



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: 20th 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 19.09.2022.

महोदय/Dear Sir,

आईईजीसी-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 19-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 19th 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: 21-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)	63699	50024	44682	24693	3416	186514
Peak Shortage (MW)	0	0	0	166	0	166
Energy Met (MU)	1450	1181	1030	526	64	4252
Hydro Gen (MU)	324	112	168	145	29	778
Wind Gen (MU)	30	77	146	-	-	252
Solar Gen (MU)*	114.79	45.63	96.79	3.87	0.68	262
Energy Shortage (MU)	0.89	0.00	0.00	0.61	0.04	1.54
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	64922	53266	48336	25009	3496	190535
Time Of Maximum Demand Met (From NLDC SCADA)	19:33	19:03	09:58	18:52	18:43	19:03

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	0.020	0.00	0.00	2.12	2.12	84.19	13.69

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	13092	0	278.5	165.1	-1.2	103	0.00
	Haryana	10126	0	211.6	139.4	-1.2	140	0.00
	Rajasthan	14006	0	302.1	100.4	-0.2	333	0.00
	Delhi	5332	0	110.8	100.5	-2.2	127	0.00
	UP	20670	0	411.2	157.1	-0.4	417	0.31
	Uttarakhand	2085	0	44.7	18.8	0.3	154	0.00
	HP	1653	0	34.1	3.0	0.1	88	0.00
	J&K(UT) & Ladakh(UT)	2773	0	50.7	27.9	2.7	276	0.58
	Chandigarh	292	0	6.0	6.0	0.1	20	0.00
	Chhattisgarh	4131	0	96.0	55.2	-0.2	398	0.00
WR	Gujarat	16939	0	367.6	237.2	-2.3	738	0.00
	MP	9934	0	218.3	92.3	0.0	262	0.00
	Maharashtra	21038	0	446.2	169.6	-4.4	537	0.00
	Goa	625	0	11.7	12.5	-0.8	42	0.00
	DNHDDPDCL	1217	0	27.9	27.8	0.1	51	0.00
	AMNSIL	616	0	13.7	7.1	0.3	258	0.00
SR	Andhra Pradesh	9847	0	202.1	52.0	0.5	745	0.00
	Telangana	11169	0	201.0	62.6	-0.3	585	0.00
	Karnataka	10519	0	195.4	59.2	-0.6	515	0.00
	Kerala	3838	0	78.4	40.1	-0.6	196	0.00
	Tamil Nadu	16094	0	343.7	150.7	0.0	1044	0.00
	Puducherry	421	0	9.4	9.0	-0.3	49	0.00
ER	Bihar	6008	0	116.5	105.0	1.1	306	0.08
	DVC	3472	0	75.9	22.1	1.8	448	0.00
	Jharkhand	1624	79	31.1	21.7	0.1	162	0.53
	Odisha	5829	0	123.2	40.9	-0.9	346	0.00
	West Bengal	8615	0	177.4	47.0	-0.7	452	0.00
	Sikkim	105	0	1.7	1.6	0.0	23	0.00
NER	Arumachal Pradesh	143	0	2.5	2.3	-0.1	30	0.00
	Assam	2299	0	43.2	36.8	0.3	135	0.00
	Manipur	198	0	2.8	2.6	0.1	45	0.04
	Meghalaya	350	0	6.1	1.4	0.1	47	0.00
	Mizoram	96	0	1.4	1.3	-0.3	6	0.00
	Nagaland	156	0	2.9	2.5	0.0	15	0.00
	Tripura	309	0	5.6	5.8	0.4	78	0.00

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

	Bhutan	Nepal	Bangladesh
Actual (MU)	41.6	5.7	-25.3
Day Peak (MW)	1906.0	428.0	-1083.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	249.2	-120.4	21.8	-147.3	-3.3	0.0
Actual(MU)	244.2	-116.3	25.6	-152.9	-0.2	0.5
O/D/U/D(MU)	-5.0	4.1	3.8	-5.6	3.1	0.5

