



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: 29th 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 28.09.2020.

महोदय/Dear Sir,

आई०ई०जी०सी०-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 28-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 28th 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: 29-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)	59802	46324	36739	22346	2815	168026
Peak Shortage (MW)	300	0	0	0	168	468
Energy Met (MU)	1284	1089	842	466	51	3732
Hydro Gen (MU)	240	103	137	145	27	652
Wind Gen (MU)	10	32	65	-	-	107
Solar Gen (MU)*	40.61	29.70	102.74	4.57	0.09	178
Energy Shortage (MU)	1.5	0.0	0.0	0.0	3.7	5.1
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	59826	46899	39300	22451	2941	168386
Time Of Maximum Demand Met (From NLDC SCADA)	19:46	11:09	15:03	20:05	18:15	19:58

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	0.039	0.21	1.98	5.42	7.60	88.32	4.07

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	10069	0	220.5	120.4	-1.7	194	0.0
	Haryana	8498	0	183.9	142.8	-0.2	179	0.0
	Rajasthan	11134	0	245.2	74.5	-2.8	315	0.0
	Delhi	4920	0	104.2	95.8	-0.2	234	0.0
	UP	21008	220	405.0	170.4	1.8	640	1.3
	Uttarakhand	1821	0	38.9	21.6	1.2	166	0.2
	HP	1448	13	29.5	9.9	1.8	216	0.0
	J&K(UT) & Ladakh(UT)	2452	0	52.5	25.5	5.4	593	0.0
WR	Chandigarh	237	0	4.8	5.0	-0.2	23	0.0
	Chhattisgarh	3870	0	92.1	27.1	0.7	311	0.0
	Gujarat	15265	0	336.3	91.2	1.4	458	0.0
	MP	9285	0	209.8	100.6	-1.6	669	0.0
	Maharashtra	18224	0	398.6	136.8	-2.7	399	0.0
	Goa	476	0	9.4	9.0	-0.1	85	0.0
	DD	321	0	7.0	7.0	0.0	36	0.0
	DNH	778	0	18.0	17.9	0.1	37	0.0
SR	AMNSIL	810	0	18.0	2.9	0.3	267	0.0
	Andhra Pradesh	7490	0	162.7	76.2	0.8	764	0.0
	Telangana	7533	0	152.3	42.2	-0.5	443	0.0
	Karnataka	8000	0	156.0	56.8	0.2	1015	0.0
	Kerala	3368	0	68.6	37.7	-0.6	226	0.0
	Tamil Nadu	14836	0	293.6	157.8	-3.6	476	0.0
	Puducherry	362	0	8.6	7.8	0.8	135	0.0
	ER	Bihar	5216	0	103.7	98.1	0.4	200
DVC		3036	0	65.1	-44.6	-0.2	210	0.0
Jharkhand		1807	0	29.2	21.3	-0.6	120	0.0
Odisha		4667	0	95.9	16.0	-1.2	300	0.0
West Bengal		8047	0	170.8	61.8	1.5	450	0.0
Sikkim		90	0	1.2	1.3	-0.2	15	0.0
NER	Arunachal Pradesh	118	1	2.2	2.1	0.1	19	0.0
	Assam	1839	98	31.7	27.6	0.5	181	3.6
	Manipur	197	1	2.6	2.5	-0.1	48	0.0
	Meghalaya	299	0	5.7	0.5	-0.4	27	0.0
	Mizoram	101	1	1.6	1.1	0.2	15	0.0
	Nagaland	146	1	2.3	2.4	-0.3	20	0.0
	Tripura	294	15	4.8	6.7	0.1	23	0.0

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

	Bhutan	Nepal	Bangladesh
Actual (MU)	51.6	-1.8	-25.9
Day Peak (MW)	2285.6	-259.3	-1075.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	342.3	-326.2	114.2	-124.5	-5.8	0.0
Actual(MU)	356.8	-336.0	107.1	-127.1	-6.2	-5.5
O/D/U/D(MU)	14.5	-9.8	-7.1	-2.6	-0.4	-5.5

