



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: 03rd 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., 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 02.12.2020.

महोदय/Dear Sir,

आईईजीसी-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 02-दिसम्बर -2020 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 02nd 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: 03-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)	46523	50723	38228	16925	2437	154836
Peak Shortage (MW)	581	0	0	0	7	588
Energy Met (MU)	948	1229	835	343	43	3398
Hydro Gen (MU)	110	37	81	42	12	282
Wind Gen (MU)	2	17	27	-	-	45
Solar Gen (MU)*	36.04	33.71	85.31	4.34	0.13	160
Energy Shortage (MU)	15.19	0.00	0.00	0.00	0.04	15.23
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	49727	58079	39726	17135	2549	162466
Time Of Maximum Demand Met (From NLDC SCADA)	10:16	10:49	08:28	18:27	17:43	10:30

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	2.20	2.20	80.51	17.29

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	6531	0	127.4	67.8	-1.8	24	0.00
	Haryana	6919	0	133.3	110.3	0.6	270	2.50
	Rajasthan	13054	0	242.6	78.6	-0.4	351	0.00
	Delhi	3633	0	63.3	45.5	0.4	241	0.00
	UP	14584	0	259.7	90.7	-1.8	360	0.00
	Uttarakhand	1909	0	36.8	27.2	1.7	291	0.18
	HP	1636	0	30.1	23.3	-0.4	100	0.00
	J&K(UT) & Ladakh(UT)	2663	581	51.8	45.8	0.1	281	12.51
WR	Chandigarh	201	0	3.3	3.3	0.0	16	0.00
	Chhattisgarh	3441	0	75.0	20.8	0.1	226	0.00
	Gujarat	15865	0	345.7	66.9	5.1	522	0.00
	MP	14386	0	282.6	169.6	-1.3	458	0.00
	Maharashtra	22915	0	473.0	159.4	-3.5	629	0.00
	Goa	481	0	10.0	10.0	-0.2	20	0.00
	DD	338	0	7.4	7.1	0.3	35	0.00
	DNH	786	0	18.2	17.8	0.4	51	0.00
SR	AMNSIL	782	0	17.2	1.7	0.5	224	0.00
	Andhra Pradesh	7123	0	147.2	70.9	1.1	689	0.00
	Telangana	7514	0	148.7	54.5	0.1	511	0.00
	Karnataka	10626	0	197.1	58.9	0.1	567	0.00
	Kerala	3524	0	72.6	53.9	0.9	247	0.00
	Tamil Nadu	12758	0	263.3	173.0	2.3	801	0.00
	Puducherry	332	0	6.6	6.9	-0.4	39	0.00
	ER	Bihar	4091	0	72.4	71.7	-0.5	200
DVC		3010	0	61.8	-47.3	-1.0	284	0.00
Jharkhand		1323	0	24.0	21.0	-2.3	120	0.00
Odisha		3793	0	71.5	7.7	-0.8	290	0.00
West Bengal		5959	0	111.8	8.3	0.8	460	0.00
Sikkim		111	0	1.6	1.9	-0.2	15	0.00
NER	Arunachal Pradesh	132	2	2.2	2.2	-0.1	29	0.01
	Assam	1438	16	24.2	20.1	0.4	100	0.00
	Manipur	224	3	2.9	3.0	-0.1	56	0.01
	Meghalaya	363	1	6.2	4.3	-0.2	27	0.00
	Mizoram	102	0	1.6	1.3	0.0	23	0.01
	Nagaland	130	1	2.1	1.9	0.0	28	0.01
Tripura	216	5	3.7	3.0	-0.1	31	0.00	

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

	Bhutan	Nepal	Bangladesh
Actual (MU)	9.9	-4.8	-14.4
Day Peak (MW)	434.0	-425.7	-896.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	269.2	-259.9	124.7	-134.6	0.7	0.0
Actual(MU)	266.3	-259.7	131.8	-143.9	0.2	-5.3
O/D/U/D(MU)	-2.9	0.3	7.2	-9.4	-0.5	-5.3

