



National Load Despatch Centre
राष्ट्रीय भार प्रेषण केंद्र
POWER SYSTEM OPERATION CORPORATION LIMITED
पावर 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: 31thJan 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., डोंगतेह, 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 30.01.2021.

महोदय/Dear Sir,

आईईजीसी-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 30-जनवरी -2021 की अखिल भारतीय प्रणाली की दैनिक ग्रिड निष्पादन रिपोर्ट रांभांप्रेके की वेबसाइट पर उपलब्ध 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 30thJanuary 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:

31-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)	52180	52400	44644	19255	2497	170976
Peak Shortage (MW)	1225	293	0	209	36	1763
Energy Met (MU)	1078	1249	1049	394	43	3813
Hydro Gen (MU)	98	41	80	35	11	265
Wind Gen (MU)	3	48	34	-	-	85
Solar Gen (MU)*	42.34	36.46	97.83	4.62	0.17	181
Energy Shortage (MU)	13.75	3.00	0.00	0.63	0.64	18.02
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	56910	61580	52647	19488	2516	189644
Time Of Maximum Demand Met (From NLDC SCADA)	10:28	10:41	09:49	18:14	18:02	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	0.038	0.00	0.61	3.88	4.49	73.87	21.64

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	6860	0	140.6	52.7	-0.7	113	0.65
	Haryana	7154	0	142.7	85.3	1.1	238	0.00
	Rajasthan	14012	0	268.4	94.1	2.8	468	0.48
	Delhi	4344	0	71.6	59.7	0.0	254	0.00
	UP	18995	0	318.9	102.0	0.0	516	0.00
	Uttarakhand	2341	0	42.8	27.0	1.3	202	0.22
	HP	1888	0	33.3	28.1	0.2	208	0.00
	J&K(UT) & Ladakh(UT)	2691	600	55.5	49.5	1.0	207	12.40
	Chandigarh	242	0	3.9	3.8	0.1	19	0.00
WR	Chhattisgarh	3923	0	84.2	48.7	0.0	418	3.00
	Gujarat	16504	0	346.5	98.7	1.8	605	0.00
	MP	14953	0	288.7	170.3	0.2	440	0.00
	Maharashtra	23577	0	475.4	137.2	-3.4	496	0.00
	Goa	495	0	10.2	9.9	-0.1	57	0.00
	DD	336	0	7.6	7.3	0.3	25	0.00
	DNH	844	0	19.6	19.4	0.2	41	0.00
	AMNSIL	778	0	16.6	6.2	0.2	289	0.00
	SR	Andhra Pradesh	9442	0	188.1	87.3	0.7	386
Telangana		13252	0	251.9	126.5	0.0	1062	0.00
Karnataka		12474	0	235.7	86.7	-0.3	513	0.00
Kerala		3649	0	72.7	46.0	0.4	235	0.00
Tamil Nadu		13963	0	292.9	173.7	-0.7	425	0.00
Puducherry		372	0	7.6	7.8	-0.2	19	0.00
ER	Bihar	5066	0	92.6	81.6	0.2	385	0.00
	DVC	3123	0	68.6	-51.4	0.2	362	0.00
	Jharkhand	1427	0	26.1	18.0	-0.6	123	0.63
	Odisha	3971	0	75.2	-2.4	-0.5	408	0.00
	West Bengal	6808	0	130.1	15.9	0.0	385	0.00
	Sikkim	130	0	1.8	1.9	-0.1	20	0.00
NER	Arunachal Pradesh	128	2	2.3	2.5	-0.4	16	0.01
	Assam	1440	13	24.0	19.0	0.0	80	0.60
	Manipur	223	3	3.0	3.2	-0.2	22	0.01
	Meghalaya	377	0	6.4	4.6	-0.3	45	0.00
	Mizoram	117	4	1.7	1.6	-0.3	21	0.01
	Nagaland	125	2	2.0	2.0	-0.1	20	0.01
	Tripura	221	3	3.6	2.5	-0.3	29	0.00

