



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: 11th 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 10.10.2020.

महोदय/Dear Sir,

आईईजीसी-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 10-अक्टूबर-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 10th 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: 11-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)	52570	49972	37928	22647	3008	166125
Peak Shortage (MW)	448	0	0	0	145	593
Energy Met (MU)	1164	1175	869	473	56	3737
Hydro Gen (MU)	195	36	84	123	23	461
Wind Gen (MU)	2	36	60	-	-	98
Solar Gen (MU)*	41.49	27.67	74.39	4.81	0.13	148
Energy Shortage (MU)	0.2	0.0	0.0	0.0	3.1	3.3
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	54099	51133	39605	23109	3086	167142
Time Of Maximum Demand Met (From NLDC SCADA)	19:17	10:59	09:20	20:44	18:17	19:02

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	2.03	2.03	83.95	14.03

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	8280	0	169.1	112.7	0.1	185	0.0	
	Harvana	7849	68	167.9	134.0	2.1	244	0.1	
	Rajasthan	11423	0	243.1	76.3	-0.5	307	0.0	
	Delhi	4040	0	86.7	69.0	-0.3	162	0.0	
	UP	19902	0	378.7	148.9	0.1	426	0.1	
	Uttarakhand	1897	0	38.0	21.9	0.4	111	0.0	
	HP	1431	0	29.8	13.9	-0.3	85	0.0	
	J&K(UT) & Ladakh(UT)	2641	0	47.0	31.1	0.9	366	0.0	
WR	Chandigarh	208	0	4.0	4.0	-0.1	17	0.0	
	Chhattisgarh	3615	0	85.3	18.1	-0.5	254	0.0	
	Gujarat	16742	0	370.6	70.6	3.1	651	0.0	
	MP	10171	0	227.4	138.9	-1.6	246	0.0	
	Maharashtra	20419	0	438.2	154.1	-1.8	579	0.0	
	Goa	498	0	9.8	9.6	-0.2	82	0.0	
	DD	338	0	7.6	7.4	0.2	33	0.0	
	DNH	801	0	18.1	18.4	-0.2	73	0.0	
SR	AMNSIL	813	0	18.2	1.2	0.6	255	0.0	
	Andhra Pradesh	7707	0	166.3	84.4	-0.3	621	0.0	
	Telangana	8335	0	169.8	58.6	-1.5	486	0.0	
	Karnataka	8180	0	159.4	59.2	1.1	467	0.0	
	Kerala	3307	0	68.1	45.6	0.5	176	0.0	
	Tamil Nadu	13309	0	297.1	162.9	-4.7	444	0.0	
	Puducherry	380	0	7.9	8.1	-0.2	36	0.0	
	ER	Bihar	5743	0	113.8	106.6	0.5	425	0.0
DVC		3099	0	65.1	-51.3	1.3	409	0.0	
Jharkhand		1444	0	28.3	23.0	-0.6	158	0.0	
Odisha		4343	0	92.5	9.0	-0.2	309	0.0	
West Bengal		8759	0	172.3	57.8	2.6	523	0.0	
Sikkim		89	0	1.3	1.4	-0.1	19	0.0	
NER		Arumachal Pradesh	127	1	2.2	2.2	0.0	24	0.0
		Assam	1961	96	36.0	32.2	0.6	149	3.0
	Manipur	204	2	2.7	2.6	0.2	18	0.0	
	Meghalava	333	0	5.8	0.9	0.0	40	0.0	
	Mizoram	99	1	1.6	1.0	0.2	22	0.0	
	Nagaland	130	1	2.5	2.5	-0.2	9	0.0	
	Tripura	301	1	5.3	6.6	0.6	159	0.0	

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

	Bhutan	Nepal	Bangladesh
Actual (MU)	38.2	-0.8	-25.9
Day Peak (MW)	1814.0	-224.5	-1102.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	309.8	-319.7	103.2	-99.4	6.1	0.0
Actual(MU)	330.1	-336.1	90.5	-98.5	8.9	-5.1
OD/UD(MU)	20.2	-16.5	-12.6	1.0	2.8	-5.1

