



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: 24th 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 23.09.2020.

महोदय/Dear Sir,

आईईजीसी-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 23-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 23rd 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: 24-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)	61406	44572	37977	20431	2585	166971
Peak Shortage (MW)	7	0	0	0	242	249
Energy Met (MU)	1372	1017	856	431	50	3725
Hydro Gen (MU)	308	105	143	134	29	719
Wind Gen (MU)	4	78	180	-	-	262
Solar Gen (MU)*	31.63	19.04	88.12	3.50	0.09	142
Energy Shortage (MU)	0.1	0.0	0.0	0.0	5.0	5.1
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	62523	44762	39662	21372	2648	169570
Time Of Maximum Demand Met (From NLDC SCADA)	00:00	18:57	19:17	18:51	19:04	19:23

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	0.021	0.00	0.00	3.83	3.83	87.19	8.98

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	11264	0	256.0	144.7	-1.9	0	0.0
	Haryana	9141	0	203.2	148.2	1.3	192	0.0
	Rajasthan	12197	0	267.7	86.6	2.7	419	0.0
	Delhi	5895	0	122.2	107.3	-0.2	197	0.0
	UP	20371	0	395.2	185.9	-3.1	363	0.1
	Uttarakhand	1953	0	41.1	22.3	-0.6	205	0.0
	HP	1431	8	31.4	6.3	-1.3	0	0.0
	J&K(UT) & Ladakh(UT)	2386	0	49.4	25.0	2.1	323	0.0
	Chandigarh	294	0	5.9	6.0	-0.1	14	0.0
	Chhattisgarh	3499	0	81.1	18.7	-0.9	193	0.0
WR	Gujarat	13899	0	311.8	82.7	0.8	723	0.0
	MP	8836	0	196.1	96.7	-4.1	662	0.0
	Maharashtra	17432	0	375.9	126.9	-0.4	658	0.0
	Goa	522	0	9.7	9.3	0.0	42	0.0
	DD	334	0	7.3	7.3	0.0	19	0.0
	DNH	787	0	17.3	17.9	-0.6	33	0.0
	AMNSIL	769	0	17.6	2.3	0.5	236	0.0
SR	Andhra Pradesh	7662	0	165.9	45.4	0.8	795	0.0
	Telangana	7848	0	157.7	68.2	0.1	427	0.0
	Karnataka	7757	0	151.9	28.7	-1.4	640	0.0
	Kerala	3199	0	64.1	34.2	-0.4	169	0.0
	Tamil Nadu	13768	0	307.9	149.9	0.0	844	0.0
	Puducherry	423	0	8.4	8.4	0.1	50	0.0
ER	Bihar	4332	0	85.4	83.1	-1.8	437	0.0
	DVC	3089	0	64.3	-44.9	0.5	464	0.0
	Jharkhand	1674	0	27.5	20.7	0.2	487	0.0
	Odisha	4962	0	96.7	20.8	-0.2	403	0.0
	West Bengal	7646	0	155.8	53.9	1.8	495	0.0
Sikkim	93	0	1.2	1.3	-0.1	12	0.0	
NER	Arunachal Pradesh	118	1	2.1	2.3	-0.2	10	0.0
	Assam	1680	12	30.8	26.3	0.3	155	5.0
	Manipur	168	0	2.6	2.3	0.3	39	0.0
	Meghalaya	323	0	5.9	0.6	-0.2	72	0.0
	Mizoram	88	1	1.7	1.4	-0.1	24	0.0
	Nagaland	124	2	2.4	2.3	-0.1	13	0.0
	Tripura	256	4	4.4	6.3	0.1	63	0.0

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

	Bhutan	Nepal	Bangladesh
Actual (MU)	49.3	-0.8	-26.2
Day Peak (MW)	2396.0	-172.7	-1111.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	354.0	-313.4	77.0	-113.7	-3.9	0.0
Actual(MU)	359.6	-326.0	76.1	-113.9	-4.4	-8.6
O/D/U/D(MU)	5.6	-12.6	-0.9	-0.2	-0.5	-8.6