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL	% Share
Central Sector	4072	15256	5908	1060	309	26604	42
State Sector	5470	18366	8382	3670	183	36070	58
Total	9542	33622	14290	4730	491	62674	100

G. Sourcewise generation (MU)

	NR	WR	SR	ER	NER	All India	% Share
Coal	757	1049	481	562	13	2862	64
Lignite	21	5	54	0	0	80	2
Hydro	315	112	168	145	29	768	17
Nuclear	24	32	42	0	0	99	2
Gas, Naptha & Diesel	16	2	9	0	29	56	1
RES (Wind, Solar, Biomass & Others)	160	123	290	4	1	578	13
Total	1292	1324	1044	711	71	4443	100
Share of RES in total generation (%)	12.36	9.32	27.80	0.54	0.95	13.01	
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	38.60	20.22	47.89	20.93	41.34	32.52	

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.024
Based on State Max Demands	1.079

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: 21-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	701	0.0	17.1	-17.1	
2	HVDC	PUSAULI B/B	-	0	348	0.0	8.6	-8.6	
3	765 kV	GAYALYARANASI	2	212	591	0.0	4.8	-4.8	
4	765 kV	SASARAM-FATEHPUR	1	0	392	0.0	4.7	-4.7	
5	765 kV	GAYA-BALIA	1	0	599	0.0	10.5	-10.5	
6	400 kV	PUSAULI-VARANASI	1	0	235	0.0	4.6	-4.6	
7	400 kV	PUSAULI-ALLAHABAD	1	0	196	0.0	3.6	-3.6	
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	0	978	0.0	17.3	-17.3	
9	400 kV	PATNA-BALIA	2	0	612	0.0	11.6	-11.6	
10	400 kV	NAUBATPUR-BALIA	2	0	649	0.0	12.1	-12.1	
11	400 kV	BIHARSHARIFF-BALIA	2	0	490	0.0	7.2	-7.2	
12	400 kV	MOTIHARI-GORAKHPUR	2	0	539	0.0	9.8	-9.8	
13	400 kV	BIHARSHARIFF-VARANASI	2	61	256	0.0	2.5	-2.5	
14	220 kV	SINPUR-BIKRAMNASHA	1	8	94	0.0	1.3	-1.3	
15	132 kV	NAGAR UNTARI-RIHAND	1	0	0	0.0	0.0	0.0	
16	132 kV	GARWAH-RIHAND	1	25	0	0.3	0.0	0.3	
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	0.3	115.8	-115.5
Import/Export of ER (With WR)									
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	940	391	3.8	0.0	3.8	
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	1039	634	8.4	0.0	8.4	
3	765 kV	JHARSUGUDA-DURG	2	0	364	0.0	4.6	-4.6	
4	400 kV	JHARSUGUDA-RAIGARH	4	1	498	0.0	5.1	-5.1	
5	400 kV	RANCHI-SIPAT	2	211	231	0.9	0.0	0.9	
6	220 kV	BUDHIPADAR-RAIGARH	1	17	64	0.0	0.6	-0.6	
7	220 kV	BUDHIPADAR-KORBA	2	43	126	0.0	1.0	-1.0	
						ER-WR	13.0	11.4	1.6
Import/Export of ER (With SR)									
1	HVDC	JEYPORE-GAZUWAKA B/B	2	0	233	0.0	5.0	-5.0	
2	HVDC	TALCHER-KOLAR BIPOLE	2	0	1640	0.0	38.1	-38.1	
3	765 kV	ANGUL-SRIKAKULAM	2	0	2170	0.0	31.4	-31.4	
4	400 kV	TALCHER-I/C	2	638	0	5.5	0.0	5.5	
5	220 kV	BALMELA-UPPER-SILERRU	1	2	0	0.0	0.0	0.0	
