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: 30th 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 29.01.2021.

महोदय/Dear Sir,

आई०ई०जी०सी०-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 29-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 29th 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: 30-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)	52842	52790	44055	19398	2558	171643
Peak Shortage (MW)	1000	0	0	0	33	1033
Energy Met (MU)	1077	1247	1046	401	44	3815
Hydro Gen (MU)	99	44	78	34	11	266
Wind Gen (MU)	4	68	41	-	-	113
Solar Gen (MU)*	39.89	36.37	96.54	4.23	0.14	177
Energy Shortage (MU)	13.22	0.00	0.00	0.00	0.44	13.66
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	56609	60158	53790	19464	2628	188327
Time Of Maximum Demand Met (From NLDC SCADA)	10:23	11:21	10:57	18:18	17:52	10:56

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	0.025	0.00	0.00	2.23	2.23	78.62	19.14

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	6922	0	134.2	61.1	-0.7	79	0.30
	Haryana	7204	0	143.3	86.8	0.5	108	0.00
	Rajasthan	14125	0	269.2	94.4	2.1	446	0.00
	Delhi	4673	0	74.2	66.9	-1.0	310	0.00
	UP	18383	0	319.0	107.3	-0.7	542	0.23
	Uttarakhand	2328	0	42.9	27.3	1.7	327	0.29
	HP	1901	0	33.9	28.3	0.6	220	0.00
	J&K(UT) & Ladakh(UT)	2747	600	56.0	50.3	0.5	332	12.40
	Chandigarh	269	0	4.1	4.1	0.0	25	0.00
WR	Chhattisgarh	3742	0	81.5	40.9	-1.8	413	0.00
	Gujarat	16620	0	344.7	90.7	-0.6	611	0.00
	MP	14819	0	286.4	168.9	-2.1	740	0.00
	Maharashtra	23549	0	480.6	143.6	-1.8	641	0.00
	Goa	500	0	10.0	9.8	-0.2	32	0.00
	DD	345	0	7.7	7.4	0.2	22	0.00
	DNH	853	0	19.7	19.5	0.2	43	0.00
	AMNSIL	762	0	16.3	6.0	0.1	242	0.00
SR	Andhra Pradesh	9424	0	185.9	83.4	1.0	444	0.00
	Telangana	13080	0	251.6	125.1	0.2	480	0.00
	Karnataka	12795	0	237.0	86.1	-0.4	953	0.00
	Kerala	3663	0	71.4	47.3	0.1	259	0.00
	Tamil Nadu	14163	0	292.6	177.0	1.3	685	0.00
	Puducherry	370	0	7.6	7.9	-0.3	22	0.00
ER	Bihar	4938	0	94.3	80.8	1.7	408	0.00
	DVC	3168	0	69.4	-51.8	0.3	285	0.00
	Jharkhand	1462	0	25.2	18.5	-2.0	232	0.00
	Odisha	3999	0	76.2	-1.1	0.3	357	0.00
	West Bengal	6988	0	133.9	13.3	0.4	388	0.00
	Sikkim	124	0	1.8	1.9	-0.1	32	0.00
NER	Arunachal Pradesh	130	2	2.6	2.6	-0.1	17	0.01
	Assam	1450	11	24.2	19.3	-0.1	106	0.40
	Manipur	230	4	3.1	3.3	-0.2	24	0.01
	Meghalaya	382	3	6.8	4.6	0.2	59	0.00
	Mizoram	119	2	1.6	1.6	-0.3	24	0.01
	Nagaland	127	1	2.0	1.9	0.0	17	0.01
	Tripura	226	1	4.0	2.3	-0.2	20	0.00

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

	Bhutan	Nepal	Bangladesh
Actual (MU)	3.5	-14.4	-15.6
Day Peak (MW)	167.0	-691.4	-934.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	273.6	-290.4	146.9	-130.5	0.5	0.0
Actual(MU)	275.4	-304.8	146.6	-125.1	0.6	-7.3
O/D/U/D(MU)	1.8	-14.4	-0.3	5.4	0.1	-7.3

