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: 4th 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 03.12.2020.

महोदय/Dear Sir,

आई०ई०जी०सी०-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 03-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 3rd 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:** **04-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)	47150	51308	36990	17602	2443	155493
Peak Shortage (MW)	500	0	0	0	41	541
Energy Met (MU)	950	1225	813	359	43	3390
Hydro Gen (MU)	110	43	87	45	12	298
Wind Gen (MU)	1	24	32	-	-	57
Solar Gen (MU)*	35.63	31.75	56.19	4.24	0.11	128
Energy Shortage (MU)	10.24	0.00	0.00	0.00	0.64	10.88
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	49764	58744	40077	17909	2588	164065
Time Of Maximum Demand Met (From NLDC SCADA)	09:46	10:55	09:48	18:39	17:35	10:39

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	0.037	0.00	0.67	6.90	7.57	79.42	13.01

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	6525	0	127.6	68.7	-1.2	234	0.00
	Haryana	6769	150	133.7	110.5	0.1	137	0.04
	Rajasthan	13170	0	245.2	82.5	1.4	262	0.00
	Delhi	3368	0	59.9	45.1	-2.3	218	0.00
	UP	14794	0	260.6	91.6	-0.5	432	0.00
	Uttarakhand	1972	0	37.0	27.2	1.5	192	0.20
	HP	1646	0	30.6	23.3	0.2	157	0.00
	J&K(UT) & Ladakh(UT)	2655	500	52.6	46.3	1.4	307	10.00
	Chandigarh	195	0	3.2	3.3	-0.1	12	0.00
WR	Chhattisgarh	3522	0	71.8	21.7	-4.7	332	0.00
	Gujarat	16188	0	350.4	71.1	2.4	391	0.00
	MP	14341	0	283.7	175.3	-0.5	928	0.00
	Maharashtra	22725	0	467.4	150.1	-2.4	647	0.00
	Goa	478	0	9.5	9.4	0.0	53	0.00
	DD	311	0	6.1	5.9	0.2	46	0.00
	DNH	803	0	18.4	18.1	0.3	56	0.00
	AMNSIL	783	0	17.3	2.1	0.3	264	0.00
SR	Andhra Pradesh	7124	0	145.0	70.6	1.1	471	0.00
	Telangana	7665	0	151.7	53.8	-0.2	529	0.00
	Karnataka	10889	0	196.2	59.4	2.3	876	0.00
	Kerala	3408	0	70.7	51.8	0.2	189	0.00
	Tamil Nadu	11909	0	243.0	166.8	-3.3	616	0.00
	Puducherry	325	0	6.4	6.7	-0.3	26	0.00
ER	Bihar	4177	0	73.3	71.4	0.8	507	0.00
	DVC	2986	0	65.8	-46.8	3.2	213	0.00
	Jharkhand	1326	0	23.7	21.0	-1.9	151	0.00
	Odisha	4235	0	81.7	11.6	-0.4	258	0.00
	West Bengal	5966	0	113.1	13.1	-0.3	598	0.00
	Sikkim	104	0	1.7	1.8	-0.1	42	0.00
NER	Arunachal Pradesh	127	1	2.2	2.3	-0.1	16	0.01
	Assam	1455	15	24.4	19.7	0.7	91	0.60
	Manipur	235	3	3.0	3.0	0.0	25	0.01
	Meghalaya	357	1	6.0	4.0	-0.2	25	0.00
	Mizoram	102	0	1.6	1.2	0.0	15	0.01
	Nagaland	140	2	2.3	1.9	0.1	15	0.01
	Tripura	216	5	3.5	2.9	-0.3	16	0.00

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

	Bhutan	Nepal	Bangladesh
Actual (MU)	9.8	-5.9	-12.6
Day Peak (MW)	609.0	-392.1	-892.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	270.7	-278.5	133.3	-125.6	0.0	0.0
Actual(MU)	265.3	-272.1	136.6	-137.2	-0.6	-8.0
O/D/U/D(MU)	-5.4	6.4	3.3	-11.6	-0.6	-8.0

