



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: 12th September 2022

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., डोंगतेह, 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 11.09.2022.

महोदय/Dear Sir,

आईईजीसी-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 11-सितंबर-2022 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 11th Sep 2022, 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: 12-Sep-2022

A. Power Supply Position at All India and Regional level

	NR	WR	SR	ER	NER	TOTAL
Demand Met during Evening Peak hrs(MW) (at 20:00 hrs; from RLDCs)	68647	49697	36161	23497	3007	181009
Peak Shortage (MW)	600	0	0	0	0	600
Energy Met (MU)	1617	1186	799	516	59	4178
Hydro Gen (MU)	356	102	153	151	31	794
Wind Gen (MU)	11	37	231	-	-	280
Solar Gen (MU)*	108.04	41.96	73.42	4.41	0.96	229
Energy Shortage (MU)	5.90	0.00	0.00	0.46	0.00	6.36
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	72960	51365	36219	24323	2956	180954
Time Of Maximum Demand Met (From NLDC SCADA)	00:07	19:14	19:06	00:00	20:04	20:19

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	0.047	0.03	0.97	6.35	7.36	69.76	22.88

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	13693	0	299.5	182.7	-2.1	110	0.00
	Haryana	10889	0	232.7	166.6	-0.1	149	0.00
	Rajasthan	15000	0	309.7	120.3	-2.2	332	0.00
	Delhi	6272	0	125.2	113.7	-1.2	240	0.00
	UP	25656	0	522.1	258.0	-0.4	621	5.71
	Uttarakhand	2030	0	44.2	20.7	0.6	221	0.08
	HP	1519	0	31.1	-3.6	-0.2	110	0.11
	J&K(UT) & Ladakh(UT)	2531	0	46.5	23.9	-2.4	112	0.00
	Chandigarh	302	0	6.1	6.1	0.0	19	0.00
	WR	Chhattisgarh	4728	0	108.9	54.5	-0.1	337
Gujarat		15671	0	339.4	204.2	-1.4	773	0.00
MP		10611	0	239.4	125.1	0.0	417	0.00
Maharashtra		19781	0	446.2	168.1	-2.5	634	0.00
Goa		534	0	11.8	11.1	0.3	51	0.00
DNHDDPDCL		1153	0	27.0	27.1	0.0	60	0.00
AMNSIL		614	0	13.6	7.5	0.1	52	0.00
SR	Andhra Pradesh	7619	0	167.5	23.0	-3.4	492	0.00
	Telangana	7411	0	146.5	24.0	1.1	735	0.00
	Karnataka	6572	0	132.3	13.5	-4.6	413	0.00
	Kerala	3174	0	64.9	23.6	-0.6	190	0.00
	Tamil Nadu	12542	0	279.3	98.1	-5.2	762	0.00
	Puducherry	364	0	8.5	8.1	-0.3	43	0.00
	ER	Bihar	6267	0	124.8	117.0	-2.1	152
DVC		3329	0	72.7	-26.6	0.3	227	0.00
Jharkhand		1469	0	32.3	21.6	-0.9	168	0.19
Odisha		5833	0	122.6	39.0	1.4	389	0.00
West Bengal		8498	0	162.6	40.1	-0.9	361	0.00
NER	Sikkim	77	0	1.1	1.2	0.0	17	0.00
	Arunachal Pradesh	126	0	2.3	2.1	0.2	40	0.00
	Assam	2012	0	40.1	32.5	0.7	129	0.00
	Manipur	183	0	2.6	2.6	0.0	31	0.00
	Meghalaya	323	0	6.1	1.2	0.3	45	0.00
	Mizoram	88	0	1.3	0.6	-0.3	11	0.00
	Nagaland	136	0	2.4	2.2	-0.3	7	0.00
	Tripura	266	0	4.6	4.7	-0.2	35	0.00

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

	Bhutan	Nepal	Bangladesh
Actual (MU)	43.6	8.1	-25.1
Day Peak (MW)	2040.0	343.0	-1065.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	391.6	-119.2	-124.6	-138.7	-9.1	0.0
Actual(MU)	397.5	-116.7	-145.8	-132.3	-9.3	-6.6
O/D/U/D(MU)	5.9	2.5	-21.3	6.5	-0.2	-6.6

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL	% Share
Central Sector	3652	11691	6758	2870	309	25279	39
State Sector	5495	17353	13230	2900	178	39155	61
Total	9147	29044	19988	5770	486	64434	100