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL
Central Sector	6147	13667	9822	2285	638	32558
State Sector	11064	16465	12586	5795	112	46021
Total	17211	30131	22408	8080	751	78580

G. Sourcewise generation (MU)

	NR	WR	SR	ER	NER	All India
Coal	530	1291	436	470	10	2738
Lignite	25	11	19	0	0	55
Hydro	195	36	84	123	23	461
Nuclear	27	20	69	0	0	116
Gas, Naptha & Diesel	27	102	14	0	20	163
RES (Wind, Solar, Biomass & Others)	55	64	167	5	0	291
Total	859	1524	789	598	53	3823
Share of RES in total generation (%)	6.36	4.20	21.16	0.81	0.24	7.60
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	32.19	7.85	40.48	21.41	44.14	22.68

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.023
Based on State Max Demands	1.070

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: 11-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	1402	0.0	28.4	-28.4	
2	HVDC	PUSAULI B/B	-	0	799	0.0	7.2	-7.2	
3	765 kV	GAYA-VARANASI	2	171	448	0.0	4.9	-4.9	
4	765 kV	SASARAM-FATEHPUR	1	357	78	3.2	0.0	3.2	
5	765 kV	GAYA-BALIA	1	0	453	0.0	8.6	-8.6	
6	400 kV	PUSAULI-VARANASI	1	0	277	0.0	5.5	-5.5	
7	400 kV	PUSAULI -ALLAHABAD	1	0	111	0.0	1.5	-1.5	
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	41	596	0.0	6.9	-6.9	
9	400 kV	PATNA-BALIA	4	0	880	0.0	15.6	-15.6	
10	400 kV	BIHARSHARIEF-BALIA	2	0	406	0.0	5.2	-5.2	
11	400 kV	MOTIHARI-GORAKHPUR	2	0	264	0.0	5.0	-5.0	
12	400 kV	BIHARSHARIEF-VARANASI	2	292	122	2.0	0.0	2.0	
13	220 kV	PUSAULI-SAHUPURI	1	0	122	0.0	2.1	-2.1	
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-CHANDAUJI	1	0	0	0.0	0.0	0.0	
						ER-NR	5.6	90.8	-85.3
Import/Export of ER (With WR)									
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	889	0	10.1	0.0	10.1	
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	1378	0	22.2	0.0	22.2	
3	765 kV	JHARSUGUDA-DURG	2	204	65	1.5	0.0	1.5	
4	400 kV	JHARSUGUDA-RAIGARH	4	363	0	4.7	0.0	4.7	
5	400 kV	RANCHI-SIPAT	2	554	0	8.7	0.0	8.7	
6	220 kV	BUDHIPADAR-RAIGARH	1	0	117	0.0	1.9	-1.9	
7	220 kV	BUDHIPADAR-KORBA	2	170	0	2.7	0.0	2.7	
						ER-WR	50.0	1.9	48.1
Import/Export of ER (With SR)									
1	HVDC	JEYPORE-GAZUWAKA B/B	2	0	454	0.0	10.0	-10.0	
2	HVDC	TALCHER-KOLAR BIPOLE	2	0	1640	0.0	36.1	-36.1	
3	765 kV	ANGUL-SRIKAKULAM	2	0	2119	0.0	38.7	-38.7	
4	400 kV	TALCHER-I/C	2	523	242	3.7	0.0	3.7	
5	220 kV	BALIMELA-UPPER-SILERRU	1	1	0	0.0	0.0	0.0	
						ER-SR	0.0	84.8	-84.8
Import/Export of ER (With NER)									
