



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: 22nd Oct 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 21.10.2020.

महोदय/Dear Sir,

आई०ई०जी०सी०-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 21-अक्टूबर-2020 की अखिल भारतीय प्रणाली की दैनिक ग्रिड निष्पादन रिपोर्ट रा०भा०प्रे०के० 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 21st October 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: 22-Oct-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)	48024	50503	37259	22246	2875	160907
Peak Shortage (MW)	290	0	0	0	22	312
Energy Met (MU)	1042	1165	792	473	53	3525
Hydro Gen (MU)	156	34	117	91	19	417
Wind Gen (MU)	5	19	83	-	-	107
Solar Gen (MU)*	38.53	25.08	61.37	4.55	0.12	130
Energy Shortage (MU)	0.7	0.0	0.0	0.0	0.1	0.7
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	48854	51032	37307	22502	3022	161907
Time Of Maximum Demand Met (From NLDC SCADA)	09:50	18:41	18:40	20:27	18:02	18:41

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	0.019	0.00	0.00	1.05	1.05	84.24	14.71

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	6874	0	137.6	104.7	-1.0	115	0.0
	Haryana	7073	0	150.4	126.9	0.3	193	0.0
	Rajasthan	11679	0	240.6	89.2	0.8	391	0.0
	Delhi	3793	0	76.0	58.6	0.3	169	0.0
	UP	16632	310	322.6	124.0	-0.2	423	0.7
	Uttarakhand	1848	0	36.8	24.1	0.4	131	0.0
	HP	1481	0	29.3	16.1	0.6	167	0.0
	J&K(UT) & Ladakh(UT)	2279	0	44.8	33.6	0.4	180	0.0
	Chandigarh	195	0	3.4	3.4	0.1	22	0.0
	WR	Chhattisgarh	3755	0	84.6	35.8	-0.4	233
Gujarat		16091	0	357.1	67.9	1.8	422	0.0
MP		11129	0	245.6	146.5	-1.1	412	0.0
Maharashtra		19341	0	424.7	119.7	1.9	626	0.0
Goa		547	0	11.3	11.0	-0.3	45	0.0
DD		350	0	7.8	7.6	0.2	22	0.0
DNH		773	0	16.5	16.6	-0.1	33	0.0
SR	AMNSIL	800	0	17.6	1.2	0.4	263	0.0
	Andhra Pradesh	7395	0	151.7	70.6	0.1	334	0.0
	Telangana	6372	0	134.3	43.3	-0.2	380	0.0
	Karnataka	7206	0	142.0	54.2	0.6	527	0.0
	Kerala	3377	0	69.8	39.1	1.6	220	0.0
	Tamil Nadu	13406	0	286.4	149.2	-3.7	445	0.0
	Puducherry	377	0	7.6	8.0	-0.4	14	0.0
ER	Bihar	5840	0	110.8	106.2	-0.2	330	0.0
	DVC	3566	0	65.8	-49.1	-0.2	354	0.0
	Jharkhand	1477	0	29.3	23.1	-2.1	46	0.0
	Odisha	4635	0	95.1	13.5	-0.5	515	0.0
	West Bengal	8329	0	170.3	51.3	0.9	457	0.0
NER	Sikkim	90	0	1.3	1.4	-0.1	37	0.0
	Arunachal Pradesh	123	3	2.2	2.2	0.0	28	0.0
	Assam	1930	46	33.9	30.7	0.2	152	0.0
	Manipur	180	4	2.5	2.4	0.1	75	0.0
	Meghalaya	324	0	5.8	2.0	-0.3	31	0.0
	Mizoram	99	1	1.7	0.9	0.5	25	0.0
	Nagaland	132	2	2.4	2.3	-0.1	17	0.0
	Trinura	276	6	4.9	4.8	-0.1	55	0.0

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

	Bhutan	Nepal	Bangladesh
Actual (MU)	25.7	-1.2	-25.4
Day Peak (MW)	1139.0	-226.9	-1069.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	316.6	-292.1	68.6	-97.4	4.2	0.0
Actual(MU)	324.5	-290.3	56.7	-100.0	3.8	-5.1
O/D/U/D(MU)	7.9	1.8	-11.9	-2.6	-0.4	-5.1