						ER-SR	0.0	74.5	-74.5
Import/Export of ER (With NER)									
1	400 kV	BINAGURI-BONGAIGAON	2	0	452	0.0	6.3	-6.3	
2	400 kV	ALIPURDUAR-BONGAIGAON	2	26	627	0.0	7.8	-7.8	
3	220 kV	ALIPURDUAR-SALAKATI	2	0	88	0.0	1.3	-1.3	
						ER-NER	0.0	15.4	-15.4
Import/Export of NER (With NR)									
1	HVDC	BISWANATH CHARIALI-AGRA	2	0	701	0.0	16.9	-16.9	
						NER-NR	0.0	16.9	-16.9
Import/Export of WR (With NR)									
1	HVDC	CHAMPA-KURUKSHETRA	2	0	2032	0.0	47.6	-47.6	
2	HVDC	VINDHYACHAL B/B	-	227	0	6.1	0.0	6.1	
3	HVDC	MUNDRA-MOHENDERGARH	2	0	311	0.0	7.4	-7.4	
4	765 kV	GWALIOR-AGRA	2	76	1304	0.1	20.2	-20.0	
5	765 kV	GWALIOR-PHAGI	2	0	2015	0.0	31.4	-31.4	
6	765 kV	JABALPUR-ORAI	2	0	829	0.0	24.9	-24.9	
7	765 kV	GWALIOR-ORAI	1	896	0	16.8	0.0	16.8	
8	765 kV	SATNA-ORAI	1	0	823	0.0	17.4	-17.4	
9	765 kV	BANASKANTHA-CHITORGARH	2	1954	0	26.3	0.0	26.3	
10	765 kV	VINDHYACHAL-VARANASI	2	0	2895	0.0	49.8	-49.8	
11	400 kV	ZERDA-KANKROLI	1	369	0	4.8	0.0	4.8	
12	400 kV	ZERDA-BHINMAL	1	600	0	6.7	0.0	6.7	
13	400 kV	VINDHYACHAL-RIHAND	1	964	0	21.6	0.0	21.6	
14	400 kV	RAPP-SHILAIPUR	2	204	652	0.4	8.0	-7.6	
15	220 kV	BHANPURA-RANPUR	1	0	0	0.0	0.0	0.0	
16	220 kV	BHANPURA-MORAK	1	0	30	0.0	1.3	-1.3	
17	220 kV	MEHGAON-AURAIYA	1	118	0	0.6	0.0	0.6	
18	220 kV	MALANPUR-AURAIYA	1	84	7	1.4	0.0	1.4	
19	132 kV	GWALIOR-SAWALMADHOPUR	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	84.8	208.0	-123.1
Import/Export of WR (With SR)									
1	HVDC	BHADRAWATI B/B	-	980	512	4.4	0.0	4.4	
2	HVDC	RAIGARH-PUGALUR	2	0	1001	0.0	22.0	-22.0	
3	765 kV	SOLAPUR-RAICHUR	2	1990	833	18.2	1.1	17.1	
4	765 kV	WARDHA-NIZAMABAD	2	583	2332	1.4	22.3	-20.9	
5	400 kV	KOLHAPUR-KUDCI	2	1611	0	26.5	0.0	26.5	
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	98	1.8	0.0	1.8	
						WR-SR	52.3	45.4	6.9
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)	549	0	511	12.3			
	ER	400kV TALA-BINAGURI 1,2,4 (& 400kV MALBASE - BINAGURI) I.e. BINAGURI RECEIPT (from TALA HEP (6*170MW) 220kV CHUKHA-BIRPARA 1&2 (& 220kV MALBASE - BIRPARA) I.e. BIRPARA RECEIPT (from CHUKHA HEP 4*84MW)	1072	1060	1066	25.6			
	ER	132kV GELEPHU-SALAKATI	-22	-8	-16	-0.4			
	NER	132kV MOTANGA-RANGIA	-46	-24	-39	-0.9			
	NR	132kV MAHENDRANAGAR-TANAKPUR(NHPC)	0	0	0	-2.0			
NEPAL	ER	NEPAL IMPORT (FROM BIHAR)	0	0	0	0.0			
	ER	400kV DHALKEBAR-MUZAFFARPUR 1&2	428	232	323	7.7			
BANGLADESH	ER	BHERAMARA B/B HVDC (BANGLADESH)	-921	-916	-919	-22.0			
	NER	132kV COMILLA-SURAJMANI NAGAR 1&2	-162	0	-138	-3.3			