



**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> Sep 2021

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 16.09.2021.**

महोदय/Dear Sir,

आई०ई०जी०सी०-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 16-सितंबर-2021 की अखिल भारतीय प्रणाली की दैनिक ग्रिड निष्पादन रिपोर्ट रा०भा०प्रे०के० 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> September 2021, 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-2021

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)	49237	47281	44611	22175	2958	166262
Peak Shortage (MW)	200	0	0	218	0	418
Energy Met (MU)	1091	1072	1064	461	56	3744
Hydro Gen (MU)	325	41	162	138	29	695
Wind Gen (MU)	7	69	136	-	-	212
Solar Gen (MU)*	60.49	28.87	102.86	4.38	0.09	197
Energy Shortage (MU)	3.56	0.00	0.00	1.98	0.00	5.54
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	50269	47974	50726	22261	2998	167244
Time Of Maximum Demand Met (From NLDC SCADA)	19:25	19:02	10:27	20:09	18:21	19:25

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	0.027	0.00	0.00	5.12	5.12	80.96	13.92

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	9504	0	214.2	149.5	-0.4	129	0.00
	Haryana	7315	0	163.1	118.1	-1.0	181	0.00
	Rajasthan	9731	0	218.0	93.5	1.9	638	0.00
	Delhi	4570	0	97.5	87.6	-1.6	110	0.00
	UP	14147	0	270.4	80.9	-3.9	722	0.11
	Uttarakhand	1925	0	42.4	13.0	1.4	229	0.00
	HP	1518	0	32.4	-4.5	1.3	148	0.00
	J&K(UT) & Ladakh(UT)	2320	250	47.1	26.6	-0.3	274	3.45
WR	Chandigarh	312	0	5.8	5.8	0.0	40	0.00
	Chhattisgarh	3460	0	78.0	34.4	-0.4	265	0.00
	Gujarat	14069	0	309.1	191.7	0.3	544	0.00
	MP	8448	0	184.1	109.0	-2.8	509	0.00
	Maharashtra	20220	0	443.6	143.1	-3.6	857	0.00
	Goa	573	0	12.3	11.2	0.4	33	0.00
	DD	343	0	7.7	7.4	0.3	43	0.00
	DNH	836	0	19.6	19.5	0.1	54	0.00
SR	AMNSIL	810	0	17.4	5.4	-0.6	166	0.00
	Andhra Pradesh	10445	0	211.8	80.7	-0.2	587	0.00
	Telangana	11362	0	225.1	76.0	0.2	630	0.00
	Karnataka	10818	0	203.6	55.9	-0.4	832	0.00
	Kerala	3640	0	73.3	45.2	-0.1	269	0.00
	Tamil Nadu	15739	0	341.6	157.6	0.5	1102	0.00
	Puducherry	415	0	8.8	9.2	-0.4	31	0.00
	ER	Bihar	5658	0	107.3	102.8	-0.6	299
DVC		3095	0	64.7	-45.8	-0.1	342	0.21
Jharkhand		1418	0	27.5	22.4	-2.3	219	0.95
Odisha		5179	0	104.0	31.7	-1.4	290	0.00
West Bengal		7880	0	156.3	37.7	-0.8	247	0.00
Sikkim		91	0	1.4	0.1	1.2	93	0.19
NER	Arunachal Pradesh	138	0	2.4	2.6	-0.3	44	0.00
	Assam	1900	0	36.7	31.8	-0.7	155	0.00
	Manipur	199	0	2.7	2.7	0.0	22	0.00
	Meghalaya	312	0	5.5	3.0	-0.2	24	0.00
	Mizoram	95	0	1.6	1.2	0.0	19	0.00
	Nagaland	142	0	2.5	2.3	-0.2	11	0.00
	Tripura	289	0	4.9	6.4	0.2	45	0.00

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

	Bhutan	Nepal	Bangladesh
Actual (MU)	44.9	1.0	-20.2
Day Peak (MW)	2185.0	78.0	-846.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	172.1	-67.4	55.4	-156.8	-3.3	0.0
Actual(MU)	155.9	-63.1	58.7	-148.9	-6.3	-3.7
O/D/U/D(MU)	-16.1	4.4	3.3	7.9	-3.0	-3.7

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL	% Share
Central Sector	6638	19037	6982	2215	430	35301	44
State Sector	11000	21157	8798	3715	47	44716	56
Total	17638	40193	15780	5930	476	80018	100

G. Sourcewise generation (MU)

	NR	WR	SR	ER	NER	All India	% Share
Coal	471	960	466	498	12	2406	63
Lignite	25	13	46	0	0	84	2
Hydro	325	41	162	138	29	695	18
Nuclear	31	28	65	0	0	124	3
Gas, Naptha & Diesel	24	17	10	0	28	79	2
RES (Wind, Solar, Biomass & Others)	85	99	268	4	0	457	12
Total	961	1157	1018	641	68	3845	100