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL
Central Sector	6185	16108	12212	1455	546	36506
State Sector	10184	17129	15837	6127	112	49389
Total	16369	33237	28049	7582	658	85895

G. Sourcewise generation (MU)

	NR	WR	SR	ER	NER	All India
Coal	582	1196	317	475	8	2578
Lignite	28	10	16	0	0	55
Hydro	239	103	137	145	27	652
Nuclear	27	21	69	0	0	116
Gas, Naptha & Diesel	14	49	16	0	27	105
RES (Wind, Solar, Biomass & Others)	62	62	197	5	0	326
Total	953	1441	751	625	62	3831
Share of RES in total generation (%)	6.55	4.31	26.26	0.73	0.14	8.52
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	34.45	12.87	53.61	23.97	44.17	28.54

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.018
Based on State Max Demands	1.057

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: 29-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	26.0	-26.0	
2	HVDC	PUSAULI B/B	-	0	299	0.0	7.3	-7.3	
3	765 kV	GAYA-VARANASI	2	0	595	0.0	11.1	-11.1	
4	765 kV	SASARAM-FATEHPUR	1	159	172	0.0	0.4	-0.4	
5	765 kV	GAYA-BALIA	1	0	475	0.0	8.5	-8.5	
6	400 kV	PUSAULI-VARANASI	1	0	220	0.0	4.5	-4.5	
7	400 kV	PUSAULI-ALLAHABAD	1	0	145	0.0	2.6	-2.6	
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	0	793	0.0	14.6	-14.6	
9	400 kV	PATNA-BALIA	4	0	866	0.0	17.7	-17.7	
10	400 kV	BIHARSHARIFF-BALIA	2	0	339	0.0	6.2	-6.2	
11	400 kV	MOTHARI-GORAKHPUR	2	0	22	0.0	5.8	-5.8	
12	400 kV	BIHARSHARIFF-VARANASI	2	18	204	0.0	2.5	-2.5	
13	220 kV	PUSAULI-SAHUPURI	1	0	133	0.0	2.2	-2.2	
14	132 kV	SONE NAGAR-RIHAND	1	0	0	0.0	0.0	0.0	
15	132 kV	GARWAH-RIHAND	1	20	0	0.6	0.0	0.6	
16	132 kV	KARMANASA-SAHUPURI	1	63	0	0.0	0.0	0.0	
17	132 kV	KARMANASA-CHANDALI	1	60	0	0.0	0.0	0.0	
						ER-NR	0.6	109.2	-108.7
Import/Export of ER (With WR)									
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	905	0	17.1	0.0	17.1	
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	1052	0	15.5	0.0	15.5	
3	765 kV	JHARSUGUDA-DURG	2	143	110	1.3	0.0	1.3	
4	400 kV	JHARSUGUDA-RAIGARH	4	297	0	4.2	0.0	4.2	
5	400 kV	RANCHI-SIPAT	2	392	0	6.9	0.0	6.9	
6	220 kV	BUDHIPADAR-RAIGARH	1	0	115	0.0	1.8	-1.8	
7	220 kV	BUDHIPADAR-KORBA	2	166	0	3.0	0.0	3.0	
						ER-WR	48.0	1.8	46.2
Import/Export of ER (With SR)									
1	HVDC	JEYPORE-GAZUWAKA B/B	2	0	609	0.0	13.6	-13.6	
2	HVDC	TALCHER-KOLAR BIPOLE	2	0	1639	0.0	39.7	-39.7	
3	765 kV	ANGUL-SRIKAKULAM	2	0	2585	0.0	50.2	-50.2	
4	400 kV	TALCHER-I/C	2	149	244	0.7	0.0	0.7	
5	220 kV	BALIMELA-UPPER-SILERRU	1	1	0	0.0	0.0	0.0	
						ER-SR	0.0	103.5	-103.5
Import/Export of ER (With NER)									
1	400 kV	BINAGURI-BONGAIGAOON	2	14	438	0.0	3.0	-3.0	
2	400 kV	ALIPURDUAR-BONGAIGAOON	2	165	498	0.0	1.7	-1.7	
3	220 kV	ALIPURDUAR-SALAKATI	2	0	136	0.0	1.6	-1.6	
						ER-NER	0.0	6.3	-6.3
Import/Export of NER (With NR)									
1	HVDC	BISWANATH CHARIALI-AGRA	2	0	604	0.0	14.7	-14.7	
						NER-NR	0.0	14.7	-14.7
Import/Export of WR (With NR)									
1	HVDC	CHAMPA-KURUKSHETRA	2	0	1499	0.0	58.2	-58.2	
2	HVDC	VINDHYACHAL B/B	-	93	105	2.0	0.4	1.6	
3	HVDC	MUNDRA-MOHINDERGARH	2	0	982	0.0	24.2	-24.2	
4	765 kV	GWALIOR-AGRA	2	0	2855	0.0	54.3	-54.3	
5	765 kV	PHAGI-GWALIOR	2	0	1271	0.0	25.3	-25.3	
6	765 kV	JABALPUR-ORAI	2	0	1128	0.0	43.1	-43.1	
7	765 kV	GWALIOR-ORAI	1	471	0	9.3	0.0	9.3	
8	765 kV	SATNA-ORAI	1	0	1586	0.0	34.0	-34.0	
9	765 kV	CHITORGARH-BANASKANTHA	2	0	1192	0.0	17.7	-17.7	
10	400 kV	ZERDA-KANKROLI	1	0	209	0.0	2.6	-2.6	
11	400 kV	ZERDA-BHINMAL	1	0	256	0.0	3.9	-3.9	
12	400 kV	VINDHYACHAL-RIHAND	1	972	0	22.7	0.0	22.7	
13	400 kV	RAPP-SHIVAJI	2	0	463	0.0	9.2	-9.2	
14	220 kV	BHANPURA-RANPUR	1	0	128	0.0	2.4	-2.4	
15	220 kV	BHANPURA-MORAK	1	11	0	0.0	2.3	-2.3	
16	220 kV	MEHGAON-AURAIYA	1	104	3	0.2	0.0	0.0	
17	220 kV	MALANPUR-AURAIYA	1	58	39	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	35.3	277.8	-242.5
Import/Export of WR (With SR)									
1	HVDC	BHADRAWATI B/B	-	0	1019	0.0	15.4	-15.4	
2	HVDC	RAIGARH-PTIGALUR	2	724	150	9.1	0.0	9.1	
3	765 kV	SOLAPUR-RAICHUR	2	84	1744	0.0	19.3	-19.3	
4	765 kV	WARDHA-NIZAMABAD	2	0	2078	0.0	32.6	-32.6	
5	400 kV	KOLHAPUR-KUDGI	2	636	0	10.1	0.0	10.1	
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	1	76	1.1	0.0	1.1	
						WR-SR	20.3	67.3	-46.9

