



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: 14th Sep 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., डोंगतिह, 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 13.09.2020.

महोदय/Dear Sir,

आई०ई०जी०सी०-2010 की धारा स.5.5.1 के प्रावधान के अनुसार, दिनांक 13-सितंबर-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 13th September 2020, is available at the NLDC website.

धन्यवाद,

पाँवर सिस्टम ऑपरेशन कारपोरेशन लिमिटेड
राष्ट्रीय भार प्रेषण केंद्र, नई दिल्ली



Report for previous day

Date of Reporting: 14-Sep-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 2000 hrs; from RLDCs)	63175	44509	32033	22106	2670	164493
Peak Shortage (MW)	255	0	0	0	13	268
Energy Met (MU)	1418	1044	739	472	53	3725
Hydro Gen (MU)	321	94	112	112	23	662
Wind Gen (MU)	5	38	119	-	-	163
Solar Gen (MU)*	37.01	25.53	44.29	4.17	0.02	111
Energy Shortage (MU)	0.0	0.0	0.0	0.0	0.1	0.1
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	65062	43949	33830	23017	2716	165725
Time Of Maximum Demand Met (From NLDC SCADA)	22:19	10:56	09:41	00:01	19:04	00:00

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	0.018	0.00	0.00	0.35	0.35	83.77	15.88

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	11431	0	261.4	145.8	-2.2	9	0.0
	Haryana	9434	0	205.6	149.2	1.9	302	0.0
	Rajasthan	11015	0	246.3	86.2	1.8	542	0.0
	Delhi	5631	0	110.8	99.2	-1.7	87	0.0
	UP	23375	0	473.8	219.1	0.7	478	0.0
	Uttarakhand	1817	0	40.2	17.5	1.2	112	0.0
	HP	1339	0	30.5	0.7	-1.1	53	0.0
	J&K(UT) & Ladakh(UT)	2327	0	43.4	26.6	-1.5	83	0.0
	Chandigarh	278	0	5.5	5.4	0.2	33	0.0
WR	Chhattisgarh	4021	0	96.3	41.0	-1.0	199	0.0
	Gujarat	12911	0	292.6	89.8	1.3	681	0.0
	MP	9577	0	217.5	109.2	-2.2	315	0.0
	Maharashtra	17213	0	386.6	148.4	-3.4	452	0.0
	Goa	365	0	7.8	7.5	-0.3	50	0.0
	DD	287	0	6.6	6.5	0.1	17	0.0
	DNH	743	0	17.3	17.4	-0.1	26	0.0
	AMNSIL	861	0	18.9	4.5	0.1	266	0.0
	SR	Andhra Pradesh	6640	0	146.5	36.1	-0.3	796
Telangana		7172	0	154.1	56.7	-2.6	488	0.0
Karnataka		6274	0	129.9	49.0	-1.0	424	0.0
Kerala		2732	0	54.9	32.7	0.1	190	0.0
Tamil Nadu		10925	0	247.0	120.9	-2.0	394	0.0
Puducherry		325	0	6.9	7.4	-0.5	23	0.0
ER	Bihar	6130	0	119.0	112.7	-0.1	420	0.0
	DVC	3204	0	65.7	-41.3	-0.4	530	0.0
	Jharkhand	1612	0	29.9	22.1	-0.7	190	0.0
	Odisha	4170	0	88.3	24.8	0.0	215	0.0
	West Bengal	8228	0	167.9	54.0	1.4	330	0.0
	Sikkim	76	0	0.9	1.1	-0.2	15	0.0
NER	Arumachal Pradesh	103	1	2.2	2.2	0.0	13	0.0
	Assam	1735	6	33.6	28.8	1.3	70	0.0
	Manipur	192	2	2.5	2.5	0.0	19	0.0
	Meghalaya	305	0	5.8	1.7	-0.3	64	0.0
	Mizoram	84	2	1.7	1.1	0.3	10	0.0
	Nagaland	120	1	2.2	2.5	-0.5	7	0.0
	Tripura	296	4	4.7	5.8	-0.3	15	0.0