G. Sourcewise generation (MU)

	NR	WR	SR	ER	NER	All India	% Share
Coal	754	1098	377	522	14	2765	66
Lignite	30	7	50	0	0	87	2
Hydro	347	102	153	151	31	785	18
Nuclear	33	40	38	0	0	110	3
Gas, Naptha & Diesel	17	3	8	0	29	56	1
RES (Wind, Solar, Biomass & Others)	137	81	344	4	1	567	10
Total	1318	1329	970	678	75	4370	100
Share of RES in total generation (%)	10.37	6.06	35.51	0.65	1.28	12.97	
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	39.19	16.71	55.19	22.99	42.87	33.45	

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.038
Based on State Max Demands	1.090

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: 12-Sep-2022

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	1500	0.0	24.3	-24.3	
2	HVDC	PUSAULI B/B	2	0	348	0.0	8.4	-8.4	
3	765 kV	GAYA-VARANASI	2	152	588	0.0	5.4	-5.4	
4	765 kV	SASARAM-FATEHPUR	1	0	413	0.0	5.7	-5.7	
5	765 kV	GAYA-BALIA	1	0	796	0.0	14.7	-14.7	
6	400 kV	PUSAULI-VARANASI	1	0	204	0.0	4.1	-4.1	
7	400 kV	PUSAULI-ALLAHABAD	1	0	216	0.0	4.3	-4.3	
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	0	1183	0.0	21.9	-21.9	
9	400 kV	PATNA-BALIA	2	0	675	0.0	13.0	-13.0	
10	400 kV	NAUBATPUR-BALIA	2	0	719	0.0	13.6	-13.6	
11	400 kV	BIHARSHARIFF-BALIA	2	0	709	0.0	10.4	-10.4	
12	400 kV	MOTIHARI-GORAKHPUR	2	0	562	0.0	9.9	-9.9	
13	400 kV	BIHARSHARIFF-VARANASI	2	16	300	0.0	3.9	-3.9	
14	220 kV	SINPUR-KARMANASA	1	0	155	0.0	2.1	-2.1	
15	132 kV	NAGAR UNTARI-RIHAND	1	0	0	0.1	0.0	0.1	
16	132 kV	GARWAH-RIHAND	1	25	0	0	0.4	0.4	
17	132 kV	KARMANASA-SAHUPURI	1	0	0	0.0	0.0	0.0	
18	132 kV	KARMANASA-CHANDAULI	1	0	0	0.0	0.0	0.0	
						ER-NR	0.5	141.7	-141.2
Import/Export of ER (With WR)									
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	747	888	0.6	0.0	0.6	
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	1416	0	22.7	0.0	22.7	
3	765 kV	JHARSUGUDA-DURG	2	0	448	0.0	4.5	-4.5	
4	400 kV	JHARSUGUDA-RAIGARH	4	0	481	0.0	6.3	-6.3	
5	400 kV	RANCHI-SIPAT	2	252	39	3.6	0.0	3.6	
6	220 kV	BUDHIPADAR-RAIGARH	1	0	170	0.0	2.6	-2.6	
7	220 kV	BUDHIPADAR-KORBA	2	94	34	0.8	0.0	0.8	
						ER-WR	27.7	13.4	14.3
Import/Export of ER (With SR)									
1	HVDC	JEYPORE-GAZUWAKA B/B	2	699	0	14.9	0.0	14.9	
2	HVDC	TALCHER-KOLAR BIPOLE	2	0	1190	0.0	22.7	-22.7	
3	765 kV	ANGUL-SRIKAKULAM	2	0	2535	0.0	32.0	-32.0	
4	400 kV	TALCHER-I/C	2	1429	135	13.3	0.0	13.3	
5	220 kV	BALMELA-UPPER-SILERRU	1	2	0	0.0	0.0	0.0	
						ER-SR	14.9	54.7	-39.8
Import/Export of ER (With NER)									
1	400 kV	BINAGURI-BONGAIGAON	2	0	314	0.0	4.3	-4.3	
2	400 kV	ALIPURDUAR-BONGAIGAON	2	167	353	0.0	3.2	-3.2	
