



**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: 16<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 15.09.2022.**

महोदय/Dear Sir,

आईईजीसी-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 15-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 15<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:

16-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)	59520	48665	43932	23705	3192	179014
Peak Shortage (MW)	0	0	0	0	0	0
Energy Met (MU)	1380	1125	997	515	61	4077
Hydro Gen (MU)	357	107	178	146	30	819
Wind Gen (MU)	8	141	142	-	-	290
Solar Gen (MU)*	86.19	27.25	99.29	4.80	0.62	218
Energy Shortage (MU)	0.03	0.00	0.00	0.64	0.11	0.78
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	61397	51212	46286	23754	3244	182333
Time Of Maximum Demand Met (From NLDC SCADA)	00:00	18:58	09:59	19:45	18:32	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	0.056	0.93	2.36	6.15	9.43	72.94	17.63

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	12749	0	282.8	178.6	-1.5	161	0.00
	Haryana	9679	0	209.3	141.0	-1.0	156	0.00
	Rajasthan	13333	0	284.5	94.0	0.7	329	0.00
	Delhi	5226	0	112.5	101.1	-3.0	93	0.00
	UP	17858	0	354.3	147.9	-1.7	679	0.00
	Uttarakhand	1945	0	42.5	19.0	-1.1	126	0.00
	HP	1686	0	34.4	-0.1	0.0	90	0.03
	J&K(UT) & Ladakh(UT)	2777	0	53.9	27.3	1.7	217	0.00
WR	Chandigarh	293	0	5.8	6.3	-0.5	24	0.00
	Chhattisgarh	4781	0	108.8	55.6	-1.0	247	0.00
	Gujarat	14862	0	325.0	208.4	-2.5	571	0.00
	MP	9369	0	193.5	71.5	0.0	468	0.00
	Maharashtra	20731	0	442.5	148.4	-3.9	728	0.00
	Goa	609	0	12.6	12.1	0.0	43	0.00
	DNHDDPDCL	1212	0	28.2	28.1	0.1	199	0.00
	AMNSIL	661	0	14.1	7.3	0.5	285	0.00
SR	Andhra Pradesh	9264	0	198.8	50.9	0.3	742	0.00
	Telangana	11086	0	202.2	60.7	0.6	966	0.00
	Karnataka	8901	0	168.7	35.1	-0.9	812	0.00
	Kerala	3730	0	76.1	35.3	-1.1	148	0.00
	Tamil Nadu	15965	0	341.4	162.5	-1.4	566	0.00
	Puducherry	429	0	9.4	8.8	-0.2	30	0.00
ER	Bihar	5336	0	105.7	97.1	-0.7	190	0.18
	DVC	3255	0	73.2	-25.3	0.7	224	0.00
	Jharkhand	1593	0	30.5	22.1	-1.3	158	0.46
	Odisha	6244	0	138.5	57.8	-2.1	312	0.00
	West Bengal	7988	0	165.6	32.4	0.1	435	0.00
NER	Sikkim	105	0	1.7	1.6	0.0	18	0.00
	Arunachal Pradesh	136	0	2.4	2.3	-0.1	60	0.00
	Assam	2088	0	40.6	33.0	1.3	117	0.00
	Manipur	174	46	2.7	2.5	0.2	46	0.11
	Meghalaya	341	0	6.1	1.4	0.2	52	0.00
	Mizoram	106	0	1.5	0.9	-0.2	14	0.00
	Nagaland	159	0	2.6	2.3	-0.1	21	0.00
Tripura	293	0	4.9	4.7	-0.3	63	0.00	

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

	Bhutan	Nepal	Bangladesh
Actual (MU)	45.2	9.3	-25.0
Day Peak (MW)	2056.0	432.0	-1066.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	259.1	-114.5	11.7	-147.1	-9.2	0.0
Actual(MU)	250.3	-128.5	28.5	-148.1	-7.2	-5.0
O/D/U/D(MU)	-8.8	-14.1	16.9	-1.1	2.1	-5.0