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL
Central Sector	4810	16006	12752	1925	525	36018
State Sector	7659	19685	17822	5955	112	51233
Total	12469	35691	30574	7880	637	87250

G. Sourcewise generation (MU)

	NR	WR	SR	ER	NER	All India
Coal	603	1021	243	430	7	2304
Lignite	28	12	21	0	0	61
Hydro	308	105	143	134	29	719
Nuclear	26	20	69	0	0	116
Gas, Naptha & Diesel	23	69	15	0	23	130
RES (Wind, Solar, Biomass & Others)	51	97	298	4	0	450
Total	1039	1324	789	567	60	3779
Share of RES in total generation (%)	4.87	7.35	37.79	0.62	0.15	11.90
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	37.01	16.82	64.68	24.27	49.38	34.00

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.008
Based on State Max Demands	1.039

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: 24-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	23.7	-23.7	
2	HVDC	PUSAULI B/B	-	0	297	0.0	7.2	-7.2	
3	765 kV	GAYA-VARANASI	2	0	601	0.0	10.0	-10.0	
4	765 kV	SASARAM-FATEHPUR	1	128	128	0.6	0.0	0.6	
5	765 kV	GAYA-BALIA	1	0	508	0.0	9.8	-9.8	
6	400 kV	PUSAULI-VARANASI	1	0	249	0.0	4.9	-4.9	
7	400 kV	PUSAULI-ALLAHABAD	1	0	136	0.0	2.2	-2.2	
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	0	745	0.0	14.7	-14.7	
9	400 kV	PATNA-BALIA	4	0	1059	0.0	19.6	-19.6	
10	400 kV	BIHARSHARIF-BALIA	2	0	441	0.0	8.9	-8.9	
11	400 kV	MOTIHARI-GORAKHPUR	2	0	321	0.0	4.9	-4.9	
12	400 kV	BIHARSHARIF-VARANASI	2	7	204	0.0	2.2	-2.2	
13	220 kV	PUSAULI-SAHUPURI	1	0	121	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	30	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-CHANDALI	1	0	0	0.0	0.0	0.0	
						ER-NR	1.2	110.2	-109.0
Import/Export of ER (With WR)									
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	1314	0	13.4	0.0	13.4	
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	1150	0	18.1	0.0	18.1	
3	765 kV	JHARSUGUDA-DURG	2	238	1	2.5	0.0	2.5	
4	400 kV	JHARSUGUDA-RAIGARH	4	323	0	4.5	0.0	4.5	
5	400 kV	RANCHI-SIPAT	2	520	0	8.7	0.0	8.7	
6	220 kV	BUDHIPADAR-RAIGARH	1	0	104	0.0	1.3	-1.3	
7	220 kV	BUDHIPADAR-KORBA	2	219	0	3.7	0.0	3.7	
						ER-WR	50.8	1.3	49.6
Import/Export of ER (With SR)									
1	HVDC	JEYPORE-GAZUWAKA B/B	2	0	591	0.0	13.7	-13.7	
2	HVDC	TALCHER-KOLAR BIPOLE	2	0	1637	0.0	26.8	-26.8	
3	765 kV	ANGUL-SRIKAKULAM	2	0	2933	0.0	42.2	-42.2	
4	400 kV	TALCHER-I/C	2	1040	195	4.6	0.0	4.6	
5	220 kV	BALIMELA-UPPER-SILERRU	1	1	0	0.0	0.0	0.0	
						ER-SR	0.0	82.6	-82.6
Import/Export of ER (With NER)									
1	400 kV	BINAGURI-BONGAIGAON	2	0	365	0.0	3.9	-3.9	
2	400 kV	ALIPURDUAR-BONGAIGAON	2	108	394	0.0	2.7	-2.7	
3	220 kV	ALIPURDUAR-SALAKATI	2	0	111	0.0	1.4	-1.4	
						ER-NER	0.0	7.9	-7.9
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	1499	0.0	51.4	-51.4	
2	HVDC	VINDHYACHAL B/B	-	271	205	3.9	0.0	3.9	
3	HVDC	MUNDRA-MOHINDERGARH	2	0	1547	0.0	29.8	-29.8	
4	765 kV	GWALIOR-AGRA	2	0	2929	0.0	54.3	-54.3	
5	765 kV	PHAGI-GWALIOR	2	0	1094	0.0	20.7	-20.7	
6	765 kV	JABALPUR-ORAI	2	0	1008	0.0	36.9	-36.9	
7	765 kV	GWALIOR-ORAI	1	403	0	6.1	0.0	6.1	
8	765 kV	SATNA-ORAI	1	0	1683	0.0	33.3	-33.3	
9	765 kV	CHITORGARH-BANASKANTHA	2	0	1243	0.0	21.8	-21.8	
10	400 kV	ZERDA-KANKROLI	1	0	217	0.0	3.4	-3.4	
11	400 kV	ZERDA -BHINMAL	1	0	339	0.0	6.3	-6.3	
12	400 kV	VINDHYACHAL -RIHAND	1	858	0	11.2	0.0	11.2	
13	400 kV	RAPP-SHUJALPUR	2	0	493	0.0	8.9	-8.9	
14	220 kV	BHANPURA-RANPUR	1	0	143	0.0	2.1	-2.1	
15	220 kV	BHANPURA-MORAK	1	11	0	0.0	1.9	-1.9	
16	220 kV	MEHGAON-AURAIYA	1	106	7	0.2	0.2	0.0	
17	220 kV	MALANPUR-AURAIYA	1	55	36	1.0	0.0	1.0	
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	22.4	271.0	-248.6
Import/Export of WR (With SR)									
1	HVDC	BHADRAWATI B/B	-	0	1019	0.0	12.8	-12.8	
2	HVDC	RAIGARH-PUGALUR	2	476	447	0.0	2.2	-2.2	
3	765 kV	SOLAPUR-RAICHUR	2	1892	2255	0.0	2.8	-2.8	
4	765 kV	WARDHA-NIZAMABAD	2	0	2255	0.0	24.9	-24.9	
5	400 kV	KOLHAPUR-KUDGI	2	1205	5	14.6	0.0	14.6	
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	XELDAM-AMBEWADI	1	1	72	0.9	0.0	0.9	
						WR-SR	15.5	42.8	-27.3

