



**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: 17<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 16.09.2022.**

महोदय/Dear Sir,

आईईजीसी-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 16-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 16<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:

17-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)	59216	48098	44085	24598	3186	179183
Peak Shortage (MW)	0	0	0	131	0	131
Energy Met (MU)	1303	1130	1027	523	62	4046
Hydro Gen (MU)	348	112	178	148	30	816
Wind Gen (MU)	39	169	134	-	-	343
Solar Gen (MU)*	115.07	40.18	100.07	5.02	0.68	261
Energy Shortage (MU)	6.85	0.00	0.00	1.56	0.03	8.44
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	60809	51529	48164	24857	3233	183373
Time Of Maximum Demand Met (From NLDC SCADA)	19:23	19:01	10:41	19:32	18:15	19:22

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	0.041	0.00	0.36	1.70	2.06	69.15	28.79

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(-) (MW)	Max OD (MW)	Energy Shortage (MU)
NR	Punjab	12255	0	269.5	173.3	-1.3	129	0.00
	Haryana	8943	0	191.7	131.8	-0.1	290	0.00
	Rajasthan	13603	17	285.3	78.7	0.2	281	0.70
	Delhi	4582	0	98.5	89.4	-3.3	34	0.00
	UP	17532	0	326.7	119.5	-2.2	739	5.90
	Uttarakhand	1948	0	41.3	15.8	-0.4	156	0.00
	HP	1721	0	35.2	2.2	0.2	99	0.00
	J&K(UT) & Ladakh(UT)	2623	0	49.2	24.3	0.0	447	0.25
WR	Chandigarh	264	0	5.5	5.9	-0.4	10	0.00
	Chhattisgarh	4777	0	113.2	58.2	0.5	312	0.00
	Gujarat	15326	0	327.1	183.0	-9.5	944	0.00
	MP	9572	0	199.5	76.7	0.0	152	0.00
	Maharashtra	19955	0	436.7	153.9	-3.8	907	0.00
	Goa	614	0	12.4	12.2	-0.2	82	0.00
	DNHDDPDCL	1205	0	27.9	27.9	0.0	39	0.00
	AMNSIL	610	0	13.6	7.4	-0.1	231	0.00
SR	Andhra Pradesh	9581	0	204.1	50.6	0.1	610	0.00
	Telangana	12209	0	216.7	73.6	0.7	1530	0.00
	Karnataka	8968	0	174.2	37.6	0.7	852	0.00
	Kerala	3774	0	76.5	37.5	-0.5	246	0.00
	Tamil Nadu	15853	0	346.6	168.5	1.4	883	0.00
	Puducherry	416	0	9.4	9.2	-0.6	27	0.00
ER	Bihar	5894	0	111.7	100.6	0.2	214	0.87
	DVC	3438	0	74.0	-23.6	1.3	495	0.00
	Jharkhand	1641	131	32.3	22.7	-1.2	264	0.70
	Odisha	6336	0	139.7	59.6	-0.4	493	0.00
	West Bengal	8145	0	163.7	31.3	0.6	313	0.00
	Sikkim	108	0	1.7	1.7	0.0	24	0.00
NER	Arunachal Pradesh	140	0	2.4	2.4	-0.3	65	0.00
	Assam	2109	0	40.6	33.2	0.7	113	0.00
	Manipur	182	7	2.7	2.6	0.1	45	0.03
	Meghalaya	339	0	6.2	1.5	0.2	66	0.00
	Mizoram	101	0	1.6	0.9	0.1	41	0.00
	Nagaland	158	0	2.6	2.4	-0.1	16	0.00
Tripura	278	0	6.3	5.8	0.2	105	0.00	

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

	Bhutan	Nepal	Bangladesh
Actual (MU)	43.0	9.9	-25.0
Day Peak (MW)	2043.0	414.0	-1060.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	206.4	-123.7	44.1	-120.1	-6.8	0.0
Actual(MU)	172.4	-122.0	64.6	-119.5	-3.0	-7.3
O/D/U/D(MU)	-34.0	1.7	20.5	0.7	3.8	-7.3