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL
Central Sector	6966	15975	11532	2460	689	37621
State Sector	14026	14555	12917	5292	11	46800
Total	20992	30529	24449	7752	700	84421

G. Sourcewise generation (MU)

	NR	WR	SR	ER	NER	All India
Coal	458	1310	387	462	7	2625
Lignite	24	13	17	0	0	54
Hydro	110	43	87	45	12	298
Nuclear	28	33	60	0	0	120
Gas, Naptha & Diesel	24	65	14	0	28	131
RES (Wind, Solar, Biomass & Others)	64	56	124	4	0	248
Total	708	1519	688	512	48	3476
Share of RES in total generation (%)	9.00	3.71	17.95	0.83	0.23	7.14
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	28.50	8.70	39.30	9.64	25.67	19.17

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.031
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: 04-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	7.2	-7.2
3	765 kV	GAYA-VARANASI	2	0	1212	0.0	15.0	-15.0
4	765 kV	SASARAM-FATEHPUR	1	0	451	0.0	4.7	-4.7
5	765 kV	GAYA-BALIA	1	0	527	0.0	7.9	-7.9
6	400 kV	PUSAULI-VARANASI	1	0	221	0.0	4.5	-4.5
7	400 kV	PUSAULI -ALLAHABAD	1	0	150	0.0	2.5	-2.5
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	0	1002	0.0	11.7	-11.7
9	400 kV	PATNA-BALIA	4	0	1332	0.0	18.9	-18.9
10	400 kV	BIHARSHARIFF-BALIA	2	0	536	0.0	6.7	-6.7
11	400 kV	MOTIHARI-GORAKHPUR	2	0	377	0.0	5.3	-5.3
12	400 kV	BIHARSHARIFF-VARANASI	2	18	283	0.0	2.2	-2.2
13	220 kV	PUSAULI-SAHUPURI	1	67	55	0.4	0.0	0.4
14	132 kV	SONE NAGAR-RIHAND	1	0	0	0.0	0.0	0.0
15	132 kV	GARWAH-RIHAND	1	20	0	0.3	0.0	0.3
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	86.6	-85.8
Import/Export of ER (With WR)								
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	375	614	0.0	2.0	-2.0
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	360	553	0.0	0.8	-0.8
3	765 kV	JHARSUGUDA-DURG	2	0	329	0.0	4.0	-4.0
4	400 kV	JHARSUGUDA-RAIGARH	4	250	215	0.0	0.1	-0.1
5	400 kV	RANCHI-SIPAT	2	132	220	0.0	0.0	0.0
6	220 kV	BUDHIPADAR-RAIGARH	1	15	80	0.0	0.7	-0.7
7	220 kV	BUDHIPADAR-KORBA	2	117	19	1.1	0.0	1.1
					ER-WR	1.2	7.6	-6.4
Import/Export of ER (With SR)								
1	HVDC	JEYPORE-GAZUWAKA B/B	2	0	533	0.0	12.4	-12.4
2	HVDC	TALCHER-KOLAR BIPOLE	2	0	1992	0.0	42.3	-42.3
3	765 kV	ANGUL-SRIKAKULAM	2	0	2601	0.0	43.0	-43.0
4	400 kV	TALCHER-I/C	2	0	1112	0.0	9.1	-9.1
5	220 kV	BALIMELA-UPPER-SILERRU	1	1	0	0.0	0.0	0.0
					ER-SR	0.0	97.8	-97.8
Import/Export of ER (With NER)								
1	400 kV	BINAGURI-BONGAIGAON	2	299	65	4.7	0.0	4.7
2	400 kV	ALIPURDUAR-BONGAIGAON	2	461	79	6.8	0.0	6.8
3	220 kV	ALIPURDUAR-SALAKATI	2	70	27	1.0	0.0	1.0
					ER-NER	12.4	0.0	12.4
Import/Export of NER (With NR)								
1	HVDC	BISWANATH CHARIALI-AGRA	2	472	0	11.7	0.0	11.7
					NER-NR	11.7	0.0	11.7
Import/Export of WR (With NR)								
1	HVDC	CHAMPA-KURUKSHETRA	2	0	1516	0.0	44.1	-44.1
2	HVDC	VINDHYACHAL B/B	-	49	0	1.2	0.0	1.2
3	HVDC	MUNDRA-MOHINDERGARH	2	0	1647	0.0	41.1	-41.1
4	765 kV	GWALIOR-AGRA	2	0	2652	0.0	46.9	-46.9
5	765 kV	PHAGI-GWALIOR	2	0	1636	0.0	24.6	-24.6
6	765 kV	JABALPUR-ORAI	2	1	920	0.0	26.6	-26.6
7	765 kV	GWALIOR-ORAI	1	702	0	8.6	0.0	8.6
8	765 kV	SATNA-ORAI	1	0	1640	0.0	31.5	-31.5
9	765 kV	CHITORGARH-BANASKANTHA	2	0	668	0.0	8.0	-8.0
10	400 kV	ZERDA-KANKROLI	1	63	121	0.0	0.7	-0.7
11	400 kV	ZERDA -BHINMAL	1	0	366	0.0	4.8	-4.8
12	400 kV	VINDHYACHAL -RIHAND	1	970	0	22.6	0.0	22.6
13	400 kV	RAPP-SHUJALPUR	2	67	401	0.0	4.1	-4.1
14	220 kV	BHANPURA-RANPUR	1	0	213	0.0	2.9	-2.9
15	220 kV	BHANPURA-MORAK	1	11	0	0.0	1.7	-1.7
16	220 kV	MEHGAON-AURAIYA	1	103	0	0.4	0.1	0.4
17	220 kV	MALANPUR-AURAIYA	1	65	20	1.0	0.0	1.0
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	33.8	237.0	-203.2
Import/Export of WR (With SR)								
1	HVDC	BHADRAWATI B/B	-	0	1016	0.0	14.9	-14.9
2	HVDC	RAIGARH-PUGALUR	2	0	992	0.0	20.1	-20.1
3	765 kV	SOLAPUR-RAICHUR	2	534	2471	0.0	21.3	-21.3
4	765 kV	WARDHA-NIZAMABAD	2	160	2169	0.0	23.9	-23.9
5	400 kV	KOLHAPUR-KUDGI	2	462	84	4.7	0.0	4.7
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	42	0.8	0.0	0.8
					WR-SR	5.5	80.3	-74.8

