



**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: 18<sup>th</sup> 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 17.09.2022.**

महोदय/Dear Sir,

आईईजीसी-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 17-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 17<sup>th</sup> 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: 18-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)	59851	48638	43709	23336	3155	178689
Peak Shortage (MW)	175	0	0	314	0	489
Energy Met (MU)	1322	1118	1029	512	60	4042
Hydro Gen (MU)	347	114	185	151	31	828
Wind Gen (MU)	50	105	124	-	-	278
Solar Gen (MU)*	111.97	47.07	110.72	4.73	0.67	275
Energy Shortage (MU)	0.95	0.00	0.00	1.27	0.00	2.22
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	61126	50743	47583	23938	3175	181554
Time Of Maximum Demand Met (From NLDC SCADA)	19:25	19:06	09:54	00:04	18:33	19:19

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	0.035	0.12	1.44	3.24	4.79	82.19	13.02

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	12108	0	265.4	165.5	-0.9	82	0.00
	Haryana	8884	0	194.2	130.4	1.0	190	0.00
	Rajasthan	13036	0	282.9	80.9	0.8	307	0.00
	Delhi	4746	0	98.0	87.8	-2.2	53	0.00
	UP	19081	0	355.9	135.1	0.0	426	0.00
	Uttarakhand	1704	0	37.1	11.7	-0.2	66	0.00
	HP	1643	0	34.4	0.9	0.1	79	0.00
	J&K(UT) & Ladakh(UT)	2699	130	48.4	24.2	1.7	399	0.95
	Chandigarh	278	0	5.5	5.7	-0.2	36	0.00
	Chhattisgarh	4603	0	104.9	50.2	-0.7	293	0.00
WR	Gujarat	15374	0	329.6	208.0	-4.6	1191	0.00
	MP	9313	0	200.2	78.9	0.0	416	0.00
	Maharashtra	20771	0	431.5	154.8	-3.4	762	0.00
	Goa	587	0	12.3	11.8	-0.1	40	0.00
	DNHDDPDCL	1153	0	26.5	26.5	0.0	112	0.00
SR	AMNSIL	591	0	13.3	7.0	0.0	282	0.00
	Andhra Pradesh	9735	0	210.3	58.8	-0.5	621	0.00
	Telangana	12386	0	219.2	76.2	-0.7	605	0.00
	Karnataka	9703	0	180.1	39.3	-0.5	743	0.00
	Kerala	3716	0	76.2	36.5	-1.8	173	0.00
	Tamil Nadu	15655	0	334.7	157.2	-0.6	484	0.00
	Puducherry	388	0	9.0	8.4	-0.2	48	0.00
ER	Bihar	5755	0	110.9	102.6	-0.8	253	0.08
	DVC	3323	0	69.5	-18.1	0.8	352	0.00
	Jharkhand	1643	0	33.6	22.6	0.2	204	1.19
	Odisha	6471	0	141.6	64.7	-1.7	413	0.00
	West Bengal	7636	0	155.3	22.4	0.4	488	0.00
NER	Sikkim	100	0	1.5	1.5	-0.1	19	0.00
	Arunachal Pradesh	139	0	2.4	2.3	-0.2	22	0.00
	Assam	2083	0	39.4	32.1	0.2	130	0.00
	Manipur	187	0	2.7	2.7	-0.1	24	0.00
	Meghalaya	311	0	5.8	1.6	-0.1	54	0.00
	Mizoram	109	0	1.6	0.9	-0.2	25	0.00
	Nagaland	160	0	2.9	2.4	0.0	9	0.00
	Tripura	287	0	5.3	6.8	0.1	67	0.00

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

	Bhutan	Nepal	Bangladesh
Actual (MU)	44.8	5.2	-25.0
Day Peak (MW)	2133.0	378.0	-1057.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	192.1	-125.0	61.4	-120.1	-8.3	0.0
Actual(MU)	175.7	-121.5	63.7	-115.9	-5.7	-3.7
O/D/U/D(MU)	-16.4	3.5	2.4	4.3	2.6	-3.7

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL	% Share
Central Sector	5471	17316	8618	2420	309	34133	45
State Sector	6565	20696	10362	3710	197	41530	55
Total	12036	38012	18980	6130	506	75663	100