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL	% Share
Central Sector	6032	15721	6518	2170	309	30749	43
State Sector	6315	20321	10422	3210	283	40550	57
Total	12347	36042	16940	5380	591	71299	100

G. Sourcewise generation (MU)

	NR	WR	SR	ER	NER	All India	% Share
Coal	631	908	435	514	12	2499	59
Lignite	30	8	54	0	0	93	2
Hydro	348	112	178	148	30	816	19
Nuclear	19	33	42	0	0	93	2
Gas, Naptha & Diesel	16	2	8	0	29	55	1
RES (Wind, Solar, Biomass & Others)	170	211	279	5	1	666	16
Total	1214	1274	997	667	71	4223	100

Share of RES in total generation (%)	14.15	16.55	28.04	0.75	0.95	15.82
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	43.80	27.92	50.06	22.92	43.24	37.17

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.028
Based on State Max Demands	1.064

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: 17-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	602	0.0	14.7	-14.7	
2	HVDC	PUSAULI B/B	-	0	348	0.0	8.6	-8.6	
3	765 kV	GAYA-VARANASI	2	436	436	2.4	0.0	2.4	
4	765 kV	SASARAM-FATEHPUR	1	119	232	0.0	0.3	-0.3	
5	765 kV	GAYA-BALIA	1	0	437	0.0	5.5	-5.5	
6	400 kV	PUSAULI-VARANASI	1	0	356	0.0	5.0	-5.0	
7	400 kV	PUSAULI-ALLAHABAD	1	0	192	0.0	3.6	-3.6	
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	0	869	0.0	15.1	-15.1	
9	400 kV	PATNA-BALIA	2	0	535	0.0	9.0	-9.0	
10	400 kV	NAUBATPUR-BALIA	2	0	571	0.0	9.2	-9.2	
11	400 kV	BIHARSHARIF-BALIA	2	0	448	0.0	5.5	-5.5	
12	400 kV	MOTHARI-GORAKHPUR	2	0	456	0.0	6.7	-6.7	
13	400 kV	BIHARSHARIF-VARANASI	2	187	141	0.5	0.0	0.5	
14	220 kV	SAHUPURI-KARAMNANA	1	29	70	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	0.2	0.0	0.2	
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	3.0	83.8	-80.8
<b>Import/Export of ER (With WR)</b>									
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	1556	29	14.4	0.0	14.4	
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	896	904	9.4	0.0	9.4	
3	765 kV	JHARSUGUDA-DURG	2	129	425	0.0	3.1	-3.1	
4	400 kV	JHARSUGUDA-RAIGARH	4	61	550	0.0	5.1	-5.1	
5	400 kV	RANCHI-SIPAT	2	234	278	1.8	0.0	1.8	
6	220 kV	BUDHIPADAR-RAIGARH	1	41	73	0.0	0.5	-0.5	
7	220 kV	BUDHIPADAR-KORBA	2	226	0	3.6	0.0	3.6	
						ER-WR	29.0	8.7	20.4
<b>Import/Export of ER (With SR)</b>									
1	HVDC	JEYPORE-GAZUWAKA B/B	2	0	755	0.0	13.0	-13.0	
2	HVDC	TALCHER-KOLAR BIPOLE	2	0	1992	0.0	44.2	-44.2	
3	765 kV	ANGUL-SRIKAKULAM	2	0	2172	0.0	30.7	-30.7	
4	400 kV	TALCHER-JC	2	171	1015	0.0	9.7	-9.7	
5	220 kV	BALIMELA-UPPER-SILERRU	1	2	0	0.0	0.0	0.0	