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL
Central Sector	6780	16915	10362	1300	275	35632
State Sector	12929	13461	15746	4545	11	46692
Total	19709	30376	26108	5845	286	82324

G. Sourcewise generation (MU)

	NR	WR	SR	ER	NER	All India
Coal	459	1257	355	507	10	2588
Lignite	19	14	16	0	0	49
Hydro	156	34	117	91	19	417
Nuclear	25	21	68	0	0	113
Gas, Naptha & Diesel	25	94	13	0	26	158
RES (Wind, Solar, Biomass & Others)	55	44	176	5	0	279
Total	738	1463	744	603	55	3604
Share of RES in total generation (%)	7.39	3.02	23.61	0.75	0.22	7.75
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	31.88	6.74	48.44	15.91	34.17	22.46

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.005
Based on State Max Demands	1.049

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: 22-Oct-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	751	0.0	16.6	-16.6	
2	HVDC	PUSAULI B/B	-	0	297	0.0	7.1	-7.1	
3	765 kV	GAYALYARANASI	2	31	606	0.0	6.9	-6.9	
4	765 kV	SASARAM-FATEHPUR	1	225	155	1.4	0.0	1.4	
5	765 kV	GAYA-BALIA	1	0	651	0.0	11.5	-11.5	
6	400 kV	PUSAULI-VARANASI	1	0	282	0.0	5.6	-5.6	
7	400 kV	PUSAULI-ALLAHABAD	1	0	118	0.0	1.3	-1.3	
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	41	535	0.0	5.5	-5.5	
9	400 kV	PATNA-BALIA	4	0	1086	0.0	18.9	-18.9	
10	400 kV	BIHARSHARIFF-BALIA	2	0	557	0.0	9.1	-9.1	
11	400 kV	MOTIHARI-GORAKHPUR	2	0	250	0.0	4.5	-4.5	
12	400 kV	BIHARSHARIFF-VARANASI	2	272	109	2.6	0.0	2.6	
13	220 kV	PUSAULI-SAHUPURI	1	0	111	0.0	2.0	-2.0	
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	4.4	89.0	-84.5
Import/Export of ER (With WR)									
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	464	605	0.0	3.6	-3.6	
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	1192	0	20.1	0.0	20.1	
3	765 kV	JHARSUGUDA-DURG	2	147	193	0.0	0.4	-0.4	
4	400 kV	JHARSUGUDA-RAIGARH	4	1088	0	18.6	0.0	18.6	
5	400 kV	RANCHI-SIPAT	2	416	0	7.1	0.0	7.1	
6	220 kV	BUDHIPADAR-RAIGARH	1	27	97	0.0	1.0	-1.0	
7	220 kV	BUDHIPADAR-KORBA	2	116	0	1.5	0.0	1.5	
						ER-WR	47.3	4.9	-42.4
Import/Export of ER (With SR)									
1	HVDC	JEYPORE-GAZUWAKA B/B	2	0	370	0.0	8.6	-8.6	
2	HVDC	TALCHER-KOLAR BIPOLE	2	0	2006	0.0	42.8	-42.8	
3	765 kV	ANGUL-SRIKAKULAM	2	0	2551	0.0	37.2	-37.2	
4	400 kV	TALCHER-I/C	2	397	543	0.0	0.9	-0.9	
5	220 kV	BALIMELA-UPPER-SILERRU	1	1	0	0.0	0.0	0.0	
						ER-SR	88.6	0.0	-88.6
Import/Export of ER (With NER)									
1	400 kV	BINAGURI-BONGAIGAON	2	0	462	0.0	6.9	-6.9	