G. Sourcewise generation (MU)

	NR	WR	SR	ER	NER	All India	% Share
Coal	641	957	427	510	13	2548	60
Lignite	27	7	55	0	0	89	2
Hydro	347	114	185	151	31	828	19
Nuclear	19	33	42	0	0	94	2
Gas, Naptha & Diesel	16	2	3	0	28	55	1
RES (Wind, Solar, Biomass & Others)	180	153	285	5	1	624	15
Total	1229	1267	1003	666	72	4237	100

Share of RES in total generation (%)	14.74	12.11	28.42	0.71	0.93	14.75
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	43.94	23.71	51.09	23.34	43.48	36.32

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.028
Based on State Max Demands	1.082

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: 18-Sep-2022

Sl No	Voltage Level	Line Details	No. of Circuit	Max Import (MW)	Max Export (MW)	Import (MU)	Export (MU)	NET (MU)	
<b>Import/Export of ER (With NR)</b>									
1	HVDC	ALIPURDUAR-AGRA	2	0	1000	0.0	22.0	-22.0	
2	HVDC	PUSAULI B/B	-	0	348	0.0	8.1	-8.1	
3	765 kV	GAYA-VARANASI	2	536	268	2.9	0.0	2.9	
4	765 kV	SASARAM-FATEHPUR	1	150	180	0.2	0.0	0.2	
5	765 kV	GAYA-BALIA	1	0	527	0.0	7.4	-7.4	
6	400 kV	PUSAULI-VARANASI	1	0	250	0.0	4.8	-4.8	
7	400 kV	PUSAULI-ALLAHABAD	1	0	178	0.0	3.2	-3.2	
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	0	528	0.0	14.8	-14.8	
9	400 kV	PATNA-BALIA	2	0	585	0.0	9.2	-9.2	
10	400 kV	NAUBATPUR-BALIA	2	0	630	0.0	10.1	-10.1	
11	400 kV	BIHARSHARIFF-BALIA	2	0	354	0.0	5.6	-5.6	
12	400 kV	MOTIHARI-GORAKHPUR	2	0	412	0.0	6.8	-6.8	
13	400 kV	BIHARSHARIFF-VARANASI	2	200	100	0.8	0.0	0.8	
14	220 kV	SINPUR-KARMANASA	1	31	76	0.0	0.7	-0.7	
15	132 kV	NAGAR UNTARI-RIHAND	1	0	0	0.0	0.0	0.0	
16	132 kV	GARWAH-RIHAND	1	25	0	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	4.3	92.6	-88.3
<b>Import/Export of ER (With WR)</b>									
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	985	561	5.3	0.0	5.3	
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	917	650	9.2	0.0	9.2	
3	765 kV	JHARSUGUDA-DURG	2	49	407	0.0	4.3	-4.3	
4	400 kV	JHARSUGUDA-RAIGARH	4	0	403	0.0	5.4	-5.4	
5	400 kV	RANCHI-SIPAT	2	202	158	1.7	0.0	1.7	
6	220 kV	BUDHIPADAR-RAIGARH	1	28	80	0.0	0.5	-0.5	
7	220 kV	BUDHIPADAR-KORBA	2	220	0	3.8	0.0	3.8	
						ER-WR	19.9	10.2	9.7
<b>Import/Export of ER (With SR)</b>									
1	HVDC	JEYPORE-GAZUWAKA B/B	2	0	541	0.0	12.4	-12.4	
2	HVDC	TALCHER-KOLAR BIPOLE	2	0	1982	0.0	34.7	-34.7	
3	765 kV	ANGUL-SRIKAKULAM	2	0	1897	0.0	26.5	-26.5	
4	400 kV	TALCHER-I/C	2	707	570	4.7	0.0	4.7	
5	220 kV	BALIMELA-UPPER-SILERRU	1	2	0	0.0	0.0	0.0	
						ER-SR	0.0	73.6	-73.6