						ER-SR	0.0	87.9	-87.9
<b>Import/Export of ER (With NER)</b>									
1	400 kV	BINAGURI-BONGAIGAON	2	0	289	0.0	4.5	-4.5	
2	400 kV	ALIPURDUAR-BONGAIGAON	2	0	468	0.0	7.1	-7.1	
3	220 kV	ALIPURDUAR-SALAKATI	2	0	61	0.0	1.1	-1.1	
						ER-NER	0.0	12.7	-12.7
<b>Import/Export of NER (With NR)</b>									
1	HVDC	BISWANATH CHARIALI-AGRA	2	0	701	0.0	16.9	-16.9	
						NER-NR	0.0	16.9	-16.9
<b>Import/Export of WR (With NR)</b>									
1	HVDC	CHAMPA-KURUKSHETRA	2	0	1012	0.0	24.2	-24.2	
2	HVDC	VINDHYACHAL B/B	-	449	0	12.1	0.0	12.1	
3	HVDC	MUNDRA-MOHINDERGARH	2	0	311	0.0	7.4	-7.4	
4	765 kV	GWALIOR-AGRA	2	5	1143	0.1	17.4	-17.3	
5	765 kV	GWALIOR-PHAGI	2	618	1320	2.6	15.8	-13.2	
6	765 kV	JABALPUR-ORAI	2	97	726	0.0	16.8	-16.8	
7	765 kV	GWALIOR-ORAI	1	720	0	10.0	0.0	10.0	
8	765 kV	SATNA-ORAI	1	0	856	0.0	15.0	-15.0	
9	765 kV	BANASKANTHA-CHITORGARH	2	615	481	6.0	1.2	4.8	
10	765 kV	VINDHYACHAL-VARANASI	2	0	2665	0.0	44.6	-44.6	
11	400 kV	ZERDA-KANKROLI	1	170	28	2.1	0.0	2.1	
12	400 kV	ZERDA-BHINMAL	1	369	0	6.0	0.0	6.0	
13	400 kV	VINDHYACHAL-RIHAND	1	960	0	19.8	0.0	19.8	
14	400 kV	RAPP-SHUJALPUR	2	227	481	1.1	4.7	-3.6	
15	220 kV	BHANPURA-RANPUR	1	0	0	0.0	0.0	0.0	
16	220 kV	BHANPURA-MORAK	1	0	30	0.0	1.0	-1.0	
17	220 kV	MEHGAON-AURAIYA	1	87	1	0.5	0.0	0.5	
18	220 kV	MALANPUR-AURAIYA	1	88	22	1.1	0.0	1.1	
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	61.5	148.1	-86.6
<b>Import/Export of WR (With SR)</b>									
1	HVDC	BHADRAWATI B/B	-	984	813	0.0	2.3	-2.3	
2	HVDC	RAIGARH-PUGALUR	2	705	2502	0.0	3.5	-3.5	
3	765 kV	SOLAPUR-RAICHUR	2	1281	1817	3.7	7.5	-3.8	
4	765 kV	WARDHA-NIZAMABAD	2	0	2888	0.0	33.1	-33.1	
5	400 kV	KOLHAPUR-KUDGI	2	1656	0	26.4	0.0	26.4	
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	1.7	0.0	1.7	
						WR-SR	31.9	46.3	-14.4

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)	702	0	634	15.2
	ER	400kV TALA-BINAGURI 1,2,4 (& 400kV MALBASE - BINAGURI) i.e. BINAGURI RECEIPT (from TALA HEP (5*70MW))	1079	0	1026	24.6
	ER	220kV CHUKHA-BIRPARA 1&2 (& 220kV MALBASE - BIRPARA) i.e. BIRPARA RECEIPT (from CHUKHA HEP 4*84MW)	231	0	188	4.5
	NER	132kV GELEPHU-SALAKATI	23	11	19	0.5
	NER	132kV MOTANGA-RANGIA	53	26	42	1.0
NEPAL	NR	132kV MAHENDRANAGAR-TANAKPUR(NHPC)	-33	0	-1	0.0
	ER	NEPAL IMPORT (FROM BIHAR)	0	0	0	0.0
	ER	400kV DHALKEBAR-MUZAFFARPUR 1&2	447	287	414	9.9
BANGLADESH	ER	BHERAMARA B/B HVDC (BANGLADESH)	-921	-915	-918	-22.0
	NER	132kV COMILLA-SURAJMANI NAGAR 1&2	-139	0	-122	-2.9