



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: 18th 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 17.09.2020.

महोदय/Dear Sir,

आईईजीसी-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 17-सितंबर-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 17th 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:

18-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)	65951	46542	35654	20993	2514	171654
Peak Shortage (MW)	170	0	0	0	5	175
Energy Met (MU)	1479	1075	809	462	47	3872
Hydro Gen (MU)	322	94	119	140	25	698
Wind Gen (MU)	13	39	147	-	-	198
Solar Gen (MU)*	38.81	23.31	78.70	4.49	0.07	145
Energy Shortage (MU)	0.0	0.0	0.0	0.0	0.0	0.0
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	66824	46744	37070	22092	2634	172365
Time Of Maximum Demand Met (From NLDC SCADA)	22:18	19:11	18:42	00:04	18:19	19:36

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	0.65	0.65	82.63	16.72

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	11886	0	272.1	151.1	-1.7	58	0.0
	Haryana	9780	0	218.1	149.5	0.7	201	0.0
	Rajasthan	11693	0	263.7	85.0	-2.1	366	0.0
	Delhi	6040	0	124.6	109.0	0.0	216	0.0
	UP	23566	50	473.7	228.3	-0.2	559	0.0
	Uttarakhand	1883	0	40.4	19.0	0.8	143	0.0
	HP	1426	0	31.7	4.4	-0.3	120	0.0
	J&K(UT) & Ladakh(UT)	2469	0	47.9	26.5	-0.1	149	0.0
Chandigarh	317	0	6.3	6.3	0.0	19	0.0	
WR	Chhattisgarh	4265	0	99.3	41.3	-1.2	210	0.0
	Gujarat	13540	0	304.2	92.3	-0.2	613	0.0
	MP	9744	0	225.1	107.2	-1.9	575	0.0
	Maharashtra	18274	0	395.7	143.0	-3.9	666	0.0
	Goa	404	0	8.8	8.5	-0.2	38	0.0
	DD	301	0	6.9	6.9	0.0	28	0.0
	DNH	737	0	17.3	17.5	-0.2	31	0.0
	AMNSIL	768	0	17.2	2.9	0.1	214	0.0
SR	Andhra Pradesh	7170	0	157.3	44.7	-0.4	487	0.0
	Telangana	7024	0	143.0	53.7	0.2	658	0.0
	Karnataka	7549	0	149.8	54.6	1.8	599	0.0
	Kerala	3120	0	64.3	38.8	0.6	170	0.0
	Tamil Nadu	13002	0	286.5	137.8	-2.9	317	0.0
	Puducherry	365	0	7.7	8.0	-0.3	31	0.0
ER	Bihar	5636	0	114.0	108.8	-0.7	182	0.0
	DVC	3001	0	59.8	-46.4	-0.3	334	0.0
	Jharkhand	1528	0	29.2	22.5	-1.7	170	0.0
	Odisha	4572	0	96.7	22.1	-0.4	422	0.0
	West Bengal	7936	0	161.6	49.7	0.1	454	0.0
	Sikkim	86	0	1.2	1.3	-0.2	28	0.0
NER	Arunachal Pradesh	107	1	2.1	2.3	-0.2	18	0.0
	Assam	1561	20	28.1	24.0	-0.0	129	0.0
	Manipur	201	1	2.7	2.6	0.1	33	0.0
	Meghalaya	325	0	5.4	1.5	-0.3	23	0.0
	Mizoram	89	1	1.8	1.0	0.4	20	0.0
	Nagaland	119	2	2.1	2.5	-0.6	6	0.0
	Tripura	285	2	5.0	6.1	-0.2	28	0.0

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

	Bhutan	Nepal	Bangladesh
Actual (MU)	54.1	-0.6	-25.1
Day Peak (MW)	2331.0	-116.0	-1118.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	355.9	-317.3	73.7	-108.0	-4.3	0.0
Actual(MU)	362.2	-320.7	66.1	-105.7	-6.5	-4.5
O/D/U/D(MU)	6.3	-3.4	-7.6	2.3	-2.2	-4.5

