	0.1	-0.1
5	765 kV	GAYA-BALIA	1	0	557	0.0	8.2	-8.2
6	400 kV	PUSAULI-VARANASI	1	0	241	0.0	4.7	-4.7
7	400 kV	PUSAULI -ALLAHABAD	1	0	143	0.0	2.1	-2.1
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	0	861	0.0	9.0	-9.0
9	400 kV	PATNA-BALIA	4	0	1285	0.0	18.6	-18.6
10	400 kV	BIHARSHARIFF-BALIA	2	0	325	0.0	4.0	-4.0
11	400 kV	MOTIHARI-GORAKHPUR	2	0	370	0.0	5.3	-5.3
12	400 kV	BIHARSHARIFF-VARANASI	2	111	377	0.0	1.5	-1.5
13	220 kV	PUSAULI-SAHUPURI	1	70	103	0.2	0.0	0.2
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	0.8	72.2	-71.4
Import/Export of ER (With WR)								
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	1019	50	6.3	0.0	6.3
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	763	309	5.9	0.0	5.9
3	765 kV	JHARSUGUDA-DURG	2	137	308	0.0	1.7	-1.7
4	400 kV	JHARSUGUDA-RAIGARH	4	310	154	0.1	0.0	0.1
5	400 kV	RANCHI-SIPAT	2	265	109	1.6	0.0	1.6
6	220 kV	BUDHIPADAR-RAIGARH	1	25	89	0.0	0.8	-0.8
7	220 kV	BUDHIPADAR-KORBA	2	111	18	1.2	0.0	1.2
					ER-WR	15.2	2.5	12.7
Import/Export of ER (With SR)								
1	HVDC	JEYPORE-GAZUWAKA B/B	2	0	523	0.0	12.3	-12.3
2	HVDC	TALCHER-KOLAR BIPOLE	2	0	2466	0.0	43.8	-43.8
3	765 kV	ANGUL-SRIKAKULAM	2	31037	2702	0.0	44.8	-44.8
4	400 kV	TALCHER-I/C	2	0	1103	0.0	14.3	-14.3
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	290	30	2.9	0.0	2.9
2	400 kV	ALIPURDUAR-BONGAIGAON	2	431	23	5.9	0.0	5.9
3	220 kV	ALIPURDUAR-SALAKATI	2	69	14	0.8	0.0	0.8
					ER-NER	9.6	0.0	9.6
Import/Export of NER (With NR)								
1	HVDC	BISWANATH CHARIALI-AGRA	2	473	0	10.4	0.0	10.4
					NER-NR	10.4	0.0	10.4
Import/Export of WR (With NR)								
1	HVDC	CHAMPA-KURUKSHETRA	2	0	1502	0.0	30.3	-30.3
2	HVDC	VINDHYACHAL B/B	-	241	103	2.1	1.4	0.7
3	HVDC	MUNDRA-MOHINDERGARH	2	0	1460	0.0	32.4	-32.4
4	765 kV	GWALIOR-AGRA	2	0	2593	0.0	47.5	-47.5
5	765 kV	PHAGI-GWALIOR	2	0	1559	0.0	19.4	-19.4
6	765 kV	JABALPUR-ORAI	2	0	1024	0.0	33.5	-33.5
7	765 kV	GWALIOR-ORAI	1	704	0	10.4	0.0	10.4
8	765 kV	SATNA-ORAI	1	0	1349	0.0	26.7	-26.7
9	765 kV	CHITORGARH-BANASKANTHA	2	0	1254	0.0	14.4	-14.4
10	400 kV	ZERDA-KANKROLI	1	75	170	0.0	1.3	-1.3
11	400 kV	ZERDA -BHINMAL	1	132	386	0.0	3.9	-3.9
12	400 kV	VINDHYACHAL -RIHAND	1	960	0	22.8	0.0	22.8
13	400 kV	RAPP-SHUJALPUR	2	108	447	0.2	4.3	-4.1
14	220 kV	BHANPURA-RANPUR	1	0	161	0.0	2.2	-2.2
15	220 kV	BHANPURA-MORAK	1	11	0	0.1	1.2	-1.1
16	220 kV	MEHGAON-AURAIYA	1	116	0	0.5	0.0	0.5
17	220 kV	MALANPUR-AURAIYA	1	71	20	1.3	0.0	1.3
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	37.3	218.4	-181.1
Import/Export of WR (With SR)								
1	HVDC	BHADRAWATI B/B	-	0	1016	0.0	19.4	-19.4
2	HVDC	RAIGARH-PUGALUR	2	0	1506	0.0	24.9	-24.9
3	765 kV	SOLAPUR-RAICHUR	2	952	2420	0.0	22.3	-22.3
4	765 kV	WARDHA-NIZAMABAD	2	186	2225	0.0	25.4	-25.4
5	400 kV	KOLHAPUR-KUDGI	2	897	0	11.6	0.0	11.6
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	46	0.8	0.0	0.8
					WR-SR	12.5	92.1	-79.6

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)	149	0	136	3.3
	ER	400kV TALA-BINAGURI 1,2,4 (& 400kV MALBASE - BINAGURI) i.e. BINAGURI RECEIPT (from TALA HEP (6*170MW)	184	0	168	4.0
	ER	220kV CHUKHA-BIRPARA 1&2 (& 220kV MALBASE - BIRPARA) i.e. BIRPARA RECEIPT (from CHUKHA HEP 4*84MW)	46	0	13	0.3
	NER	132KV-GEYLEGPHU - SALAKATI	28	2	15	0.3
	NER	132kV Motanga-Rangia	-24	3	-8	-0.2
NEPAL	NR	132KV-TANAKPUR(NH) - MAHENDRANAGAR(PG)	-58	0	-45	-1.1
	ER	400KV-MUZAFFARPUR - DHALKEBAR DC	-264	-104	-180	-4.3
	ER	132KV-BIHAR - NEPAL	-180	-1	-61	-1.5
BANGLADESH	ER	BHERAMARA HVDC(BANGLADESH)	-792	-310	-538	-12.9
	NER	132KV-SURAJMANI NAGAR - COMILLA(BANGLADESH)-1	55	0	-44	-1.1
	NER	132KV-SURAJMANI NAGAR - COMILLA(BANGLADESH)-2	55	0	-44	-1.1