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL	% Share
Central Sector	5322	16381	6528	1670	309	30209	44
State Sector	5335	19751	10542	2400	182	38209	56
Total	10657	36132	17070	4070	490	68418	100

G. Sourcewise generation (MU)

	NR	WR	SR	ER	NER	All India	% Share
Coal	672	949	447	544	14	2625	61
Lignite	30	9	54	0	0	94	2
Hydro	348	107	178	146	30	810	19
Nuclear	19	32	42	0	0	93	2
Gas, Naptha & Diesel	18	2	8	0	29	57	1
RES (Wind, Solar, Biomass & Others)	129	169	288	5	1	591	14
Total	1216	1269	1017	695	74	4271	100

Share of RES in total generation (%)	10.63	13.33	28.26	0.70	0.84	13.85
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	40.79	24.33	49.95	21.76	42.04	35.00

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.020
Based on State Max Demands	1.069

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: 16-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	1001	0.0	22.2	-22.2	
2	HVDC	PUSAULI B/B	-	0	348	0.0	8.2	-8.2	
3	765 kV	GAYA-VARANASI	2	251	457	0.0	3.8	-3.8	
4	765 kV	SASARAM-FATEHPUR	1	7	319	0.0	3.8	-3.8	
5	765 kV	GAYA-BALIA	1	0	551	0.0	3.9	-3.9	
6	400 kV	PUSAULI-VARANASI	1	0	230	0.0	4.3	-4.3	
7	400 kV	PUSAULI-ALLAHABAD	1	0	194	0.0	3.7	-3.7	
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	0	1007	0.0	18.3	-18.3	
9	400 kV	PATNA-BALIA	2	0	615	0.0	11.2	-11.2	
10	400 kV	NAUBATPUR-BALIA	2	0	662	0.0	11.9	-11.9	
11	400 kV	BIHARSHARIF-BALIA	2	0	563	0.0	8.3	-8.3	
12	400 kV	MOTHARI-GORAKHPUR	2	0	487	0.0	8.4	-8.4	
13	400 kV	BIHARSHARIF-VARANASI	2	71	208	0.0	2.1	-2.1	
14	220 kV	SAHUPURI-KARAMNANA	1	0	96	0.0	1.2	-1.2	
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-CHANDALI	1	0	0	0.0	0.0	0.0	
						ER-NR	0.3	116.4	-116.1
<b>Import/Export of ER (With WR)</b>									
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	1184	2	15.0	0.0	15.0	
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	916	223	11.9	0.0	11.9	
3	765 kV	JHARSUGUDA-DURG	2	13	328	0.0	4.0	-4.0	
4	400 kV	JHARSUGUDA-RAIGARH	4	125	358	0.0	3.9	-3.9	
5	400 kV	RANCHI-SIPAT	2	260	110	2.3	0.0	2.3	
6	220 kV	BUDHIPADAR-RAIGARH	1	30	110	0.0	1.0	-1.0	
7	220 kV	BUDHIPADAR-KORBA	2	195	0	2.7	0.0	2.7	
						ER-WR	31.9	8.9	23.0
<b>Import/Export of ER (With SR)</b>									
1	HVDC	JEYPORE-GAZUWAKA B/B	2	0	770	0.0	12.0	-12.0	
2	HVDC	TALCHER-KOLAR BIPOLE	2	0	2481	0.0	46.9	-46.9	
3	765 kV	ANGUL-SRIKAKULAM	2	0	2182	0.0	35.2	-35.2	
4	400 kV	TALCHER-I/C	2	80	973	0.0	6.5	-6.5	
5	220 kV	BALIMELA-UPPER-SILERRU	1	2	0	0.0	0.0	0.0	
						ER-SR	0.0	94.1	-94.1
<b>Import/Export of ER (With NER)</b>									
1	400 kV	BINAGURI-BONGAIGAON	2	0	293	0.1	4.3	-4.2	
2	400 kV	ALIPURDUAR-BONGAIGAON	2	62	369	0.0	3.7	-3.7	
3	220 kV	ALIPURDUAR-SALAKATI	2	0	99	0.0	0.9	-0.9	
						ER-NER	0.1	8.9	-8.8
<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	1706	0.0	30.7	-30.7	
2	HVDC	VINDHYACHAL B/B	-	446	0	12.2	0.0	12.2	
3	HVDC	MUNDRA-MOHINDERGARH	2	0	311	0.0	7.4	-7.4	
4	765 kV	GWALIOR-AGRA	2	0	1340	0.1	22.8	-22.7	
5	765 kV	GWALIOR-PHAGI	2	0	1834	0.0	26.0	-26.0	
6	765 kV	JABALPUR-ORAI	2	0	888	0.0	26.8	-26.8	
7	765 kV	GWALIOR-ORAI	1	645	0	9.5	0.0	9.5	
8	765 kV	SATNA-ORAI	1	0	976	0.0	18.9	-18.9	
9	765 kV	BANASKANTHA-CHITORGARH	2	1312	0	14.0	0.0	14.0	
10	765 kV	VINDHYACHAL-VARANASI	2	0	2341	0.0	44.3	-44.3	
11	400 kV	ZERDA-KANKROLI	1	219	6	2.6	0.0	2.6	
12	400 kV	ZERDA-BHINMAL	1	436	100	3.6	0.0	3.6	
13	400 kV	VINDHYACHAL-RIHAND	1	951	0	15.0	0.0	15.0	
14	400 kV	RAPP-SHUJALPUR	2	0	727	0.0	8.2	-8.2	
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	73	0	0.3	0.1	0.2	
18	220 kV	MALANPUR-AURAIYA	1	55	20	0.6	0.0	0.6	
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	57.9	186.0	-128.1
<b>Import/Export of WR (With SR)</b>									
1	HVDC	BHADRAWATI B/B	-	984	0	18.1	0.0	18.1	
2	HVDC	RAIGARH-PUGALUR	2	2406	0	28.1	0.0	28.1	
3	765 kV	SOLAPUR-RAICHUR	2	937	1897	2.2	12.1	-9.8	
4	765 kV	WARDHA-NIZAMABAD	2	0	2962	0.0	38.3	-38.3	
5	400 kV	KOLHAPUR-KUDGI	2	1426	0	23.1	0.0	23.1	
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	0	96	1.8	0.0	1.8	
						WR-SR	73.3	50.4	22.9