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL
Central Sector	6966	15385	11032	2460	659	36501
State Sector	14026	14680	12507	4482	11	45705
Total	20992	30064	23539	6942	670	82207

G. Sourcewise generation (MU)

	NR	WR	SR	ER	NER	All India
Coal	461	1235	393	463	7	2559
Lignite	24	17	20	0	0	60
Hydro	110	37	81	42	12	282
Nuclear	28	33	60	0	0	121
Gas, Naptha & Diesel	21	113	14	0	26	174
RES (Wind, Solar, Biomass & Others)	66	64	146	4	0	280
Total	709	1499	713	509	45	3475
Share of RES in total generation (%)	9.25	4.25	20.44	0.85	0.29	8.04
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	28.63	8.94	40.21	9.06	27.08	19.62

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.029
Based on State Max Demands	1.064

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: 03-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	297	0.0	7.2	-7.2	
3	765 kV	GAYA-VARANASI	2	0	1185	0.0	14.6	-14.6	
4	765 kV	SASARAM-FATEHPUR	1	0	457	0.0	4.6	-4.6	
5	765 kV	GAYA-BALIA	1	0	525	0.0	7.8	-7.8	
6	400 kV	PUSAULI-VARANASI	1	0	225	0.0	4.9	-4.9	
7	400 kV	PUSAULI-ALLAHABAD	1	0	138	0.0	2.3	-2.3	
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	0	986	0.0	11.1	-11.1	
9	400 kV	PATNA-BALIA	4	0	1406	0.0	20.4	-20.4	
10	400 kV	BIHARSHARIFF-BALIA	2	0	532	0.0	6.0	-6.0	
11	400 kV	MOTHARI-GORAKHPUR	2	0	383	0.0	5.9	-5.9	
12	400 kV	BIHARSHARIFF-VARANASI	2	5	234	0.0	2.0	-2.0	
13	220 kV	PUSAULI-SAHUPURI	1	72	48	0.4	0.0	0.4	
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	0.8	86.7	-85.9
Import/Export of ER (With WR)									
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	330	854	0.0	3.6	-3.6	
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	379	758	0.0	1.4	-1.4	
3	765 kV	JHARSUGUDA-DURG	2	3	279	0.0	3.9	-3.9	
4	400 kV	JHARSUGUDA-RAIGARH	4	176	273	0.0	0.9	-0.9	
5	400 kV	RANCHI-SIPAT	2	161	278	0.0	0.0	0.0	
6	220 kV	BUDHIPADAR-RAIGARH	1	38	70	0.0	0.6	-0.6	
7	220 kV	BUDHIPADAR-KORBA	2	137	11	1.3	0.0	1.3	
						ER-WR	1.3	10.3	-9.0
Import/Export of ER (With SR)									
1	HVDC	JEYPORE-GAZUWAKA B/B	2	0	534	0.0	12.4	-12.4	
2	HVDC	TALCHER-KOLAR BIPOLE	2	0	1988	0.0	43.6	-43.6	
3	765 kV	ANGUL-SRIKAKULAM	2	0	2498	0.0	44.1	-44.1	
4	400 kV	TALCHER-IC	2	0	881	0.0	11.1	-11.1	
5	220 kV	BALIMELA-UPPER-SILERRU	1	1	0	0.0	0.0	0.0	
						ER-SR	0.0	100.1	-100.1
Import/Export of ER (With NER)									
1	400 kV	BINAGURI-BONGAIGAON	2	291	29	4.3	0.0	4.3	
2	400 kV	ALIPURDUAR-BONGAIGAON	2	443	22	6.2	0.0	6.2	
3	220 kV	ALIPURDUAR-SALAKATI	2	67	16	0.9	0.0	0.9	
						ER-NER	11.4	0.0	11.4
Import/Export of NER (With NR)									
1	HVDC	BISWANATH CHARIALI-AGRA	2	471	0	11.7	0.0	11.7	
						NER-NR	11.7	0.0	11.7
Import/Export of WR (With NR)									
1	HVDC	CHAMPA-KURUKSHETRA	2	0	1755	0.0	46.5	-46.5	
2	HVDC	VINDHYACHAL B/B	-	49	0	1.2	0.0	1.2	
3	HVDC	MUNDRA-MOHINDERGARH	2	0	1647	0.0	36.1	-36.1	
4	765 kV	GWALIOR-AGRA	2	0	2656	0.0	46.6	-46.6	
5	765 kV	PHAGI-GWALIOR	2	0	1574	0.0	22.3	-22.3	
6	765 kV	JABALPUR-ORAI	2	0	1062	0.0	33.0	-33.0	
7	765 kV	GWALIOR-ORAI	1	699	0	9.0	0.0	9.0	
8	765 kV	SATNA-ORAI	1	0	1516	0.0	29.9	-29.9	
9	765 kV	CHITORGARH-BANASKANTHA	2	0	852	0.0	9.6	-9.6	
10	400 kV	ZERDA-KANKROLI	1	61	153	0.0	1.0	-1.0	
11	400 kV	ZERDA-BHINMAL	1	0	405	0.0	4.9	-4.9	
12	400 kV	VINDHYACHAL-RIHAND	1	973	0	22.6	0.0	22.6	
13	400 kV	RAPP-SHUJALPUR	2	84	377	0.1	3.3	-3.2	
14	220 kV	BHANPURA-RANPUR	1	0	176	0.0	2.3	-2.3	
15	220 kV	BHANPURA-MORAK	1	11	0	0.1	1.0	-1.0	
16	220 kV	MEHGAON-AURAIYA	1	67	0	0.4	0.0	0.4	
17	220 kV	MALANPUR-AURAIYA	1	75	11	1.0	0.0	1.0	
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	34.3	236.4	-202.1
Import/Export of WR (With SR)									
1	HVDC	BHADRAWATI B/B	-	0	1016	0.0	14.7	-14.7	
2	HVDC	RAIGARH-PUGALUR	2	0	1489	0.0	15.3	-15.3	
3	765 kV	SOLAPUR-RAICHUR	2	753	2103	0.0	20.9	-20.9	
4	765 kV	WARDHA-NIZAMABAD	2	348	1898	0.0	22.6	-22.6	
5	400 kV	KOLHAPUR-KUDGI	2	579	0	6.4	0.0	6.4	
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	46	0.8	0.0	0.8	
						WR-SR	7.2	73.6	-66.4

