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: 5th 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 04.12.2020.

महोदय/Dear Sir,

आई०ई०जी०सी०-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 04–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 4th 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:** **05-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)	46555	50697	37167	17617	2470	154506
Peak Shortage (MW)	776	0	0	70	11	857
Energy Met (MU)	967	1230	816	356	43	3413
Hydro Gen (MU)	111	43	82	44	13	293
Wind Gen (MU)	6	18	42	-	-	66
Solar Gen (MU)*	35.38	31.18	64.50	4.49	0.12	136
Energy Shortage (MU)	10.48	0.00	0.00	0.21	0.26	10.95
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	49687	59087	40168	17864	2557	164450
Time Of Maximum Demand Met (From NLDC SCADA)	09:45	10:48	09:34	18:58	17:41	10:26

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	0.050	0.00	1.15	9.92	11.06	74.26	14.68

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	6500	0	130.8	72.5	-1.4	78	0.00
	Haryana	6856	0	132.4	109.7	0.4	157	0.08
	Rajasthan	13404	0	251.6	80.6	0.8	306	0.40
	Delhi	3679	0	63.7	46.6	0.3	245	0.00
	UP	14465	870	263.6	92.4	-0.3	479	0.00
	Uttarakhand	1969	0	37.4	28.3	0.4	165	0.00
	HP	1734	0	31.2	24.0	0.8	219	0.00
	J&K(UT) & Ladakh(UT)	2767	500	53.5	47.1	1.1	393	10.00
	Chandigarh	206	0	3.3	3.3	0.0	11	0.00
WR	Chhattisgarh	3561	0	77.1	24.5	0.3	454	0.00
	Gujarat	16412	0	354.9	69.9	4.7	401	0.00
	MP	14600	0	286.1	186.0	-0.5	708	0.00
	Maharashtra	22622	0	459.2	144.2	-2.5	499	0.00
	Goa	514	0	10.0	9.9	0.0	30	0.00
	DD	341	0	7.3	7.1	0.2	27	0.00
	DNH	797	0	18.3	18.0	0.3	64	0.00
	AMNSIL	775	0	17.5	2.2	0.2	252	0.00
SR	Andhra Pradesh	7218	0	147.0	68.6	0.4	717	0.00
	Telangana	8190	0	157.0	52.8	0.6	511	0.00
	Karnataka	10663	0	194.4	53.0	0.2	640	0.00
	Kerala	3512	0	69.4	50.3	0.3	197	0.00
	Tamil Nadu	12081	0	242.1	161.6	0.6	730	0.00
	Puducherry	318	0	6.3	6.5	-0.2	49	0.00
ER	Bihar	4197	0	74.6	73.7	-0.5	380	0.00
	DVC	3055	0	63.6	-45.4	0.3	110	0.00
	Jharkhand	1398	0	23.8	22.5	-1.2	101	0.21
	Odisha	4180	0	79.9	10.7	-0.9	160	0.00
	West Bengal	6074	0	112.7	13.5	-1.0	152	0.00
	Sikkim	101	0	1.6	1.9	-0.2	12	0.00
NER	Arunachal Pradesh	115	1	2.2	2.3	-0.1	13	0.11
	Assam	1479	0	24.0	19.6	0.3	168	0.00
	Manipur	223	2	3.0	3.0	0.0	34	0.13
	Meghalaya	361	0	6.4	3.9	-0.1	41	0.00
	Mizoram	102	1	1.6	1.3	-0.1	60	0.01
	Nagaland	125	2	2.3	1.9	0.2	16	0.01
	Tripura	214	1	3.5	2.8	-0.2	37	0.00

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

	Bhutan	Nepal	Bangladesh
Actual (MU)	9.9	-5.6	-11.9
Day Peak (MW)	547.0	-381.3	-753.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	277.6	-276.5	129.2	-130.5	0.2	0.0
Actual(MU)	272.3	-270.2	128.8	-139.4	0.1	-8.3
O/D/U/D(MU)	-5.3	6.3	-0.4	-8.9	-0.1	-8.3

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL
Central Sector	6966	15525	11352	2460	1052	37355
State Sector	14026	14820	13517	4772	11	47145
Total	20992	30344	24869	7232	1063	84500

G. Sourcewise generation (MU)

	NR	WR	SR	ER	NER	All India
Coal	464	1311	387	468	7	2638
Lignite	24	15	12	0	0	51
Hydro	112	43	82	44	13	293
Nuclear	28	33	60	0	0	120
Gas, Naptha & Diesel	24	67	14	0	27	132
RES (Wind, Solar, Biomass & Others)	68	50	141	5	0	264
Total	719	1519	696	516	48	3498
Share of RES in total generation (%)	9.45	3.27	20.30	0.88	0.25	7.53
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	28.79	8.29	40.74	9.32	27.12	19.37

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.030
Based on State Max Demands	1.063