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)	178	0	144	3.5
	ER	400kV TALA-BINAGURI 1,2,4 (& 400kV MALBASE - BINAGURI) i.e. BINAGURI RECEIPT (from TALA HEP (6*170MW)	340	197	207	5.0
	ER	220kV CHUKHA-BIRPARA 1&2 (& 220kV MALBASE - BIRPARA) i.e. BIRPARA RECEIPT (from CHUKHA HEP 4*84MW)	94	0	56	1.3
	NER	132KV-GEYLEGPHU - SALAKATI	-15	0	5	0.1
	NER	132kV Motanga-Rangia	13	1	-8	-0.2
NEPAL	NR	132KV-TANAKPUR(NH) - MAHENDRANAGAR(PG)	-53	0	-43	-1.0
	ER	400KV-MUZAFFARPUR - DHALKEBAR DC	-224	-86	-185	-4.5
	ER	132KV-BIHAR - NEPAL	-115	-1	-18	-0.4
BANGLADESH	ER	BHERAMARA HVDC(BANGLADESH)	-772	-258	-443	-10.6
	NER	132KV-SURAJMANI NAGAR - COMILLA(BANGLADESH)-1	60	0	-42	-1.0
	NER	132KV-SURAJMANI NAGAR - COMILLA(BANGLADESH)-2	60	0	-42	-1.0