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: 05th 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 04.01.2021.

महोदय/Dear Sir,

आई०ई०जी०सी०-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 04-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 04rd 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:** **05-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)	46645	50551	39652	18450	2522	157820
Peak Shortage (MW)	600	0	0	0	37	637
Energy Met (MU)	923	1214	908	356	44	3445
Hydro Gen (MU)	105	48	83	32	11	280
Wind Gen (MU)	19	57	51	-	-	127
Solar Gen (MU)*	16.70	21.28	84.43	4.25	0.15	127
Energy Shortage (MU)	12.96	0.00	0.00	0.00	0.54	13.50
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	49782	60656	46416	18615	2572	173729
Time Of Maximum Demand Met (From NLDC SCADA)	10:19	10:33	12:35	18:00	17:21	10:31

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	0.64	5.25	5.89	80.06	14.05

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	6032	0	112.6	56.3	-1.4	83	0.00
	Haryana	5825	75	112.3	78.6	-1.7	173	0.03
	Rajasthan	12843	0	227.2	65.6	-0.6	580	0.00
	Delhi	4413	0	73.2	61.1	0.4	271	0.00
	UP	15567	0	276.8	92.8	-0.9	373	0.11
	Uttarakhand	2149	0	39.8	21.5	1.0	264	0.00
	HP	1823	76	32.6	27.9	-0.6	114	0.42
	J&K(UT) & Ladakh(UT)	2645	600	44.2	38.3	0.0	313	12.40
	Chandigarh	255	0	4.0	4.3	-0.3	13	0.00
WR	Chhattisgarh	4105	0	86.6	37.5	0.0	230	0.00
	Gujarat	16935	0	339.5	89.5	3.3	970	0.00
	MP	14989	0	281.4	163.8	-3.0	770	0.00
	Maharashtra	23028	0	452.6	169.9	-4.1	736	0.00
	Goa	517	0	10.4	10.4	-0.3	37	0.00
	DD	325	0	7.1	6.9	0.2	27	0.00
	DNH	829	0	19.0	18.7	0.3	56	0.00
	AMNSIL	793	0	17.8	10.2	0.3	290	0.00
SR	Andhra Pradesh	8774	0	163.6	63.0	-0.3	580	0.00
	Telangana	11249	0	207.1	92.3	-0.1	800	0.00
	Karnataka	11626	0	208.1	83.7	0.1	698	0.00
	Kerala	3528	0	70.9	53.2	-0.1	230	0.00
	Tamil Nadu	12821	0	251.7	152.4	1.1	860	0.00
	Puducherry	355	0	6.9	7.1	-0.2	30	0.00
ER	Bihar	4806	0	84.4	80.7	-1.5	348	0.00
	DVC	2983	0	63.5	-32.8	0.4	370	0.00
	Jharkhand	1445	0	25.6	22.5	-0.9	199	0.00
	Odisha	3865	0	70.6	7.7	-0.4	394	0.00
	West Bengal	6298	0	109.6	1.8	0.6	493	0.00
	Sikkim	144	0	2.3	1.9	0.4	65	0.00
NER	Arunachal Pradesh	133	2	2.3	2.2	-0.1	51	0.01
	Assam	1418	14	23.7	18.7	0.3	119	0.50
	Manipur	230	2	3.2	3.5	-0.3	29	0.01
	Meghalaya	380	5	7.0	5.4	-0.1	34	0.00
	Mizoram	114	1	1.7	1.5	-0.1	20	0.01
	Nagaland	130	1	2.2	2.0	0.0	22	0.01
	Tripura	218	1	3.5	3.3	-0.6	35	0.00

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

	Bhutan	Nepal	Bangladesh
Actual (MU)	6.1	-11.7	-16.4
Day Peak (MW)	353.0	-623.8	-944.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	208.7	-226.9	125.1	-108.0	1.1	0.0
Actual(MU)	193.8	-220.3	129.9	-105.0	0.3	-1.2
O/D/U/D(MU)	-14.9	6.7	4.9	3.0	-0.8	-1.2

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL
Central Sector	4790	11953	8702	2810	699	28953
State Sector	12134	16626	12037	5392	11	46199
Total	16924	28578	20739	8202	710	75153

G. Sourcewise generation (MU)

	NR	WR	SR	ER	NER	All India
Coal	510	1260	437	454	7	2667
Lignite	24	7	31	0	0	62
Hydro	105	48	83	32	11	280
Nuclear	23	21	64	0	0	109
Gas, Naptha & Diesel	24	38	12	0	30	104
RES (Wind, Solar, Biomass & Others)	65	79	174	4	0	323
Total	751	1453	802	490	48	3544

Share of RES in total generation (%)	8.63	5.46	21.71	0.86	0.31	9.10
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	25.73	10.22	40.12	7.45	23.46	20.07

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.025
Based on State Max Demands	1.057