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

	Bhutan	Nepal	Bangladesh
Actual (MU)	4.4	-13.6	-19.0
Day Peak (MW)	299.0	-660.7	-1026.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	250.9	-273.4	146.8	-124.6	0.2	0.0
Actual(MU)	249.8	-281.6	147.0	-122.9	-1.9	-9.5
OD/UD(MU)	-1.1	-8.2	0.2	1.7	-2.1	-9.5

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL	% Share
Central Sector	5874	14163	6442	2355	569	29402	44
State Sector	9160	14420	8737	4362	11	36690	56
Total	15034	28583	15179	6717	580	66092	100

G. Sourcewise generation (MU)

	NR	WR	SR	ER	NER	All India	% Share
Coal	620	1353	564	509	8	3053	78
Lignite	24	9	36	0	0	68	2
Hydro	98	41	80	35	11	265	7
Nuclear	18	16	43	0	0	77	2
Gas, Naptha & Diesel	22	32	13	0	30	97	2
RES (Wind, Solar, Biomass & Others)	73	86	170	5	0	333	9
Total	854	1537	905	548	49	3894	100
Share of RES in total generation (%)	8.52	5.56	18.77	0.84	0.35	8.55	
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	22.10	9.29	32.34	7.23	22.71	17.34	

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.019
Based on State Max Demands	1.035

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: 31-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	0	819	0.0	11.1	-11.1
4	765 kV	SASARAM-FATEHPUR	1	0	277	0.0	3.7	-3.7
5	765 kV	GAYA-BALIA	1	0	630	0.0	8.7	-8.7
6	400 kV	PUSAULI-VARANASI	1	0	233	0.0	4.9	-4.9
7	400 kV	PUSAULI-ALLAHABAD	1	0	96	0.0	1.5	-1.5
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	0	790	0.0	10.1	-10.1
9	400 kV	PATNA-BALIA	4	0	1194	0.0	16.8	-16.8
10	400 kV	BIHARSHARIFF-BALIA	2	0	539	0.0	6.3	-6.3
11	400 kV	MOTIHARI-GORAKHPUR	2	0	337	0.0	6.4	-6.4
12	400 kV	BIHARSHARIFF-VARANASI	2	164	191	0.0	0.5	-0.5
13	220 kV	PUSAULI-SAHUPURI	1	0	101	0.0	1.6	-1.6
14	132 kV	SONE NAGAR-RIHAND	2	0	0	0.0	0.0	0.0
15	132 kV	GARWAH-RIHAND	1	30	0	0.7	0.0	0.7
16	132 kV	KARMANASA-SAHUPURI	1	0	0	0.0	0.0	0.0
17	132 kV	KARMANASA-CHANDAUJI	1	0	0	0.0	0.0	0.0
ER-NR						0.7	77.8	-77.1
Import/Export of ER (With WR)								
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	842	0	9.9	0.0	9.9
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	714	364	5.1	0.0	5.1
3	765 kV	JHARSUGUDA-DURG	2	78	255	0.0	2.7	-2.7
4	400 kV	JHARSUGUDA-RAIGARH	4	115	515	0.0	2.6	-2.6
5	400 kV	RANCHI-SIPAT	2	193	175	0.7	0.0	0.7
6	220 kV	BUDHIPADAR-RAIGARH	1	0	1	0.0	0.0	0.0
7	220 kV	BUDHIPADAR-KORBA	2	71	47	0.8	0.0	0.8
ER-WR						16.5	5.3	11.2
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	43.7	-43.7
3	765 kV	ANGUL-SRIKAKULAM	2	0	3028	0.0	52.3	-52.3
4	400 kV	TALCHER-J/C	2	0	1159	0.0	10.2	-10.2
5	220 kV	BALIMELA-UPPER-SILERRU	1	1	0	0.0	0.0	0.0
ER-SR						0.0	108.4	-108.4
Import/Export of ER (With NER)								
1	400 kV	BINAGURI-BONGAIGAON	2	254	0	3.3	0.0	3.3
2	400 kV	ALIPURDUAR-BONGAIGAON	2	465	0	6.5	0.0	6.5
3	220 kV	ALIPURDUAR-SALAKATI	2	65	11	1.0	0.0	1.0
ER-NER						10.8	0.0	10.8
Import/Export of NER (With NR)								
1	HVDC	BISWANATH CHARIALI-AGRA	2	488	0	11.5	0.0	11.5
NER-NR						11.5	0.0	11.5
Import/Export of WR (With NR)								
1	HVDC	CHAMPA-KURUKSHETRA	2	0	1503	0.0	40.0	-40.0
2	HVDC	VINDHYACHAL B/B	-	241	251	1.7	0.0	1.7
3	HVDC	MUNDRA-MOHINDERGARH	2	0	1924	0.0	42.9	-42.9
4	765 kV	GWALIOR-AGRA	2	0	2915	0.0	43.2	-43.2
5	765 kV	PHAGI-GWALIOR	2	0	1484	0.0	23.3	-23.3
6	765 kV	JABALPUR-ORAI	2	0	1181	0.0	35.2	-35.2
7	765 kV	GWALIOR-ORAI	1	680	0	12.7	0.0	12.7
8	765 kV	SATNA-ORAI	1	0	1454	0.0	27.4	-27.4
9	765 kV	CHITORGARH-BANASKANTHA	2	648	672	2.4	3.8	-1.5
10	400 kV	ZERDA-KANKROLI	1	143	113	0.4	0.0	0.4
11	400 kV	ZERDA-BHINMAL	1	31	368	0.0	3.7	-3.7
12	400 kV	VINDHYACHAL-RIHAND	1	495	0	11.2	0.0	11.2
13	400 kV	RAPP-SHULPUR	2	3	576	0.0	5.1	-5.1
14	220 kV	BHANPURA-RANPUR	1	0	160	0.0	0.0	0.0
15	220 kV	BHANPURA-MORAK	1	0	30	0.0	0.0	0.0
16	220 kV	MERGAON-AURAIYA	1	129	0	1.7	1.8	-0.1
17	220 kV	MALANPUR-AURAIYA	1	77	23	1.4	0.0	1.4
18	132 kV	GWALIOR-SAWAI MADHOPUR	1	0	0	0.0	0.0	0.0
19	132 kV	RAIGHAT-LALITPUR	2	0	0	0.0	0.8	-0.8
WR-NR						31.5	227.1	-195.6
Import/Export of WR (With SR)								
1	HVDC	BHADRAWATI B/B	-	496	1009	0.0	9.8	-9.8
2	HVDC	RAIGARH-PUGALUR	2	483	1499	0.0	9.5	-9.5
3	765 kV	SOLAPUR-RAICHUR	2	433	2273	0.0	24.0	-24.0
4	765 kV	WARDHA-NIZAMABAD	2	0	3282	0.0	50.9	-50.9
5	400 kV	KOLHAPUR-KUDGI	2	1480	0	19.9	0.0	19.9
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						20.7	94.2	-73.5