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

	Bhutan	Nepal	Bangladesh
Actual (MU)	49.3	-2.6	-26.3
Day Peak (MW)	2081.0	-282.2	-1119.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	329.1	-301.5	49.5	-77.6	0.5	0.0
Actual(MU)	344.7	-322.7	31.2	-56.5	-0.9	-4.2
OD/UD(MU)	15.6	-21.2	-18.3	21.1	-1.4	-4.2

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL
Central Sector	3921	12788	11502	2245	446	30903
State Sector	6939	19328	15662	5525	11	47465
Total	10860	32116	27164	7770	457	78368

G. Sourcewise generation (MU)

	NR	WR	SR	ER	NER	All India
Coal	626	1103	301	436	10	2476
Lignite	30	10	25	0	0	65
Hydro	321	94	112	112	23	662
Nuclear	26	21	69	0	0	116
Gas, Naptha & Diesel	31	57	16	0	26	130
RES (Wind, Solar, Biomass & Others)	61	65	195	4	0	325
Total	1096	1348	717	553	59	3774
Share of RES in total generation (%)	5.53	4.78	27.21	0.75	0.03	8.60
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	37.26	13.29	52.37	21.08	38.57	29.22

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.029
Based on State Max Demands	1.055

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: 14-Sep-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	1001	0.0	24.0	-24.0	
2	HVDC	PUSAULI B/B	-	0	297	0.0	7.3	-7.3	
3	765 kV	GAYA-VARANASI	2	0	381	0.0	4.6	-4.6	
4	765 kV	SASARAM-FATEHPUR	1	272	128	5.0	0.0	5.0	
5	765 kV	GAYA-BALLIA	1	0	490	0.0	8.6	-8.6	
6	400 kV	PUSAULI-VARANASI	1	0	274	0.0	6.0	-6.0	
7	400 kV	PUSAULI-ALLAHABAD	1	0	80	0.0	1.2	-1.2	
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	0	589	0.0	8.3	-8.3	
9	400 kV	PATNA-BALLIA	4	0	759	0.0	13.0	-13.0	
10	400 kV	BHARSHARIF-BALLIA	2	0	311	0.0	4.1	-4.1	
11	400 kV	MOTIHAR-GORAKHPUR	2	0	319	0.0	5.2	-5.2	
12	400 kV	BHARSHARIF-VARANASI	2	194	0	2.9	0.0	2.9	
13	220 kV	PUSAULI-SAHUPURI	1	2	168	0.0	1.9	-1.9	
14	132 kV	SONE NAGAR-BIHAND	1	0	0	0.0	0.0	0.0	
15	132 kV	GARWAH-BIHAND	1	30	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	8.3	84.1	-75.9
Import/Export of ER (With WR)									
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	748	8	7.1	0.0	7.1	
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	1759	0	30.9	0.0	30.9	
3	765 kV	JHARSUGUDA-DURG	2	200	24	1.8	0.0	1.8	
4	400 kV	JHARSUGUDA-RAIGARH	4	354	0	3.8	0.0	3.8	
5	400 kV	RANCHI-SIPAT	2	635	0	11.2	0.0	11.2	
6	220 kV	BUDHIPADAR-RAIGARH	1	40	45	0.0	0.2	-0.2	
7	220 kV	BUDHIPADAR-KORBA	2	222	0	4.5	0.0	4.5	
						ER-WR	59.4	0.2	59.2
Import/Export of ER (With SR)									
1	HVDC	JEPPORE-GAZIWAKA B/B	2	0	381	0.0	8.6	-8.6	
2	HVDC	TALCHER-KOLAR BIPOLE	2	0	1644	0.0	31.0	-31.0	
3	765 kV	ANGUL-SRIKAKULAM	2	0	1770	0.0	23.2	-23.2	
4	400 kV	TALCHER-I/C	2	559	636	0.0	2.6	-2.6	
5	220 kV	BALIMELA-UPPER-SILERRU	1	1	0	0.0	0.0	0.0	
						ER-SR	0.0	62.8	-62.8
Import/Export of ER (With NER)									
1	400 kV	BINAGURI-BONGAIGAON	2	0	344	0.0	4.6	-4.6	
2	400 kV	ALIPURDUAR-BONGAIGAON	2	0	362	0.0	3.9	-3.9	
3	220 kV	ALIPURDUAR-SALAKATI	2	0	114	0.0	1.8	-1.8	
						ER-NER	0.0	10.2	-10.2
Import/Export of NER (With NR)									
1	HVDC	BISWANATH CHARIALI-AGRA	2	0	553	0.0	13.4	-13.4	
						NER-NR	0.0	13.4	-13.4
Import/Export of WR (With NR)									
1	HVDC	CHAMPA-KURUKSHETRA	2	0	2001	0.0	70.9	-70.9	
2	HVDC	VINDHYACHAL B/B	-	183	105	2.1	1.2	0.9	
3	HVDC	MUNDRA-MOHINDERGARH	2	0	1919	0.0	34.7	-34.7	
4	765 kV	GWALIOR-AGRA	2	0	2871	0.0	56.0	-56.0	
5	765 kV	PHAGL-GWALIOR	2	0	1188	0.0	23.5	-23.5	
6	765 kV	JABALPUR-ORAI	2	0	1139	0.0	44.8	-44.8	
7	765 kV	GWALIOR-ORAI	1	420	0	8.9	0.0	8.9	
8	765 kV	SATNA-ORAI	1	0	1504	0.0	33.5	-33.5	
9	765 kV	CHITORGARH-BANASKANTHA	2	0	1038	0.0	15.8	-15.8	
10	400 kV	ZERDA-KANKROLI	1	0	182	0.0	2.4	-2.4	
11	400 kV	ZERDA-BHINMAL	1	0	273	0.0	3.0	-3.0	
12	400 kV	VINDHYACHAL-BIHAND	1	950	0	22.6	0.0	22.6	
13	400 kV	RAPP-SHUJALPUR	2	0	522	0.0	8.4	-8.4	
14	220 kV	BHANPURA-RANPUR	1	11	0	0.0	1.8	-1.8	
15	220 kV	BHANPURA-MORAK	1	0	127	0.0	2.3	-2.3	
16	220 kV	MEHGAON-AURAIYA	1	72	6	0.1	0.3	-0.2	
17	220 kV	MALANPUR-AURAIYA	1	27	41	0.9	0.0	0.9	
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	34.5	298.5	-264.0
Import/Export of WR (With SR)									
1	HVDC	BHADRAWATI B/B	-	0	518	0.0	8.0	-8.0	
2	HVDC	RAIGARH-PUGALUR	2	0	150	0.0	3.6	-3.6	
3	765 kV	SOLAPUR-RAICHUR	2	1383	800	11.4	0.0	11.4	
4	765 kV	WARDHA-NIZAMABAD	2	106	1336	0.0	12.4	-12.4	
5	400 kV	KOLHAPUR-KUDGI	2	727	0	12.1	0.0	12.1	
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	XELDEM-AMBEWADI	1	0	80	1.4	0.0	1.4	
						WR-SR	24.8	24.1	0.7

