



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: 15th 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 14.09.2020.

महोदय/Dear Sir,

आईंईंजींसीं-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 14-सितंबर-2020 की अखिल भारतीय प्रणाली की दैनिक ग्रिड निष्पादन रिपोर्ट रांभांप्रेंकें 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 14th September 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: 15-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)	65292	46250	34711	22962	2645	171860
Peak Shortage (MW)	440	0	0	0	15	455
Energy Met (MU)	1465	1070	754	485	49	3823
Hydro Gen (MU)	331	96	122	137	22	708
Wind Gen (MU)	7	40	142	-	-	188
Solar Gen (MU)*	34.92	23.03	47.58	4.55	0.06	110
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)	66679	46670	35546	23978	2727	172499
Time Of Maximum Demand Met (From NLDC SCADA)	22:26	19:03	18:47	22:51	18:27	19:18

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	0.025	0.00	0.00	4.61	4.61	82.41	12.99

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	11723	0	266.8	148.3	-2.3	6	0.0
	Haryana	9797	0	216.3	147.7	0.5	206	0.0
	Rajasthan	11903	0	260.0	91.7	1.7	562	0.0
	Delhi	5762	0	120.5	106.8	0.4	179	0.0
	UP	23433	0	474.4	220.8	0.8	526	0.7
	Uttarakhand	1954	0	42.4	20.6	0.6	108	0.0
	HP	1430	0	31.9	1.9	-0.2	84	0.0
	J&K(UT) & Ladakh(UT)	2292	0	47.0	26.5	-1.1	85	0.0
	Chandigarh	304	0	6.1	6.2	-0.1	29	0.0
WR	Chhattisgarh	4204	0	99.1	42.6	-1.2	245	0.0
	Gujarat	14033	0	302.1	100.8	0.5	542	0.0
	MP	9677	0	221.7	112.0	-2.9	305	0.0
	Maharashtra	18125	0	395.9	151.7	-2.0	524	0.0
	Goa	447	0	9.0	8.7	-0.2	60	0.0
	DD	313	0	6.8	6.8	0.0	18	0.0
	DNH	766	0	17.6	17.7	-0.1	35	0.0
	AMNSIL	810	0	17.6	3.1	0.0	266	0.0
	Andhra Pradesh	6927	0	143.6	35.8	0.9	1089	0.0
SR	Telangana	6830	0	143.0	52.5	-1.4	476	0.0
	Karnataka	7259	0	141.3	52.9	-2.3	588	0.0
	Kerala	3107	0	61.3	37.7	-0.3	257	0.0
	Tamil Nadu	12384	0	257.2	118.7	-3.0	496	0.0
	Puducherry	373	0	7.6	7.9	-0.4	28	0.0
ER	Bihar	5962	0	119.2	107.7	4.9	260	0.0
	DVC	3110	0	67.7	-42.2	0.4	429	0.0
	Jharkhand	1692	0	30.3	21.7	1.2	177	0.0
	Odisha	4505	0	90.4	23.3	-0.3	268	0.0
	West Bengal	8949	0	176.6	63.8	2.5	867	0.0
	Sikkim	90	0	1.2	1.3	-0.2	14	0.0
	Assam	108	1	2.0	2.1	0.0	36	0.0
NER	Assam	1677	0	30.7	26.3	0.4	145	0.0
	Manipur	206	0	2.5	2.5	0.0	44	0.0
	Meghalaya	316	0	5.5	1.3	-0.3	26	0.0
	Mizoram	89	2	1.6	1.1	0.2	22	0.0
	Nagaland	125	2	2.2	2.4	-0.5	9	0.0
	Tripura	278	3	4.7	6.1	-0.2	27	0.0

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

	Bhutan	Nepal	Bangladesh
Actual (MU)	53.5	-2.2	-26.2
Day Peak (MW)	2316.0	-286.7	-1123.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	350.6	-310.1	49.9	-89.5	-0.4	0.4
Actual(MU)	357.5	-318.6	33.1	-74.8	-1.3	-4.0
OD/UD(MU)	7.0	-8.5	-16.8	14.7	-0.9	-4.5

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL
Central Sector	3791	12788	11502	2445	675	31202
State Sector	5404	18508	16842	6835	11	47600
Total	9195	31296	28344	9280	686	78802

G. Sourcewise generation (MU)

	NR	WR	SR	ER	NER	All India
Coal	653	1124	280	437	8	2501
Lignite	31	10	25	0	0	65
Hydro	331	96	122	137	22	708
Nuclear	26	21	69	0	0	116
Gas, Naptha & Diesel	29	63	16	0	26	135
RES (Wind, Solar, Biomass & Others)	59	63	219	5	0	346
Total	1129	1377	731	578	56	3871
Share of RES in total generation (%)	5.22	4.60	30.02	0.79	0.11	8.95
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	36.84	13.09	56.17	24.41	38.77	30.22