1	400 kV	BINAGURI-BONGAIGAON	2	0	652	0.0	9.3	-9.3	
2	400 kV	ALIPURDUAR-BONGAIGAON	2	0	656	0.0	8.9	-8.9	
3	220 kV	ALIPURDUAR-SALAKATI	2	0	176	0.0	2.8	-2.8	
						ER-NER	0.0	21.0	-21.0
Import/Export of NER (With NR)									
1	HVDC	BISWANATH CHARIALI-AGRA	2	0	604	0.0	14.6	-14.6	
						NER-NR	0.0	14.6	-14.6
Import/Export of WR (With NR)									
1	HVDC	CHAMPA-KURUKSHETRA	2	0	1125	0.0	46.3	-46.3	
2	HVDC	VINDHYACHAL B/B	-	315	255	0.2	0.0	0.2	
3	HVDC	MUNDA-MOHENDERGARH	2	0	1919	0.0	42.3	-42.3	
4	765 kV	GWALIOR-AGRA	2	0	3187	0.0	57.4	-57.4	
5	765 kV	PHAGI-GWALIOR	2	0	1502	0.0	24.8	-24.8	
6	765 kV	JABALPUR-ORAI	2	0	1341	0.0	45.8	-45.8	
7	765 kV	GWALIOR-ORAI	1	554	0	9.9	0.0	9.9	
8	765 kV	SATNA-ORAI	1	0	1620	0.0	32.7	-32.7	
9	765 kV	CHITORGARH-BANASKANTHA	2	0	747	0.0	9.1	-9.1	
10	400 kV	ZERDA-KANKROLI	1	31	121	0.0	1.1	-1.1	
11	400 kV	ZERDA -BHINMAL	1	4	236	0.0	2.8	-2.8	
12	400 kV	VINDHYACHAL -RIHAND	1	971	0	22.5	0.0	22.5	
13	400 kV	RAPP-SHILAPUR	2	0	582	0.0	8.4	-8.4	
14	220 kV	BHANPURA-RANPUR	2	0	171	0.0	2.4	-2.4	
15	220 kV	BHANPURA-MORAK	1	11	0	0.0	2.1	-2.1	
16	220 kV	MEHGAON-AURAIYA	1	110	0	0.2	0.1	0.1	
17	220 kV	MALANPUR-AURAIYA	1	60	27	1.1	0.0	1.1	
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	33.9	275.4	-241.5
Import/Export of WR (With SR)									
1	HVDC	BHADRAWATI B/B	-	0	1016	0.0	18.3	-18.3	
2	HVDC	RAIGARH-PUGAUR	2	0	798	0.0	15.0	-15.0	
3	765 kV	SOLAPUR-RAICHUR	2	1439	1257	0.0	6.8	-6.8	
4	765 kV	WARDHA-NIZAMABAD	2	345	1483	0.0	18.0	-18.0	
5	400 kV	KOLHAPUR-KUDGI	2	766	0	10.2	0.0	10.2	
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	0	85	1.6	0.0	1.6	
						WR-SR	11.9	58.0	-46.2
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)	538	0	453	10.9			
	ER	400KV TALA-BINAGURI 1,2,4 (& 400KV MALBASE - BINAGURI) I.e. BINAGURI RECEIPT (from TALA HEP 6*170MW)	827	0	739	17.7			
	ER	220KV CHUKHA-BIRPARA 1&2 (& 220KV MALBASE - BIRPARA) I.e. BIRPARA RECEIPT (from CHUKHA HEP 4*84MW)	331	0	295	7.1			
	NER	132KV-GEYLEGPHU - SALAKATI	65	0	-47	-1.1			
NEPAL	NER	132KV Motanga-Rangia	52	38	-47	-1.1			
	NR	132KV-TANAKPUR(NH) - MAHENDRANAGAR(PG)	-46	0	-9	-0.2			
	ER	132KV-BIHAR - NEPAL	-15	0	-2	0.0			
BANGLADESH	ER	220KV-MUZAFFARPUR - DHALKEBAR DC	-164	-1	-21	-0.5			
	ER	BHERAMARA HVDC(BANGLADESH)	-940	-923	-939	-22.5			
	NER	132KV-SURAJMANI NAGAR - COMILLA(BANGLADESH)-1	81	0	-70	-1.7			
	NER	132KV-SURAJMANI NAGAR - COMILLA(BANGLADESH)-2	81	0	-70	-1.7			