INTERNATIONAL EXCHANGES

Import(+ve)/Export(-ve)

State	Region	Line Name	Max (MW)	Min (MW)	Avg (MW)	Energy Exchange (MU)
BHUTAN	ER	400kV MANGDECHHU-ALIPURDUAR 1,2&3 i.e. ALIPURDUAR RECEIPT (from MANGDECHHU HEP 4*180MW)	703	0	686	16.5
	ER	400kV TALA-BINAGURI 1,2,4 (& 400kV MALBASE - BINAGURI) i.e. BINAGURI RECEIPT (from TALA HEP (6*170MW))	1077	0	1032	24.8
	ER	220kV CHUKHA-BIRPARA 1&2 (& 220kV MALBASE - BIRPARA) i.e. BIRPARA RECEIPT (from CHUKHA HEP 4*84MW)	285	0	195	4.7
	NER	132kV GELEPHU-SALAKATI	21	6	13	0.3
	NER	132kV MOTANGA-RANGIA	48	-22	16	0.4
NEPAL	NR	132kV MAHENDRANAGAR-TANAKPUR(NHPC)	-15	0	0	0.0
	ER	NEPAL IMPORT (FROM BIHAR)	0	0	0	0.0
	ER	400kV DHALKEBAR-MUZAFFARPUR 1&2	447	272	388	9.3
BANGLADESH	ER	BHERAMARA B/B HVDC (BANGLADESH)	-928	-919	-922	-22.1
	NER	132kV COMILLA-SURAJMANI NAGAR 1&2	-138	0	-119	-2.9