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-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	5.9	-5.9
3	765 kV	GAYA-VARANASI	2	0	1170	0.0	13.4	-13.4
4	765 kV	SASARAM-FATEHPUR	1	18	493	0.0	5.2	-5.2
5	765 kV	GAYA-BALIA	1	0	541	0.0	8.1	-8.1
6	400 kV	PUSAULI-VARANASI	1	0	199	0.0	3.8	-3.8
7	400 kV	PUSAULI -ALLAHABAD	1	0	145	0.0	2.1	-2.1
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	0	920	0.0	8.8	-8.8
9	400 kV	PATNA-BALIA	4	0	1124	0.0	12.8	-12.8
10	400 kV	BIHARSHARIFF-BALIA	2	0	488	0.0	5.8	-5.8
11	400 kV	MOTIHARI-GORAKHPUR	2	0	359	0.0	5.7	-5.7
12	400 kV	BIHARSHARIFF-VARANASI	2	85	450	0.0	2.5	-2.5
13	220 kV	PUSAULI-SAHUPURI	1	70	94	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	0.3	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	0.3	74.2	-73.9
Import/Export of ER (With WR)								
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	1431	0	22.9	0.0	22.9
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	679	522	3.0	0.0	3.0
3	765 kV	JHARSUGUDA-DURG	2	164	165	0.0	0.5	-0.5
4	400 kV	JHARSUGUDA-RAIGARH	4	170	400	0.0	3.1	-3.1
5	400 kV	RANCHI-SIPAT	2	257	186	1.2	0.0	1.2
6	220 kV	BUDHIPADAR-RAIGARH	1	7	141	0.0	1.7	-1.7
7	220 kV	BUDHIPADAR-KORBA	2	68	32	0.4	0.0	0.4
					ER-WR	27.5	5.2	22.3
Import/Export of ER (With SR)								
1	HVDC	JEYPORE-GAZUWAKA B/B	2	0	484	0.0	9.4	-9.4
2	HVDC	TALCHER-KOLAR BIPOLE	2	0	1980	0.0	38.7	-38.7
3	765 kV	ANGUL-SRIKAKULAM	2	0	2828	0.0	50.5	-50.5
4	400 kV	TALCHER-I/C	2	89	890	0.0	8.4	-8.4
5	220 kV	BALIMELA-UPPER-SILERRU	1	1	0	0.0	0.0	0.0
					ER-SR	0.0	98.7	-98.7
Import/Export of ER (With NER)								
1	400 kV	BINAGURI-BONGAIGAON	2	265	42	3.3	0.0	3.3
2	400 kV	ALIPURDUAR-BONGAIGAON	2	430	23	4.8	0.0	4.8
3	220 kV	ALIPURDUAR-SALAKATI	2	75	9	0.7	0.0	0.7
					ER-NER	8.8	0.0	8.8
Import/Export of NER (With NR)								
1	HVDC	BISWANATH CHARIALI-AGRA	2	474	0	9.0	0.0	9.0
					NER-NR	9.0	0.0	9.0
Import/Export of WR (With NR)								
1	HVDC	CHAMPA-KURUKSHETRA	2	0	1509	0.0	34.4	-34.4
2	HVDC	VINDHYACHAL B/B	-	237	0	2.7	0.1	2.6
3	HVDC	MUNDRA-MOHINDERGARH	2	0	1536	0.0	28.8	-28.8
4	765 kV	GWALIOR-AGRA	2	0	2431	0.0	36.2	-36.2
5	765 kV	PHAGI-GWALIOR	2	58	1458	0.0	18.8	-18.8
6	765 kV	JABALPUR-ORAI	2	0	990	0.0	28.0	-28.0
7	765 kV	GWALIOR-ORAI	1	647	0	10.0	0.0	10.0
8	765 kV	SATNA-ORAI	1	0	1318	0.0	24.2	-24.2
9	765 kV	CHITORGARH-BANASKANTHA	2	454	625	0.0	1.6	-1.6
10	400 kV	ZERDA-KANKROLI	1	151	86	1.2	0.0	1.2
11	400 kV	ZERDA -BHINMAL	1	122	280	0.0	1.4	-1.4
12	400 kV	VINDHYACHAL -RIHAND	1	973	0	22.7	0.0	22.7
13	400 kV	RAPP-SHUJALPUR	2	267	401	1.2	2.6	-1.5
14	220 kV	BHANPURA-RANPUR	1	92	148	0.3	1.5	-1.2
15	220 kV	BHANPURA-MORAK	1	0	30	0.4	0.6	-0.2
16	220 kV	MEHGAON-AURAIYA	1	149	0	0.8	0.0	0.8
17	220 kV	MALANPUR-AURAIYA	1	100	10	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	40.9	178.2	-137.3
Import/Export of WR (With SR)								
1	HVDC	BHADRAWATI B/B	-	199	1006	0.6	11.3	-10.7
2	HVDC	RAIGARH-PUGALUR	2	722	1490	2.4	11.0	-8.7
3	765 kV	SOLAPUR-RAICHUR	2	29	2061	0.0	24.5	-24.5
4	765 kV	WARDHA-NIZAMABAD	2	0	2771	0.0	39.6	-39.6
5	400 kV	KOLHAPUR-KUDGI	2	1406	0	21.3	0.0	21.3
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	36	0.7	0.0	0.7
					WR-SR	25.0	86.5	-61.5

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)	201	0	120	2.9
	ER	400kV TALA-BINAGURI 1,2,4 (& 400kV MALBASE - BINAGURI) i.e. BINAGURI RECEIPT (from TALA HEP (6*170MW)	157	133	144	3.5
	ER	220kV CHUKHA-BIRPARA 1&2 (& 220kV MALBASE - BIRPARA) i.e. BIRPARA RECEIPT (from CHUKHA HEP 4*84MW)	12	9	-10	-0.2
	NER	132KV-GEYLEGPHU - SALAKATI	-24	-7	13	0.3
	NER	132kV Motanga-Rangia	7	0	0	0.0
NEPAL	NR	132KV-TANAKPUR(NH) - MAHENDRANAGAR(PG)	-62	0	-55	-1.3
	ER	400KV-MUZAFFARPUR - DHALKEBAR DC	-266	-184	-246	-5.9
	ER	132KV-BIHAR - NEPAL	-296	-20	-189	-4.5
BANGLADESH	ER	BHERAMARA HVDC(BANGLADESH)	-836	-426	-601	-14.4
	NER	132KV-SURAJMANI NAGAR - COMILLA(BANGLADESH)-1	54	0	-42	-1.0
	NER	132KV-SURAJMANI NAGAR - COMILLA(BANGLADESH)-2	54	0	-42	-1.0