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: 04th Jan 2021

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 03.01.2021.

महोदय/Dear Sir,

आई०ई०जी०सी०-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 03-जनवरी -2021 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 03rd January 2021, 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-Jan-2021**

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)	45222	49437	35566	17651	2429	150305
Peak Shortage (MW)	675	0	0	74	31	780
Energy Met (MU)	916	1206	863	352	43	3380
Hydro Gen (MU)	100	47	69	30	11	256
Wind Gen (MU)	11	56	62	-	-	129
Solar Gen (MU)*	21.94	25.56	76.87	4.43	0.14	129
Energy Shortage (MU)	11.78	0.00	0.00	0.22	0.44	12.44
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	47422	59190	44813	17866	2591	166786
Time Of Maximum Demand Met (From NLDC SCADA)	10:57	10:37	09:34	18:02	17:55	10:48

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	0.033	0.00	0.00	5.68	5.68	79.13	15.19

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	5809	0	108.6	57.4	-1.0	60	0.49
	Haryana	5480	0	110.0	78.2	0.8	271	0.00
	Rajasthan	13368	0	245.4	90.8	-0.4	258	0.00
	Delhi	4046	0	67.9	56.5	-0.9	389	0.02
	UP	14631	0	264.2	83.1	-2.1	774	0.00
	Uttarakhand	1970	0	36.7	19.5	-0.3	230	0.07
	HP	1729	0	31.1	27.1	-1.6	92	0.00
	J&K(UT) & Ladakh(UT)	2359	450	48.8	46.4	-2.1	153	11.20
	Chandigarh	232	0	3.8	3.9	-0.2	13	0.00
WR	Chhattisgarh	4044	0	86.6	37.8	-0.8	229	0.00
	Gujarat	16371	0	330.9	84.3	3.3	793	0.00
	MP	14790	0	286.9	171.6	-1.5	458	0.00
	Maharashtra	22479	0	448.4	165.5	-2.4	531	0.00
	Goa	494	0	10.5	9.3	0.6	53	0.00
	DD	295	0	6.7	6.6	0.2	19	0.00
	DNH	797	0	18.6	18.6	0.0	34	0.00
	AMNSIL	802	0	17.5	11.2	-0.1	273	0.00
SR	Andhra Pradesh	8505	0	157.6	61.2	-0.4	296	0.00
	Telangana	10745	0	202.1	88.1	-0.1	306	0.00
	Karnataka	11008	0	198.9	83.6	-0.4	493	0.00
	Kerala	3209	0	64.5	52.3	-0.2	274	0.00
	Tamil Nadu	11101	0	233.6	140.0	-2.2	335	0.00
	Puducherry	298	0	6.2	6.6	-0.4	20	0.00
ER	Bihar	4809	0	85.1	83.0	0.0	270	0.00
	DVC	3027	0	64.6	-31.2	0.8	320	0.00
	Jharkhand	1496	0	25.8	23.5	-1.8	120	0.22
	Odisha	3860	0	70.7	4.2	-0.3	335	0.00
	West Bengal	5626	0	103.9	-0.9	2.1	370	0.00
	Sikkim	123	0	2.0	1.7	0.2	40	0.00
NER	Arunachal Pradesh	137	2	2.2	2.3	-0.1	49	0.01
	Assam	1362	15	22.9	17.9	0.2	124	0.40
	Manipur	233	1	3.3	3.4	-0.1	22	0.01
	Meghalaya	377	0	6.6	5.3	-0.3	28	0.00
	Mizoram	110	1	1.7	1.4	-0.1	22	0.01
	Nagaland	136	1	2.3	2.0	0.1	13	0.01
	Tripura	219	0	3.8	2.5	-0.2	53	0.00

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

	Bhutan	Nepal	Bangladesh
Actual (MU)	5.8	-11.3	-16.4
Day Peak (MW)	301.0	-623.4	-936.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	232.9	-241.0	114.2	-106.0	-0.1	0.0
Actual(MU)	217.2	-236.6	118.5	-108.2	-0.4	-9.5
O/D/U/D(MU)	-15.7	4.5	4.3	-2.3	-0.2	-9.5

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL
Central Sector	4420	12823	8702	2310	509	28763
State Sector	11489	15911	12357	5642	11	45409
Total	15909	28733	21059	7952	520	74173

G. Sourcewise generation (MU)

	NR	WR	SR	ER	NER	All India
Coal	491	1263	417	450	6	2627
Lignite	24	8	26	0	0	58
Hydro	100	47	69	30	11	256
Nuclear	23	21	64	0	0	108
Gas, Naptha & Diesel	24	26	13	0	30	93
RES (Wind, Solar, Biomass & Others)	63	82	176	4	0	327
Total	724	1447	765	484	47	3469
Share of RES in total generation (%)	8.73	5.70	23.03	0.92	0.29	9.41
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	25.65	10.41	40.36	7.20	23.55	19.93

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.031
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: 04-Jan-2021