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL
Central Sector	3811	14468	12162	2445	525	33412
State Sector	6359	18432	17432	5477	11	47711
Total	10170	32900	29594	7922	536	81123

G. Sourcewise generation (MU)

	NR	WR	SR	ER	NER	All India
Coal	658	1085	269	442	7	2461
Lignite	29	12	25	0	0	66
Hydro	322	94	119	140	25	698
Nuclear	26	21	69	0	0	116
Gas, Naptha & Diesel	33	81	16	0	28	158
RES (Wind, Solar, Biomass & Others)	67	63	258	5	0	392
Total	1135	1354	755	587	60	3891

Share of RES in total generation (%)	5.86	4.62	34.17	0.77	0.12	10.07
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	36.52	13.06	58.98	24.62	41.59	30.99

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.017
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.

INTER-REGIONAL EXCHANGES

Import=(+ve) /Export =(-ve) for NET (MU)

Date of Reporting: 18-Sep-2020

SI 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	23.4	-23.4	
2	HVDC	PUSAULI B/B	-	0	0	0.0	7.3	-7.3	
3	765 kV	GAYA-VARANASI	2	0	560	0.0	8.7	-8.7	
4	765 kV	SASARAM-FATEHPUR	1	0	0	2.4	0.0	2.4	
5	765 kV	GAYA-BALIA	1	0	0	0.0	10.5	-10.5	
6	400 kV	PUSAULI-VARANASI	1	0	0	0.0	5.3	-5.3	
7	400 kV	PUSAULI -ALLAHABAD	1	0	0	0.0	1.7	-1.7	
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	0	854	0.0	16.0	-16.0	
9	400 kV	PATNA-BALIA	4	0	1058	0.0	20.6	-20.6	
10	400 kV	BIHARSHARIFF-BALIA	2	0	463	0.0	8.7	-8.7	
11	400 kV	MOTIHARI-GORAKHPUR	2	0	322	0.0	5.3	-5.3	
12	400 kV	BIHARSHARIFF-VARANASI	2	52	151	0.0	1.3	-1.3	
13	220 kV	PUSAULI-SAHUPURI	1	0	0	0.0	1.6	-1.6	
14	132 kV	SONE NAGAR-RIHAND	1	0	0	0.0	0.0	0.0	
15	132 kV	GARWAH-RIHAND	1	0	0	0.5	0.0	0.5	
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	2.9	110.2	-107.3
Import/Export of ER (With WR)									
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	592	0	8.6	0.0	8.6	
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	1317	0	19.0	0.0	19.0	
3	765 kV	JHARSUGUDA-DURG	2	142	78	0.7	0.0	0.7	
4	400 kV	JHARSUGUDA-RAIGARH	4	234	10	2.2	0.0	2.2	
5	400 kV	RANCHI-SIPAT	2	447	0	10.3	0.0	10.3	
6	220 kV	BUDHIPADAR-RAIGARH	1	0	0	0.0	2.2	-2.2	
7	220 kV	BUDHIPADAR-KORBA	2	174	0	2.9	0.0	2.9	
						ER-WR	43.7	2.2	41.5
Import/Export of ER (With SR)									
1	HVDC	JEYPORE-GAZUWAKA B/B	2	0	379	0.0	8.6	-8.6	
2	HVDC	TALCHER-KOLAR BIPOLE	2	0	1342	0.0	27.9	-27.9	
3	765 kV	ANGUL-SRIKAKULAM	2	0	2121	0.0	34.3	-34.3	
4	400 kV	TALCHER-I/C	2	398	214	2.7	0.0	2.7	
5	220 kV	BALIMELA-UPPER-SILERRU	1	0	0	0.0	0.0	0.0	
						ER-SR	0.0	70.9	-70.9
Import/Export of ER (With NER)									
1	400 kV	BINAGURI-BONGAIGAON	2	30	268	0.0	2.0	-2.0	
2	400 kV	ALIPURDUAR-BONGAIGAON	2	140	306	0.0	1.4	-1.4	
3	220 kV	ALIPURDUAR-SALAKATI	2	0	93	0.0	1.1	-1.1	
						ER-NER	0.0	4.5	-4.5
Import/Export of NER (With NR)									
1	HVDC	BISWANATH CHARIALI-AGRA	2	0	553	0.0	13.3	-13.3	
						NER-NR	0.0	13.3	-13.3