2	400 kV	ALIPURDUAR-BONGAIGAON	2	0	531	0.0	7.4	-7.4	
3	220 kV	ALIPURDUAR-SALAKATI	2	0	120	0.0	2.1	-2.1	
						ER-NER	0.0	16.4	-16.4
Import/Export of NER (With NR)									
1	HVDC	BISWANATH CHARIALI-AGRA	2	0	602	0.0	14.3	-14.3	
						NER-NR	0.0	14.3	-14.3
Import/Export of WR (With NR)									
1	HVDC	CHAMPA-KURUKSHETRA	2	0	1758	0.0	62.2	-62.2	
2	HVDC	VINDHYACHAL B/B	-	449	0	8.7	0.0	8.7	
3	HVDC	MUNDRAL-MOHENDERGARH	2	0	1549	0.0	38.7	-38.7	
4	765 kV	GWALIOR-AGRA	2	0	2853	0.0	52.6	-52.6	
5	765 kV	PHAGL-GWALIOR	2	0	1511	0.0	23.7	-23.7	
6	765 kV	JABALPUR-ORAI	2	0	1164	0.0	42.4	-42.4	
7	765 kV	GWALIOR-ORAI	1	617	0	9.5	0.0	9.5	
8	765 kV	SATNA-ORAI	1	0	1532	0.0	33.4	-33.4	
9	765 kV	CHITORGARH-BANASKANTHA	2	0	834	0.0	11.5	-11.5	
10	400 kV	ZERDA-KANKROLI	1	34	146	0.0	1.5	-1.5	
11	400 kV	ZERDA-BHINMAL	1	109	319	0.0	3.7	-3.7	
12	400 kV	VINDHYACHAL-RIHAND	1	979	0	22.4	0.0	22.4	
13	400 kV	RAPP-SHULJALPUR	2	0	409	0.0	6.2	-6.2	
14	220 kV	BHANPURA-RANPUR	1	0	88	0.0	1.2	-1.2	
15	220 kV	BHANPURA-MHARAK	1	11	0	0.0	0.5	-0.5	
16	220 kV	MEHGAON-AURAIYA	1	94	0	0.2	0.0	0.2	
17	220 kV	MALANPUR-AURAIYA	1	52	25	0.8	0.0	0.8	
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	41.7	277.7	-236.0
Import/Export of WR (With SR)									
1	HVDC	BHADRAWATI B/B	-	0	319	0.0	7.6	-7.6	
2	HVDC	RAIGARH-PUGALUR	2	0	0	0.0	0.0	0.0	
3	765 kV	SOLAPUR-RAICHUR	2	1144	1712	0.0	1.5	-1.5	
4	765 kV	WARDHA-NIZAMABAD	2	293	1983	0.0	13.9	-13.9	
5	400 kV	KOLHAPUR-KUDGI	2	894	0	11.6	0.0	11.6	
6	220 kV	KOLHAPUR-CHIKODI	2	0	0	0.0	0.0	0.0	
7	220 kV	PONDA-AMBEWADI	1	0	0	0.0	0.0	0.0	
8	220 kV	XELDEM-AMBEWADI	1	1	0	0.0	0.0	0.0	
						WR-SR	11.6	23.0	-11.4
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)	340	0	328	7.9			
	ER	400KV TALA-BINAGURI 1,2,3 (& 400KV MALBASE - BINAGURI) i.e. BINAGURI RECEIPT (from TALA HEP (6*170MW))	486	0	469	11.3			
	ER	220KV CHUKHA-BIRPARA 1&2 (& 220KV MALBASE - BIRPARA) i.e. BIRPARA RECEIPT (from CHUKHA HEP 4*84MW)	226	0	201	4.8			
	NER	132KV-GEYLEGPHU - SALAKATI	32	16	-27	-0.7			
	NER	132KV Motanga-Rangia	54	37	-48	-1.2			
NEPAL	NR	132KV-TANAKPUR(NH) - MAHENDRANAGAR(PG)	-46	0	-13	-0.3			
	ER	132KV-BIHAR - NEPAL	-57	0	-16	-0.4			
BANGLADESH	ER	220KV-MUZAFFARPUR - DHAIKEBAR DC	-124	-2	-23	-0.5			
	ER	BHERAMARA HVDC(BANGLADESH)	-932	-928	-930	-22.3			
	NER	132KV-SURAJMANI NAGAR - COMILLA(BANGLADESH)-1	69	0	-64	-1.5			
	NER	132KV-SURAJMANI NAGAR - COMILLA(BANGLADESH)-2	68	0	-64	-1.5			