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	251	0.0	6.2	-6.2
3	765 kV	GAYA-VARANASI	2	6	1261	0.0	13.0	-13.0
4	765 kV	SASARAM-FATEHPUR	1	44	481	0.0	4.9	-4.9
5	765 kV	GAYA-BALIA	1	0	575	0.0	7.6	-7.6
6	400 kV	PUSAULI-VARANASI	1	0	191	0.0	3.6	-3.6
7	400 kV	PUSAULI -ALLAHABAD	1	0	171	0.0	2.4	-2.4
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	0	1025	0.0	9.0	-9.0
9	400 kV	PATNA-BALIA	4	0	1226	0.0	14.4	-14.4
10	400 kV	BIHARSHARIFF-BALIA	2	0	534	0.0	5.8	-5.8
11	400 kV	MOTIHARI-GORAKHPUR	2	0	368	0.0	5.7	-5.7
12	400 kV	BIHARSHARIFF-VARANASI	2	97	496	0.0	2.8	-2.8
13	220 kV	PUSAULI-SAHUPURI	1	51	102	0.0	0.2	-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	0.4	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	0.4	75.6	-75.3
Import/Export of ER (With WR)								
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	1459	0	17.3	0.0	17.3
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	757	495	3.5	0.0	3.5
3	765 kV	JHARSUGUDA-DURG	2	118	219	0.0	1.3	-1.3
4	400 kV	JHARSUGUDA-RAIGARH	4	163	526	0.0	4.6	-4.6
5	400 kV	RANCHI-SIPAT	2	275	181	0.8	0.0	0.8
6	220 kV	BUDHIPADAR-RAIGARH	1	0	153	0.0	2.0	-2.0
7	220 kV	BUDHIPADAR-KORBA	2	66	74	0.1	0.0	0.1
					ER-WR	21.7	7.8	13.9
Import/Export of ER (With SR)								
1	HVDC	JEYPORE-GAZUWAKA B/B	2	0	381	0.0	8.8	-8.8
2	HVDC	TALCHER-KOLAR BIPOLE	2	0	1978	0.0	35.6	-35.6
3	765 kV	ANGUL-SRIKAKULAM	2	0	2764	0.0	48.0	-48.0
4	400 kV	TALCHER-I/C	2	660	911	0.0	6.3	-6.3
5	220 kV	BALIMELA-UPPER-SILERRU	1	1	0	0.0	0.0	0.0
					ER-SR	0.0	92.4	-92.4
Import/Export of ER (With NER)								
1	400 kV	BINAGURI-BONGAIGAON	2	279	11	3.4	0.0	3.4
2	400 kV	ALIPURDUAR-BONGAIGAON	2	434	0	5.4	0.0	5.4
3	220 kV	ALIPURDUAR-SALAKATI	2	71	8	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	467	0	9.2	0.0	9.2
					NER-NR	9.2	0.0	9.2
Import/Export of WR (With NR)								
1	HVDC	CHAMPA-KURUKSHETRA	2	0	1002	0.0	32.3	-32.3
2	HVDC	VINDHYACHAL B/B	-	94	0	2.4	0.0	2.4
3	HVDC	MUNDRA-MOHINDERGARH	2	0	1270	0.0	31.5	-31.5
4	765 kV	GWALIOR-AGRA	2	0	2584	0.0	40.2	-40.2
5	765 kV	PHAGI-GWALIOR	2	0	1844	0.0	25.1	-25.1
6	765 kV	JABALPUR-ORAI	2	0	1025	0.0	29.9	-29.9
7	765 kV	GWALIOR-ORAI	1	731	0	12.5	0.0	12.5
8	765 kV	SATNA-ORAI	1	0	1343	0.0	25.6	-25.6
9	765 kV	CHITORGARH-BANASKANTHA	2	93	828	0.0	5.4	-5.4
10	400 kV	ZERDA-KANKROLI	1	66	131	0.0	0.5	-0.5
11	400 kV	ZERDA -BHINMAL	1	72	400	0.0	4.1	-4.1
12	400 kV	VINDHYACHAL -RIHAND	1	974	0	22.6	0.0	22.6
13	400 kV	RAPP-SHUJALPUR	2	188	470	0.6	4.2	-3.6
14	220 kV	BHANPURA-RANPUR	1	39	156	0.1	1.5	-1.3
15	220 kV	BHANPURA-MORAK	1	0	30	0.6	0.5	0.1
16	220 kV	MEHGAON-AURAIYA	1	137	0	0.8	0.0	0.8
17	220 kV	MALANPUR-AURAIYA	1	92	11	1.6	0.0	1.6
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	200.6	-159.5
Import/Export of WR (With SR)								
1	HVDC	BHADRAWATI B/B	-	0	1009	0.0	14.3	-14.3
2	HVDC	RAIGARH-PUGALUR	2	955	1499	0.0	10.8	-10.8
3	765 kV	SOLAPUR-RAICHUR	2	456	2002	0.0	17.3	-17.3
4	765 kV	WARDHA-NIZAMABAD	2	0	2549	0.0	33.4	-33.4
5	400 kV	KOLHAPUR-KUDGI	2	1396	0	21.0	0.0	21.0
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	33	0.6	0.0	0.6
					WR-SR	21.7	75.7	-54.1

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)	124	0	115	2.8
	ER	400kV TALA-BINAGURI 1,2,4 (& 400kV MALBASE - BINAGURI) i.e. BINAGURI RECEIPT (from TALA HEP (6*170MW)	128	121	128	3.2
	ER	220kV CHUKHA-BIRPARA 1&2 (& 220kV MALBASE - BIRPARA) i.e. BIRPARA RECEIPT (from CHUKHA HEP 4*84MW)	14	0	-8	-0.2
	NER	132KV-GEYLEGPHU - SALAKATI	27	9	15	0.4
	NER	132kV Motanga-Rangia	7	0	3	0.1
NEPAL	NR	132KV-TANAKPUR(NH) - MAHENDRANAGAR(PG)	-61	0	-55	-1.3
	ER	400KV-MUZAFFARPUR - DHALKEBAR DC	-285	-158	-255	-6.1
	ER	132KV-BIHAR - NEPAL	-277	-16	-160	-3.8
	ER	BHERAMARA HVDC(BANGLADESH)	-832	-446	-608	-14.6
BANGLADESH	NER	132KV-SURAJMANI NAGAR - COMILLA(BANGLADESH)-1	52	0	-38	-0.9
	NER	132KV-SURAJMANI NAGAR - COMILLA(BANGLADESH)-2	52	0	-38	-0.9