Import/Export of WR (With NR)								
1	HVDC	CHAMPA-KURUKSHETRA	2	0	1755	0.0	68.7	-68.7
2	HVDC	VINDHYACHAL B/B	-	450	104	10.6	0.3	10.3
3	HVDC	MUNDRA-MOHINDERGARH	2	0	1922	0.0	48.4	-48.4
4	765 kV	GWALIOR-AGRA	2	0	2690	0.0	51.0	-51.0
5	765 kV	PHAGI-GWALIOR	2	0	1081	0.0	20.8	-20.8
6	765 kV	JABALPUR-ORAI	2	0	1074	0.0	43.0	-43.0
7	765 kV	GWALIOR-ORAI	1	395	0	8.1	0.0	8.1
8	765 kV	SATNA-ORAI	1	0	1583	0.0	33.0	-33.0
9	765 kV	CHITORGARH-BANASKANTHA	2	0	1017	0.0	13.7	-13.7
10	400 kV	ZERDA-KANKROLI	1	48	141	0.0	1.2	-1.2
11	400 kV	ZERDA -BHINMAL	1	56	195	0.0	1.5	-1.5
12	400 kV	VINDHYACHAL -RIHAND	1	961	0	22.2	0.0	22.2
13	400 kV	RAPP-SHUJALPUR	2	0	445	0.0	6.8	-6.8
14	220 kV	BHANPURA-RANPUR	1	0	110	0.0	2.0	-2.0
15	220 kV	BHANPURA-MORAK	1	11	0	0.0	1.7	-1.7
16	220 kV	MEHGAON-AURAIYA	1	60	0	0.2	0.1	0.1
17	220 kV	MALANPUR-AURAIYA	1	43	30	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						42.2	292.0	-249.8

Import/Export of WR (With SR)								
1	HVDC	BHADRAWATI B/B	-	297	417	1.9	6.5	-4.6
2	HVDC	RAIGARH-PUGALUR	2	0	0	0.0	16.1	-16.1
3	765 kV	SOLAPUR-RAICHUR	2	1144	1460	0.0	1.8	-1.8
4	765 kV	WARDHA-NIZAMABAD	2	0	1730	0.0	20.9	-20.9
5	400 kV	KOLHAPUR-KUDGI	2	821	0	14.2	0.0	14.2
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	80	1.4	0.0	1.4
WR-SR						17.5	45.3	-27.8

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)	771	0	738	17.7
	ER	400kV TALA-BINAGURI 1,2,4 (& 400kV MALBASE - BINAGURI) i.e. BINAGURI RECEIPT (from TALA HEP (6*170MW)	1078	1072	1078	26.3
	ER	220kV CHUKHA-BIRPARA 1&2 (& 220kV MALBASE - BIRPARA) i.e. BIRPARA RECEIPT (from CHUKHA HEP 4*84MW)	369	0	318	7.6
	NER	132KV-GEYLEGPHU - SALAKATI	55	47	-49	-1.2
	NER	132kV Motanga-Rangia	58	50	-55	-1.3
NEPAL	NR	132KV-TANAKPUR(NH) - MAHENDRANAGAR(PG)	-16	0	-2	-0.0
	ER	132KV-BIHAR - NEPAL	-40	-0	-16	-0.4
	ER	220KV-MUZAFFARPUR - DHALKEBAR DC	-60	40	-9	-0.2
BANGLADESH	ER	BHERAMARA HVDC(BANGLADESH)	-942	-820	-890	-21.4
	NER	132KV-SURAJMANI NAGAR - COMILLA(BANGLADESH)-1	88	0	-78	-1.9
	NER	132KV-SURAJMANI NAGAR - COMILLA(BANGLADESH)-2	88	0	-78	-1.9