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: 05-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	301	0.0	7.3	-7.3
3	765 kV	GAYA-VARANASI	2	0	1188	0.0	14.9	-14.9
4	765 kV	SASARAM-FATEHPUR	1	0	421	0.0	4.9	-4.9
5	765 kV	GAYA-BALIA	1	0	578	0.0	8.9	-8.9
6	400 kV	PUSAULI-VARANASI	1	0	224	0.0	4.5	-4.5
7	400 kV	PUSAULI -ALLAHABAD	1	0	153	0.0	2.6	-2.6
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	0	990	0.0	10.9	-10.9
9	400 kV	PATNA-BALIA	4	0	1293	0.0	18.6	-18.6
10	400 kV	BIHARSHARIFF-BALIA	2	0	555	0.0	5.8	-5.8
11	400 kV	MOTIHARI-GORAKHPUR	2	0	383	0.0	6.0	-6.0
12	400 kV	BIHARSHARIFF-VARANASI	2	0	268	0.0	2.0	-2.0
13	220 kV	PUSAULI-SAHUPURI	1	53	58	0.1	0.0	0.1
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	0.4	86.3	-85.9
Import/Export of ER (With WR)								
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	691	615	0.0	1.4	-1.4
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	352	412	0.0	0.3	-0.3
3	765 kV	JHARSUGUDA-DURG	2	46	249	0.0	3.9	-3.9
4	400 kV	JHARSUGUDA-RAIGARH	4	215	217	0.0	0.4	-0.4
5	400 kV	RANCHI-SIPAT	2	140	161	0.0	0.0	0.0
6	220 kV	BUDHIPADAR-RAIGARH	1	8	77	0.0	0.3	-0.3
7	220 kV	BUDHIPADAR-KORBA	2	103	19	0.8	0.0	0.8
					ER-WR	0.8	6.2	-5.4
Import/Export of ER (With SR)								
1	HVDC	JEYPORE-GAZUWAKA B/B	2	0	645	0.0	11.7	-11.7
2	HVDC	TALCHER-KOLAR BIPOLE	2	0	1987	0.0	42.0	-42.0
3	765 kV	ANGUL-SRIKAKULAM	2	0	2611	0.0	44.7	-44.7
4	400 kV	TALCHER-I/C	2	0	633	0.0	8.3	-8.3
5	220 kV	BALIMELA-UPPER-SILERRU	1	1	0	0.0	0.0	0.0
					ER-SR	0.0	98.4	-98.4
Import/Export of ER (With NER)								
1	400 kV	BINAGURI-BONGAIGAON	2	290	71	3.5	0.0	3.5
2	400 kV	ALIPURDUAR-BONGAIGAON	2	443	90	5.3	0.0	5.3
3	220 kV	ALIPURDUAR-SALAKATI	2	65	24	0.6	0.0	0.6
					ER-NER	9.4	0.0	9.4
Import/Export of NER (With NR)								
1	HVDC	BISWANATH CHARIALI-AGRA	2	468	0	9.4	0.0	9.4
					NER-NR	9.4	0.0	9.4
Import/Export of WR (With NR)								
1	HVDC	CHAMPA-KURUKSHETRA	2	0	1502	0.0	46.3	-46.3
2	HVDC	VINDHYACHAL B/B	-	48	0	1.2	0.0	1.1
3	HVDC	MUNDRA-MOHINDERGARH	2	0	1646	0.0	41.1	-41.1
4	765 kV	GWALIOR-AGRA	2	0	2745	0.0	47.9	-47.9
5	765 kV	PHAGI-GWALIOR	2	0	1650	0.0	23.7	-23.7
6	765 kV	JABALPUR-ORAI	2	0	1070	0.0	34.4	-34.4
7	765 kV	GWALIOR-ORAI	1	649	0	11.6	0.0	11.6
8	765 kV	SATNA-ORAI	1	0	1502	0.0	30.2	-30.2
9	765 kV	CHITORGARH-BANASKANTHA	2	41	706	0.0	7.6	-7.6
10	400 kV	ZERDA-KANKROLI	1	63	138	0.0	0.4	-0.4
11	400 kV	ZERDA -BHINMAL	1	0	383	0.0	4.0	-4.0
12	400 kV	VINDHYACHAL -RIHAND	1	976	0	22.6	0.0	22.6
13	400 kV	RAPP-SHUJALPUR	2	40	433	0.0	3.7	-3.7
14	220 kV	BHANPURA-RANPUR	1	0	226	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	107	0	0.3	0.1	0.2
17	220 kV	MALANPUR-AURAIYA	1	71	22	0.9	0.0	0.9
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	36.7	243.9	-207.3
Import/Export of WR (With SR)								
1	HVDC	BHADRAWATI B/B	-	0	1016	0.0	16.6	-16.6
2	HVDC	RAIGARH-PUGALUR	2	0	0	0.0	14.6	-14.6
3	765 kV	SOLAPUR-RAICHUR	2	592	2294	0.0	21.4	-21.4
4	765 kV	WARDHA-NIZAMABAD	2	190	2122	0.0	22.4	-22.4
5	400 kV	KOLHAPUR-KUDGI	2	642	0	5.7	0.0	5.7
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	43	0.8	0.0	0.8
					WR-SR	6.5	75.0	-68.5

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)	145	0	143	3.4
	ER	400kV TALA-BINAGURI 1,2,4 (& 400kV MALBASE - BINAGURI) i.e. BINAGURI RECEIPT (from TALA HEP (6*170MW)	309	204	210	5.0
	ER	220kV CHUKHA-BIRPARA 1&2 (& 220kV MALBASE - BIRPARA) i.e. BIRPARA RECEIPT (from CHUKHA HEP 4*84MW)	90	0	57	1.4
	NER	132KV-GEYLEGPHU - SALAKATI	-4	0	4	0.1
	NER	132kV Motanga-Rangia	6	0	-5	-0.1
NEPAL	NR	132KV-TANAKPUR(NH) - MAHENDRANAGAR(PG)	-51	0	-45	-1.1
	ER	400KV-MUZAFFARPUR - DHALKEBAR DC	-234	-80	-165	-4.0
	ER	132KV-BIHAR - NEPAL	-96	-1	-25	-0.6
BANGLADESH	ER	BHERAMARA HVDC(BANGLADESH)	-653	-319	-416	-10.0
	NER	132KV-SURAJMANI NAGAR - COMILLA(BANGLADESH)-1	50	0	-41	-1.0
	NER	132KV-SURAJMANI NAGAR - COMILLA(BANGLADESH)-2	50	0	-41	-1.0