



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: 12th 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 11.10.2020.

महोदय/Dear Sir,

आई०ई०जी०सी०-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 11-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 11th 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: 12-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)	50366	47335	33604	22180	2892	156377
Peak Shortage (MW)	0	0	0	63	7	70
Energy Met (MU)	1123	1120	757	464	54	3518
Hydro Gen (MU)	195	29	83	117	23	447
Wind Gen (MU)	2	41	89	-	-	131
Solar Gen (MU)*	40.40	25.42	43.62	4.74	0.07	114
Energy Shortage (MU)	0.3	0.0	0.0	0.2	0.1	0.5
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	52079	47646	33880	22685	2952	156475
Time Of Maximum Demand Met (From NLDC SCADA)	19:21	11:00	09:24	20:08	18:59	19:06

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	0.022	0.00	0.00	0.54	0.54	77.13	22.32

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	8516	0	179.0	131.7	-1.6	215	0.0
	Haryana	7004	0	157.1	130.3	0.9	235	0.0
	Rajasthan	11166	0	229.6	76.3	1.3	695	0.0
	Delhi	3764	0	81.6	65.2	-0.5	147	0.0
	UP	18949	0	365.3	143.1	-1.2	337	0.3
	Uttarakhand	1655	0	34.3	18.2	0.3	126	0.0
	HP	1295	0	27.5	11.4	-1.3	47	0.0
	J&K(UT) & Ladakh(UT)	2595	0	45.3	30.4	0.0	421	0.0
	Chandigarh	189	0	3.5	3.7	-0.2	13	0.0
	Chhattisgarh	3621	0	84.5	16.5	-0.3	152	0.0
WR	Gujarat	16365	0	361.2	67.1	3.6	714	0.0
	MP	10201	0	226.0	142.0	-1.9	333	0.0
	Maharashtra	17571	0	396.7	141.7	-1.4	663	0.0
	Goa	411	0	8.4	8.1	-0.2	44	0.0
	DD	305	0	6.9	6.8	0.1	24	0.0
	DNH	778	0	18.3	18.3	0.0	41	0.0
	AMNSIL	813	0	18.1	1.2	0.6	240	0.0
	Andhra Pradesh	6511	0	145.7	68.5	-1.4	566	0.0
	Telangana	6744	0	143.2	49.9	-2.0	477	0.0
	Karnataka	6676	0	133.2	39.0	0.3	930	0.0
SR	Kerala	2979	0	60.7	40.2	0.7	177	0.0
	Tamil Nadu	12041	0	267.0	146.1	-5.6	448	0.0
	Puducherry	335	0	7.3	7.4	-0.1	31	0.0
	Bihar	5721	0	112.9	108.5	-0.5	242	0.0
	DVC	3191	0	66.5	-45.6	0.7	301	0.0
	Jharkhand	1482	63	29.6	22.5	-1.5	75	0.2
	Odisha	4563	0	91.6	9.3	-0.1	425	0.0
	West Bengal	8131	0	162.6	59.3	2.1	581	0.0
	Sikkim	76	0	1.0	1.3	-0.3	14	0.0
	NER	Arunachal Pradesh	121	1	2.3	2.1	0.2	58
Assam		1870	6	34.2	30.9	0.0	146	0.0
Manipur		193	2	2.8	2.6	0.2	19	0.0
Meghalaya		317	0	5.7	0.8	0.0	66	0.0
Mizoram		85	1	1.5	0.9	0.2	16	0.0
Nagaland		135	3	2.5	2.4	-0.1	33	0.0
Tripura		301	2	4.9	6.6	0.3	66	0.0

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

	Bhutan	Nepal	Bangladesh
Actual (MU)	37.1	-1.8	-25.2
Day Peak (MW)	1673.0	-236.2	-1075.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	323.9	-325.6	79.8	-82.2	4.2	0.0
Actual(MU)	338.6	-321.2	48.9	-71.6	5.0	-0.2
O/D/U/D(MU)	14.7	4.4	-30.8	10.7	0.8	-0.2