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL	% Share
Central Sector	5774	13003	6242	2855	569	28442	43
State Sector	10120	14120	8947	4152	11	37350	57
Total	15894	27123	15189	7007	580	65792	100

G. Sourcewise generation (MU)

	NR	WR	SR	ER	NER	All India	% Share
Coal	597	1362	566	512	7	3044	78
Lignite	24	11	34	0	0	69	2
Hydro	99	44	78	34	11	266	7
Nuclear	18	18	43	0	0	79	2
Gas, Naptha & Diesel	18	33	13	0	30	94	2
RES (Wind, Solar, Biomass & Others)	71	106	175	4	0	356	9
Total	827	1574	909	550	48	3908	100

Share of RES in total generation (%)	8.54	6.73	19.26	0.76	0.29	9.11
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	22.69	10.67	32.55	6.96	22.42	17.93

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.023
Based on State Max Demands	1.044

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: 30-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	249	0.0	5.8	-5.8
3	765 kV	GAYA-VARANASI	2	0	926	0.0	12.0	-12.0
4	765 kV	SASARAM-FATEHPUR	1	14	317	0.0	3.5	-3.5
5	765 kV	GAYA-BALIA	1	0	564	0.0	8.5	-8.5
6	400 kV	PUSAULI-VARANASI	1	0	251	0.0	4.5	-4.5
7	400 kV	PUSAULI -ALLAHABAD	1	0	82	0.0	1.2	-1.2
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	0	767	0.0	9.2	-9.2
9	400 kV	PATNA-BALIA	4	0	986	0.0	15.3	-15.3
10	400 kV	BIHARSHARIFF-BALIA	2	0	409	0.0	5.6	-5.6
11	400 kV	MOTIHARI-GORAKHPUR	2	0	369	0.0	6.1	-6.1
12	400 kV	BIHARSHARIFF-VARANASI	2	80	208	0.0	1.0	-1.0
13	220 kV	PUSAULI-SAHUPURI	1	0	103	0.0	1.5	-1.5
14	132 kV	SONE NAGAR-RIHAND	1	0	0	0.0	0.0	0.0
15	132 kV	GARWAH-RIHAND	1	20	0	0.5	0.0	0.5
16	132 kV	KARMANASA-SAHUPURI	1	0	0	0.0	0.0	0.0
17	132 kV	KARMANASA-CHANDAULI	1	0	49	0.0	0.0	0.0
					ER-NR	0.5	74.2	-73.6
Import/Export of ER (With WR)								
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	808	291	7.5	0.0	7.5
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	990	278	6.3	0.0	6.3
3	765 kV	JHARSUGUDA-DURG	2	108	275	0.0	2.8	-2.8
4	400 kV	JHARSUGUDA-RAIGARH	4	311	258	0.8	0.0	0.8
5	400 kV	RANCHI-SIPAT	2	348	117	2.0	0.0	2.0
6	220 kV	BUDHIPADAR-RAIGARH	1	0	1	0.0	0.0	0.0
7	220 kV	BUDHIPADAR-KORBA	2	105	0	1.5	0.0	1.5
					ER-WR	18.0	2.8	15.2
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	2470	0.0	45.3	-45.3
3	765 kV	ANGUL-SRIKAKULAM	2	0	2923	0.0	53.7	-53.7
4	400 kV	TALCHER-I/C	2	0	1226	0.0	13.4	-13.4
5	220 kV	BALIMELA-UPPER-SILERRU	1	1	0	0.0	0.0	0.0
					ER-SR	0.0	111.4	-111.4
Import/Export of ER (With NER)								
1	400 kV	BINAGURI-BONGAIGAON	2	222	102	2.5	0.0	2.5
2	400 kV	ALIPURDUAR-BONGAIGAON	2	349	71	3.2	0.0	3.2
3	220 kV	ALIPURDUAR-SALAKATI	2	61	31	0.5	0.0	0.5
					ER-NER	6.1	0.0	6.1
Import/Export of NER (With NR)								
1	HVDC	BISWANATH CHARIALI-AGRA	2	482	0	7.6	0.0	7.6
					NER-NR	7.6	0.0	7.6
Import/Export of WR (With NR)								
1	HVDC	CHAMPA-KURUKSHETRA	2	0	2000	0.0	55.6	-55.6
2	HVDC	VINDHYACHAL B/B	-	241	0	6.0	0.0	6.0
3	HVDC	MUNDRA-MOHINDERGARH	2	0	1925	0.0	42.6	-42.6
4	765 kV	GWALIOR-AGRA	2	0	3012	0.0	46.8	-46.8
5	765 kV	PHAGI-GWALIOR	2	0	1435	0.0	23.9	-23.9
6	765 kV	JABALPUR-ORAI	2	0	1199	0.0	37.0	-37.0
7	765 kV	GWALIOR-ORAI	1	712	0	12.6	0.0	12.6
8	765 kV	SATNA-ORAI	1	0	1489	0.0	28.5	-28.5
9	765 kV	CHITORGARH-BANASKANTHA	2	528	822	1.5	7.4	-5.9
10	400 kV	ZERDA-KANKROLI	1	124	141	0.0	0.2	-0.2
11	400 kV	ZERDA -BHINMAL	1	9	403	0.0	4.0	-4.0
12	400 kV	VINDHYACHAL -RIHAND	1	491	0	11.2	0.0	11.2
13	400 kV	RAPP-SHUJALPUR	2	0	667	0.0	6.4	-6.4
14	220 kV	BHANPURA-RANPUR	1	0	162	0.0	0.0	0.0
15	220 kV	BHANPURA-MORAK	1	0	30	0.0	0.0	0.0
16	220 kV	MEHGAON-AURAIYA	1	122	0	2.1	1.5	0.6
17	220 kV	MALANPUR-AURAIYA	1	71	20	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	0.6	-0.6
					WR-NR	35.0	254.5	-219.5
Import/Export of WR (With SR)								
1	HVDC	BHADRAWATI B/B	-	794	1012	0.0	9.7	-9.7
2	HVDC	RAIGARH-PUGALUR	2	674	1490	0.0	6.8	-6.8
3	765 kV	SOLAPUR-RAICHUR	2	127	2092	0.0	23.5	-23.5
4	765 kV	WARDHA-NIZAMABAD	2	0	3152	0.0	52.1	-52.1
5	400 kV	KOLHAPUR-KUDGI	2	1438	0	21.2	0.0	21.2
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	48	0.9	0.0	0.9
					WR-SR	22.2	92.2	-70.0