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.018
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: 15-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	999	0.0	24.5	-24.5
2	HVDC	PUSAULI B/B	-	0	297	0.0	7.0	-7.0
3	765 kV	GAYA-VARANASI	2	0	411	0.0	5.7	-5.7
4	765 kV	SASARAM-FATEHPUR	1	248	128	3.7	0.0	3.7
5	765 kV	GAYA-BALLIA	1	0	624	0.0	9.6	-9.6
6	400 kV	PUSAULI-VARANASI	1	0	279	0.0	5.8	-5.8
7	400 kV	PUSAULI-ALLAHABAD	1	0	87	0.0	1.2	-1.2
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	0	716	0.0	12.3	-12.3
9	400 kV	PATNA-BALLIA	4	0	1044	0.0	15.3	-15.3
10	400 kV	BIHARSHARIF-BALLIA	2	0	478	0.0	6.5	-6.5
11	400 kV	MOTIHAR-GORAKHPUR	2	0	302	0.0	5.0	-5.0
12	400 kV	BIHARSHARIF-VARANASI	2	144	51	1.5	0.0	1.5
13	220 kV	PUSAULI-SAHUPURI	1	0	0	0.0	0.0	0.0
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						5.5	92.8	-87.4
Import/Export of ER (With WR)								
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	887	10	6.8	0.0	6.8
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	1886	0	25.1	0.0	25.1
3	765 kV	JHARSUGUDA-DURG	2	264	75	1.1	0.0	1.1
4	400 kV	JHARSUGUDA-RAIGARH	4	390	35	3.3	0.0	3.3
5	400 kV	RANCHI-SIPAT	2	654	2	10.4	0.0	10.4
6	220 kV	BUDHIPADAR-RAIGARH	1	30	90	0.0	0.9	-0.9
7	220 kV	BUDHIPADAR-KORBA	2	234	0	3.8	0.0	3.8
ER-WR						50.5	0.9	49.6
Import/Export of ER (With SR)								
1	HVDC	JEPPORE-GAZIWAKA B/B	2	0	379	0.0	8.7	-8.7
2	HVDC	TALCHER-KOLAR BIPOLE	2	0	1637	0.0	25.0	-25.0
3	765 kV	ANGUL-SRIKAKULAM	2	0	1855	0.0	25.2	-25.2
4	400 kV	TALCHER-UC	2	746	554	2.3	0.0	2.3
5	220 kV	BALIMELA-UPPER-SILERRU	1	1	0	0.0	0.0	0.0
ER-SR						0.0	58.8	-58.8
Import/Export of ER (With NER)								
1	400 kV	BINAGURI-BONGAIGAON	2	0	340	0.0	4.0	-4.0
2	400 kV	ALIPURDUAR-BONGAIGAON	2	0	398	0.0	4.3	-4.3
3	220 kV	ALIPURDUAR-SALAKATI	2	0	108	0.0	1.7	-1.7
ER-NER						0.0	9.9	-9.9
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	2000	0.0	75.5	-75.5
2	HVDC	VINDHYACHAL B/B	-	359	103	3.8	0.1	3.7
3	HVDC	MUNDRA-MOHINDERGARH	2	0	1918	0.0	35.1	-35.1
4	765 kV	GWALIOR-AGRA	2	0	3024	0.0	56.6	-56.6
5	765 kV	PHAGL-GWALIOR	2	0	1199	0.0	23.5	-23.5
6	765 kV	JABALPUR-ORAI	2	0	1172	0.0	43.7	-43.7
7	765 kV	GWALIOR-ORAI	1	432	0	9.1	0.0	9.1
8	765 kV	SATNA-ORAI	1	0	1638	0.0	34.3	-34.3
9	765 kV	CHITORGARH-BANASKANTHA	2	0	1125	0.0	15.4	-15.4
10	400 kV	ZERDA-KANKROLI	1	2	189	0.0	2.1	-2.1
11	400 kV	ZERDA-BHINMAL	1	0	273	0.0	3.0	-3.0
12	400 kV	VINDHYACHAL-BIHAND	1	950	0	22.3	0.0	22.3
13	400 kV	RAPP-SHUJALPUR	2	0	546	0.0	8.4	-8.4
14	220 kV	BHANPURA-RANPUR	1	11	0	0.0	1.7	-1.7
15	220 kV	BHANPURA-MORAK	1	0	123	0.0	2.2	-2.2
16	220 kV	MEHGAON-AURAIYA	1	91	12	0.1	0.3	-0.2
17	220 kV	MALANPUR-AURAIYA	1	44	51	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						36.2	301.7	-265.5
Import/Export of WR (With SR)								
1	HVDC	BHADRAWATI B/B	-	0	356	0.0	8.4	-8.4
2	HVDC	RAIGARH-PUGALUR	2	0	150	0.0	3.3	-3.3
3	765 kV	SOLAPUR-RAICHUR	2	1483	993	10.1	0.0	10.1
4	765 kV	WARDHA-NIZAMABAD	2	202	1711	0.0	17.1	-17.1
5	400 kV	KOLHAPUR-KUDGI	2	764	0	14.0	0.0	14.0
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	73	1.3	0.0	1.3
WR-SR						25.4	28.8	-3.4

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)	776	0	749	18.0
	ER	400KV TALA-BINAGURI 1,2,3 (& 400KV MALBASE - BINAGURI) i.e. BINAGURI RECEIPT (from TALA HEP 6*170MW)	1069	0	1053	25.3
	ER	220KV CHUKHA-BIRPARA 1&2 (& 220KV MALBASE - BIRPARA) i.e. BIRPARA RECEIPT (from CHUKHA HEP 4*84MW)	349	0	319	7.7
	NER	132KV-GEYLEGPHU - SALAKATI	56	44	-50	-1.2
	NER	132KV Motanga-Rangla	66	49	-56	-1.4
NEPAL	NR	132KV-TANAKPUR(NH) - MAHENDRANAGAR(PG)	-54	0	-24	-0.6
	ER	132KV-BIHAR - NEPAL	-41	0	-8	-0.2
	ER	220KV-MUZAFFARPUR - DHALKEBAR DC	-192	20	-60	-1.4
	ER	BHERAMARA HVDC(BANGLADESH)	-947	0	-939	-22.5

BANGLADESH	NER	132KV-SURAJMANI NAGAR - COMILLA(BANGLADESH)-1	88	0	-77	-1.9
	NER	132KV-SURAJMANI NAGAR - COMILLA(BANGLADESH)-2	88	0	-77	-1.9