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)	776	0	552	13.2
	ER	400kV TALA-BINAGURI 1,2,3 (& 400kV MALBASE - BINAGURI) i.e. BINAGURI RECEIPT (from TALA HEP 6*170MW)	1079	1060	1075	25.8
	ER	220kV CHUKHA-BIRPARA 1&2 (& 220kV MALBASE - BIRPARA) i.e. BIRPARA RECEIPT (from CHUKHA HEP 4*84MW)	349	0	321	7.7
	NER	132KV-GEYLEGPHU - SALAKATI	-56	-43	-49	-1.2
	NER	132kV Motanga-Rangla	-68	-46	-55	-1.3
NEPAL	NR	132KV-TANAKPUR(NH) - MAHENDRANAGAR(PG)	-37	0	-18	-0.4
	ER	132KV-BIHAR - NEPAL	-65	-5	-21	-0.5
	ER	220KV-MUZAFFARPUR - DHALKEBAR DC	-180	-2	-69	-1.7
	ER	BHERAMARA HVDC(BANGLADESH)	-943	0	-938	-22.5

BANGLADESH	NER	132KV-SURAJMANI NAGAR - COMILLA(BANGLADESH)-1	88	0	-78	-1.9
	NER	132KV-SURAJMANI NAGAR - COMILLA(BANGLADESH)-2	88	0	-78	-1.9