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)	110	0	102	2.5
	ER	400kV TALA-BINAGURI 1,2,4 (& 400kV MALBASE - BINAGURI) i.e. BINAGURI RECEIPT (from TALA HEP (6*170MW)	96	0	83	2.0
	ER	220kV CHUKHA-BIRPARA 1&2 (& 220kV MALBASE - BIRPARA) i.e. BIRPARA RECEIPT (from CHUKHA HEP 4*84MW)	17	0	-41	-1.0
	NER	132KV-GEYLEGPHU - SALAKATI	-38	-18	25	0.6
	NER	132kV Motanga-Rangia	-18	-5	11	0.3
NEPAL	NR	132KV-TANAKPUR(NH) - MAHENDRANAGAR(PG)	-82	0	-73	-1.8
	ER	400KV-MUZAFFARPUR - DHALKEBAR DC	-289	-169	-271	-6.5
	ER	132KV-BIHAR - NEPAL	-320	-145	-256	-6.1
BANGLADESH	ER	BHERAMARA HVDC(BANGLADESH)	-822	-486	-578	-13.9
	NER	132KV-SURAJMANI NAGAR - COMILLA(BANGLADESH)-1	56	0	-35	-0.9
	NER	132KV-SURAJMANI NAGAR - COMILLA(BANGLADESH)-2	56	0	-35	-0.9