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 MANGDECHU HEP 4*180MW)	584	0	556	13.3
	ER	400kV TALA-BINAGURI 1,2,4 (& 400kV MALBASE - BINAGURI) i.e. BINAGURI RECEIPT (from TALA HEP (6*170MW))	1345	1058	1065	25.6
	ER	220kV CHUKHA-BIRPARA 1&2 (& 220kV MALBASE - BIRPARA) i.e. BIRPARA RECEIPT (from CHUKHA HEP 4*84MW)	349	0	328	7.9
	NER	132KV-GEVLEGGHU - SALAKATI	57	0	-53	-1.3
	NER	132kV Motanga-Rangia	61	0	-53	-1.3
NEPAL	NR	132KV-TANAKPUR(NH) - MAHENDRANAGAR(PG)	-32	0	-4	-0.1
	ER	132KV-BIHAR - NEPAL	-27	0	-4	-0.1
	ER	220KV-MUZAFFARPUR - DHALKEBAR DC	-114	-6	-27	-0.7

BANGLADESH	ER	BHERAMARA HVDC(BANGLADESH)	-949	-933	-949	-22.8
	NER	132KV-SURAJMANI NAGAR - COMILLA(BANGLADESH)-1	81	0	-70	-1.7
	NER	132KV-SURAJMANI NAGAR - COMILLA(BANGLADESH)-2	81	0	-70	-1.7