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL
Central Sector	6147	13217	10112	2285	275	32035
State Sector	11724	16660	12486	5795	112	46776
Total	17871	29876	22598	8080	387	78811

G. Sourcewise generation (MU)

	NR	WR	SR	ER	NER	All India
Coal	485	1223	370	434	10	2522
Lignite	25	11	16	0	0	53
Hydro	195	29	83	117	23	447
Nuclear	27	20	69	0	0	116
Gas, Naptha & Diesel	22	105	14	0	22	164
RES (Wind, Solar, Biomass & Others)	54	66	164	5	0	289
Total	808	1455	716	556	55	3590

Share of RES in total generation (%)	6.66	4.56	22.91	0.85	0.13	8.05
Share of Non-fossil fuel (Hydro, Nuclear and RES) in total generation(%)	34.09	7.94	44.05	21.93	42.16	23.72

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.018
Based on State Max Demands	1.065

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: 12-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	1202	0.0	29.2	-29.2
2	HVDC	PUSAULI B/B	-	0	297	0.0	7.5	-7.5
3	765 kV	GAYA-VARANASI	2	106	384	0.0	4.4	-4.4
4	765 kV	SASARAM-EATEHPUR	1	404	69	4.3	0.0	4.3
5	765 kV	GAYA-BALIA	1	0	412	0.0	8.2	-8.2
6	400 kV	PUSAULI-VARANASI	1	0	277	0.0	5.9	-5.9
7	400 kV	PUSAULI-ALLAHABAD	1	0	118	0.0	1.4	-1.4
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	110	414	0.0	4.3	-4.3
9	400 kV	PATNA-BALIA	4	0	612	0.0	9.1	-9.1
10	400 kV	BIHARSHARIF-BALIA	2	10	218	0.0	2.4	-2.4
11	400 kV	MOTIHARI-GORAKHPUR	2	0	250	0.0	4.3	-4.3
12	400 kV	BIHARSHARIF-VARANASI	2	341	25	3.9	0.0	3.9
13	220 kV	PUSAULI-SAHUPURI	1	0	107	0.0	2.0	-2.0
14	132 kV	SONENAGAR-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	8.7	-70.0
Import/Export of ER (With WR)								
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	695	580	3.4	0.0	3.4
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	1665	0	26.5	0.0	26.5
3	765 kV	JHARSUGUDA-DURG	2	219	21	2.3	0.0	2.3
4	400 kV	JHARSUGUDA-RAIGARH	4	376	0	5.5	0.0	5.5
5	400 kV	RANCHI-SIPAT	2	525	0	9.0	0.0	9.0
6	220 kV	BUDHIPADAR-RAIGARH	1	0	103	0.0	1.4	-1.4
7	220 kV	BUDHIPADAR-KORBA	2	166	0	3.1	0.0	3.1
						ER-WR	49.8	1.4
Import/Export of ER (With SR)								
1	HVDC	JEYPORE-GAZUWAKA B/B	2	0	437	0.0	9.9	-9.9
2	HVDC	TALCHER-KOLAR BIPOLE	2	0	1636	0.0	31.5	-31.5
3	765 kV	ANGUL-SRIKAKULAM	2	0	1893	0.0	28.8	-28.8
4	400 kV	TALCHER-JC	2	358	549	0.9	0.0	0.9
5	220 kV	BALIMELA-UPPER-SILERRU	1	1	0	0.0	0.0	0.0
						ER-SR	70.1	-70.1
Import/Export of ER (With NER)								