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 MANGDECHHU HEP 4*180MW)	108	0	103	2.5
	ER	400kV TALA-BINAGURI 1,2,4 (& 400kV MALBASE - BINAGURI) i.e. BINAGURI RECEIPT (from TALA HEP (6*170MW)	112	0	90	2.2
	ER	230kV CHUKHA-BIRPARA 1&2 (& 230kV MALBASE - BIRPARA) i.e. BIRPARA RECEIPT (from CHUKHA HEP 4*84MW)	21	7	-9	-0.2
	NER	132KV-GEYLEGPHU - SALAKATI	38	18	25	0.6
	NER	132kV Motanga-Rangh	19	2	13	0.3
NEPAL	NR	132KV-TANAKPUR(NH) - MAHENDRANAGAR(PG)	-81	0	-72	-1.7
	ER	400KV-MUZAFFARPUR - DHALKEBAR DC	-275	-106	-269	-6.5
	ER	132KV-BIHAR - NEPAL	-305	-109	-225	-5.4
BANGLADESH	ER	BHERAMARA HVDC (BANGLADESH)	-910	-407	-705	-16.9
	NER	132KV-SURAJMANI NAGAR - COMILLA (BANGLADESH)-1	58	0	-44	-1.1
	NER	132KV-SURAJMANI NAGAR - COMILLA (BANGLADESH)-2	58	0	-44	-1.1