3	220 kV	ALIPURDUAR-SALAKATI	2	0	104	0.0	1.5	-1.5	
						ER-NER	0.0	9.0	-9.0
Import/Export of NER (With NR)									
1	HVDC	BISWANATH CHARIALI-AGRA	2	0	800	0.0	19.5	-19.5	
						NER-NR	0.0	19.5	-19.5
Import/Export of WR (With NR)									
1	HVDC	CHAMPA-KURUKSHETRA	2	0	5535	0.0	75.1	-75.1	
2	HVDC	VINDHYACHAL B/B	2	273	0	7.3	0.0	7.3	
3	HVDC	MUNDRA-MOHENDERGARH	2	0	1015	0.0	16.7	-16.7	
4	765 kV	GWALIOR-AGRA	2	0	1546	0.1	29.3	-29.1	
5	765 kV	GWALIOR-PHAGI	2	0	2071	0.0	34.1	-34.1	
6	765 kV	JABALPUR-ORAI	2	0	1173	0.0	46.2	-46.2	
7	765 kV	GWALIOR-ORAI	1	571	0	8.9	0.0	8.9	
8	765 kV	SATNA-ORAI	1	0	1061	0.0	23.0	-23.0	
9	765 kV	BANASKANTHA-CHITORGARH	2	1038	234	12.3	0.1	12.2	
10	765 kV	VINDHYACHAL-VARANASI	2	0	3503	0.0	67.7	-67.7	
11	400 kV	ZERDA-KANKROLI	1	166	45	1.8	0.0	1.8	
12	400 kV	ZERDA-BHINMAL	1	244	89	2.3	0.0	2.3	
13	400 kV	VINDHYACHAL-RIHAND	1	957	0	21.6	0.0	21.6	
14	400 kV	RAPP-SHULIAPUR	2	0	636	0.0	9.4	-9.4	
15	220 kV	BHANUPUR-RANPUR	1	0	0	0.0	0.0	0.0	
16	220 kV	BHANUPUR-MORAK	1	0	30	0.0	1.2	-1.2	
17	220 kV	MEHGAON-AURAIYA	1	76	62	0.3	0.0	0.2	
18	220 kV	MALANPUR-AURAIYA	1	44	18	1.2	0.0	1.2	
19	132 kV	GWALIOR-SAWAIMADHOPUR	1	0	0	0.0	0.0	0.0	
20	132 kV	RAJGHAT-LALITPUR	2	0	0	0.0	0.0	0.0	
						WR-NR	55.8	302.7	-247.0
Import/Export of WR (With SR)									
1	HVDC	BHADRAWATI B/B	-	984	0	24.0	0.0	24.0	
2	HVDC	RAIGARH-PUGALUR	2	2878	0	69.4	0.0	69.4	
3	765 kV	SOLAPUR-RAICHUR	2	2639	679	29.0	0.3	28.7	
4	765 kV	WARDHA-NIZAMABAD	2	404	1904	0.9	11.4	-10.4	
5	400 kV	KOLHAPUR-KUDCI	2	1938	0	31.7	0.0	31.7	
6	220 kV	KOLHAPUR-CHIKODI	1	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	98	1.2	0.0	1.2	
						WR-SR	156.2	11.7	144.6
INTERNATIONAL EXCHANGES									
State	Region	Line Name	Max (MW)	Min (MW)	Avg (MW)	Import(+ve)/Export(-ve) Energy Exchange (MU)			
BHUTAN	ER	400kV MANGDECHHU-ALIPURDUAR 1,2&3 i.e. ALIPURDUAR RECEIPT (from MANGDECHHU HEP 4*180MW)	700	0	636	15.3			
	ER	400kV TALA-BINAGURI 1,2,3 (& 400kV MALBASE - BINAGURI) i.e. BINAGURI RECEIPT (from TALA HEP (6*170MW))	1072	0	1025	24.6			
	ER	220kV CHUKHA-BIRPARA 1&2 (& 220kV MALBASE - BIRPARA) i.e. BIRPARA RECEIPT (from CHUKHA HEP 4*84MW)	225	0	196	4.7			
	NER	132kV GELEPHU-SALAKATI	-19	-10	-16	-0.4			
	NER	132kV MOTANGA-RANGIA	-47	0	-25	-0.6			
NEPAL	NR	132kV MAHENDRANAGAR-TANAKPUR(NHPC)	-64	0	-27	-0.7			
	ER	NEPAL IMPORT (FROM BIHAR)	0	0	0	0.0			
BANGLADESH	ER	400kV DHALKEBAR-MUZAFFARPUR 1&2	407	244	364	8.7			
	NER	BHERAMARA B/B HVDC (BANGLADESH)	-919	-906	-911	-21.9			
		132kV COMILLA-SURAJMANJANAGAR 1&2	-146	0	-136	-3.3			