1	400 kV	BINAGURI-BONGAIGAON	2	0	589	0.0	8.5	-8.5
2	400 kV	ALIPURDUAR-BONGAIGAON	2	0	490	0.0	6.4	-6.4
3	220 kV	ALIPURDUAR-SALAKATI	2	0	151	0.0	2.5	-2.5
						ER-NER	17.4	-17.4
Import/Export of NER (With NR)								
1	HVDC	BISWANATH CHARIALI-AGRA	2	0	604	0.0	14.6	-14.6
						NER-NR	14.6	-14.6
Import/Export of WR (With NR)								
1	HVDC	CHAMPA-KURUKSHETRA	2	0	1755	0.0	63.6	-63.6
2	HVDC	VINDHYACHAL B/B	-	182	256	0.6	5.4	-4.9
3	HVDC	MUNDA-MOHINDERGARH	2	0	1921	0.0	43.9	-43.9
4	765 kV	GWALIOR-AGRA	2	0	2888	0.0	55.2	-55.2
5	765 kV	PHAGI-GWALIOR	2	0	1363	0.0	25.3	-25.3
6	765 kV	JABALPUR-ORAI	2	0	1173	0.0	45.4	-45.4
7	765 kV	GWALIOR-ORAI	1	533	0	9.7	0.0	9.7
8	765 kV	SATNA-ORAI	1	0	1518	0.0	33.7	-33.7
9	765 kV	CHITORGARH-BANASKANTHA	2	40	899	0.0	7.1	-7.1
10	400 kV	ZERDA-KANKROLI	1	70	157	0.0	1.2	-1.2
11	400 kV	ZERDA -BHINMAL	1	19	243	0.0	3.0	-3.0
12	400 kV	VINDHYACHAL -RIHAND	1	981	0	22.3	0.0	22.3
13	400 kV	RAPP-SHUALPUR	2	0	433	0.0	3.8	-3.8
14	220 kV	BHANPURA-RANPUR	1	0	139	0.0	2.2	-2.2
15	220 kV	BHANPURA-MORAK	1	11	0	0.0	2.1	-2.1
16	220 kV	MEHGAON-AURAIYA	1	107	0	0.2	0.1	0.1
17	220 kV	MALANPUR-AURAIYA	1	58	29	0.0	1.2	-1.2
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	0.0	0.0
						WR-NR	34.0	291.7
Import/Export of WR (With SR)								
1	HVDC	BHADRAWATI B/B	-	0	525	0.0	9.6	-9.6
2	HVDC	RAIGARH-PUGALUR	2	0	399	0.0	9.3	-9.3
3	765 kV	SOLAPUR-RAICHUR	2	1331	970	4.6	0.0	4.6
4	765 kV	WARDHA-NIZAMABAD	2	336	1108	0.0	10.7	-10.7
5	400 kV	KOLHAPUR-KUDGI	2	814	0	10.1	0.0	10.1
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	NELDEM-AMBEWADI	1	0	81	1.5	0.0	1.5
						WR-SR	16.2	29.6

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)	455	0	445	10.7
	ER	400kV TALA-BINAGURI 1,2,3 (& 400kV MALBASE - BINAGURI) i.e. BINAGURI RECEIPT (from TALA HEP (6*170MW))	781	0	710	17.1
	ER	220kV CHUKHA-BIRPARA 1&2 (& 220kV MALBASE - BIRPARA) i.e. BIRPARA RECEIPT (from CHUKHA HEP 4*84MW)	321	0	290	7.0
	NER	132kV-GEYLEGPHU - SALAKATI	51	37	-45	-1.1
NEPAL	NR	132kV-TANAKPUR(NH) - MAHENDRANAGAR(PG)	-49	0	-17	-0.4
	ER	132kV-BIHAR - NEPAL	-17	-1	-3	-0.1
		220kV-MUZAFFARPUR - DHALKEBAR DC	-170	-2	-54	-1.3
BANGLADESH	ER	BHERAMARA HVDC(BANGLADESH)	-910	-907	-909	-21.8
	NER	132kV-SURAJMANI NAGAR - COMILLA(BANGLADESH)-1	82	0	-71	-1.7
	NER	132kV-SURAJMANI NAGAR - COMILLA(BANGLADESH)-2	83	0	-71	-1.7