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)	159	0	154	3.7
	ER	400kV TALA-BINAGURI 1,2,4 (& 400kV MALBASE - BINAGURI) i.e. BINAGURI RECEIPT (from TALA HEP (6*170MW))	203	197	203	4.9
	ER	220kV CHUKHA-BIRPARA 1&2 (& 220kV MALBASE - BIRPARA) i.e. BIRPARA RECEIPT (from CHUKHA HEP 4*84MW)	87	0	51	1.2
	NER	132KV-GEYLEGPHU - SALAKATI	2	-14	4	0.1
	NER	132kV Motanga-Rangia	-17	-2	-6	-0.1
NEPAL	NR	132KV-TANAKPUR(NH) - MAHENDRANAGAR(PG)	-52	0	-42	-1.0
	ER	400KV-MUZAFFARPUR - DHALKEBAR DC	-220	-98	-148	-3.5
	ER	132KV-BIHAR - NEPAL	-154	-1	-11	-0.3
BANGLADESH	ER	BHERAMARA HVDC(BANGLADESH)	-790	0	-511	-12.3
	NER	132KV-SURAJMANI NAGAR - COMILLA(BANGLADESH)-1	53	0	-44	-1.1
	NER	132KV-SURAJMANI NAGAR - COMILLA(BANGLADESH)-2	53	0	-44	-1.1