<b>Import/Export of ER (With NER)</b>									
1	400 kV	BINAGURI-BONGAIGAON	2	39	272	0.0	4.2	-4.2	
2	400 kV	ALIPURDUAR-BONGAIGAON	2	85	366	0.0	4.6	-4.6	
3	220 kV	ALIPURDUAR-SALAKATI	2	0	59	0.0	1.0	-1.0	
						ER-NER	0.0	9.8	-9.8
<b>Import/Export of NER (With NR)</b>									
1	HVDC	BISWANATH CHARIALI-AGRA	2	0	701	0.0	16.8	-16.8	
						NER-NR	0.0	16.8	-16.8
<b>Import/Export of WR (With NR)</b>									
1	HVDC	CHAMPA-KURUKSHETRA	2	0	1503	0.0	25.6	-25.6	
2	HVDC	VINDHYACHAL B/B	-	447	0	9.1	0.0	9.1	
3	HVDC	MUNDRA-MOHINDERGARH	2	0	310	0.0	7.4	-7.4	
4	765 kV	GWALIOR-AGRA	2	45	1104	0.1	16.7	-16.5	
5	765 kV	GWALIOR-PHAGI	2	638	1829	2.3	20.4	-18.1	
6	765 kV	JABALPUR-ORAI	2	0	672	0.0	14.3	-14.3	
7	765 kV	GWALIOR-ORAI	1	834	0	12.3	0.0	12.3	
8	765 kV	SATNA-ORAI	1	0	780	0.0	15.1	-15.1	
9	765 kV	BANASKANTHA-CHITORGARH	2	1189	101	15.3	0.0	15.3	
10	765 kV	VINDHYACHAL-VARANASI	2	0	2823	0.0	48.5	-48.5	
11	400 kV	ZERDA-KANKROLI	1	266	0	3.8	0.0	3.8	
12	400 kV	ZERDA-JBHINMAL	1	552	0	8.9	0.0	8.9	
13	400 kV	VINDHYACHAL-RIHAND	1	973	0	19.7	0.0	19.7	
14	400 kV	RAPP-SHILAIIPUR	2	251	599	1.1	5.4	-4.4	
15	220 kV	BHANPURA-RANPUR	1	0	0	0.0	0.0	0.0	
16	220 kV	BHANPURA-MORAK	1	0	30	0.0	1.0	-1.0	
17	220 kV	MEHGAON-AURAIYA	1	119	0	0.5	0.0	0.5	
18	220 kV	MALANPUR-AURAIYA	1	81	6	1.1	0.0	1.1	
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	74.2	154.4	-80.3
<b>Import/Export of WR (With SR)</b>									
1	HVDC	BHADRAWATI B/B	-	0	1012	0.0	19.8	-19.8	
2	HVDC	RAIGARH-PUGALUR	2	0	3505	0.0	27.7	-27.7	
3	765 kV	SOLAPUR-RAICHUR	2	1452	1183	12.8	2.2	10.6	
4	765 kV	WARDHA-NIZAMABAD	2	364	2343	0.4	22.0	-21.6	
5	400 kV	KOLHAPUR-KUDCI	2	1313	0	25.3	0.0	25.3	
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	0	96	1.8	0.0	1.8	
						WR-SR	40.3	71.6	-31.3
<b>INTERNATIONAL EXCHANGES</b>									
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)	756	0	701	16.8			
		400kV TALA-BINAGURI 1,2,3 (& 400kV MALBASE - BINAGURI) i.e. BINAGURI RECEIPT (from TALA HEP (6*170MW))	1081	0	1058	25.4			
	ER	220kV CHUKHA-BIRPARA 1&2 (& 220kV MALBASE - BIRPARA) i.e. BIRPARA RECEIPT (from CHUKHA HEP 4*84MW)	216	0	190	4.6			
	NER	132kV GELEPHU-SALAKATI	35	13	19	0.5			
	NER	132kV MOTANGA-RANGIA	51	24	36	0.9			
NEPAL	NR	132kV MAHENDRANAGAR-TANAKPUR(NHPC)	0	0	0	-0.1			
	ER	NEPAL IMPORT (FROM BIHAR)	0	0	0	0.0			
BANGLADESH	ER	400kV DHALKEBAR-MUZAFFARPUR 1&2	444	34	222	5.3			
	ER	BHERAMARA B/B HVDC (BANGLADESH)	-919	-916	-916	-22.0			
BANGLADESH	NER	132kV COMILLA-SURAJMANJANAGAR 1&2	-138	0	-127	-3.1			