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)	585	584	585	15.2
	ER	400kV TALA-BINAGURI 1,2,4 (& 400kV MALBASE - BINAGURI) i.e. BINAGURI RECEIPT (from TALA HEP (6*170MW)	1083	1080	1083	26.1
	ER	220kV CHUKHA-BIRPARA 1&2 (& 220kV MALBASE - BIRPARA) i.e. BIRPARA RECEIPT (from CHUKHA HEP 4*84MW)	353	0	328	7.9
	NER	132KV-GEYLEGPHU - SALAKATI	-55	-45	51	1.2
	NER	132kV Motanga-Rangia	-61	-42	-51	-1.2
NEPAL	NR	132KV-TANAKPUR(NH) - MAHENDRANAGAR(PG)	-52	0	-18	-0.4
	ER	132KV-BIHAR - NEPAL	-46	-1	-3	-0.1
	ER	220KV-MUZAFFARPUR - DHALKEBAR DC	-161	27	-56	-1.4

BANGLADESH	ER	BHERAMARA HVDC(BANGLADESH)	-937	0	-935	-22.4
	NER	132KV-SURAJMANI NAGAR - COMILLA(BANGLADESH)-1	69	0	-71	-1.7
	NER	132KV-SURAJMANI NAGAR - COMILLA(BANGLADESH)-2	69	0	-71	-1.7