Share of RES in total generation (%)	8.87	8.53	26.34	0.69	0.13	11.88
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	45.92	14.49	48.69	22.25	42.07	33.18

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.042
Based on State Max Demands	1.070

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)

Sl No	Voltage Level	Line Details	No. of Circuit	Max Import (MW)	Max Export (MW)	Date of Reporting: 17-Sep-2021			
						Import (MU)	Export (MU)	NET (MU)	
<b>Import/Export of ER (With NR)</b>									
1	HVDC	ALIPURDUAR-AGRA	2	0	1600	0.0	29.8	-29.8	
2	HVDC	PUSAULI B/B	-	2	247	0.0	5.2	-5.2	
3	765 kV	GAYA-VARANASI	2	255	348	0.0	1.5	-1.5	
4	765 kV	SASARAM-FATEHPUR	1	34	325	0.0	2.5	-2.5	
5	765 kV	GAYA-BALIA	1	0	331	0.0	4.3	-4.3	
6	400 kV	PUSAULLY-VARANASI	1	21	189	0.0	3.4	-3.4	
7	400 kV	PUSAULI-ALLAHABAD	1	0	123	0.0	1.8	-1.8	
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	0	465	0.0	7.2	-7.2	
9	400 kV	PATNA-BALIA	4	0	681	0.0	10.7	-10.7	
10	400 kV	BIHARSHARIFF-BALIA	2	109	202	0.0	1.0	-1.0	
11	400 kV	MOTIHARI-GORAKHPUR	2	0	282	0.0	4.4	-4.4	
12	400 kV	BIHARSHARIFF-VARANASI	2	123	130	0.3	0.0	0.3	
13	220 kV	PUSAULI-SAHUPURI	1	53	38	0.4	0.0	0.4	
14	132 kV	SONE NAGAR-RIHAND	1	0	0	0.0	0.0	0.0	
15	132 kV	GARWAH-RIHAND	1	20	0	0.3	0.0	0.3	
16	132 kV	KARMANASA-SAHUPURI	1	0	0	0.0	0.0	0.0	
17	132 kV	KARMANASA-CHANDALI	1	0	0	0.0	0.0	0.0	
						ER-NR	0.9	71.9	-71.0
<b>Import/Export of ER (With WR)</b>									
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	482	448	0.0	0.3	-0.3	
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	584	754	2.1	0.0	2.1	
3	765 kV	JHARSUGUDA-DURG	2	4	443	0.0	4.4	-4.4	
4	400 kV	JHARSUGUDA-RAIGARH	4	0	496	0.0	6.7	-6.7	
5	400 kV	RANCHI-SIPAT	2	107	267	0.0	0.8	-0.8	
6	220 kV	BUDHIPADAR-RAIGARH	1	0	152	0.0	2.4	-2.4	
7	220 kV	BUDHIPADAR-KORBA	2	111	34	0.8	0.0	0.8	
						ER-WR	2.9	14.6	-11.7
<b>Import/Export of ER (With SR)</b>									
1	HVDC	JEYPORE-GAZIYAKA B/B	2	0	577	0.0	10.0	-10.0	
2	HVDC	TALCHER-KOLAR BIPOLE	2	0	1980	0.0	35.0	-35.0	
3	765 kV	ANGUL-SIRSAKULAM	2	0	2995	0.0	56.3	-56.3	
4	400 kV	TALCHER-IC	2	855	279	5.1	0.0	5.1	
5	220 kV	BALIMELA-UPPER-SILERRU	1	1	0	0.0	0.0	0.0	
						ER-SR	0.0	101.3	-101.3
<b>Import/Export of ER (With NER)</b>									
1	400 kV	BINAGURI-BONGAIGAON	2	0	359	0.0	5.0	-5.0	
2	400 kV	ALIPURDUAR-BONGAIGAON	2	75	333	0.0	2.9	-2.9	
3	220 kV	ALIPURDUAR-SALAKATI	2	0	110	0.0	1.6	-1.6	
						ER-NER	0.0	9.4	-9.4
<b>Import/Export of NER (With NR)</b>									
1	HVDC	BISWANATH CHARIALI-AGRA	2	0	704	0.0	17.0	-17.0	
						NER-NR	0.0	17.0	-17.0
<b>Import/Export of WR (With NR)</b>									
1	HVDC	CHAMPA-KURUKSHETRA	2	0	1805	0.0	31.9	-31.9	
2	HVDC	VINDHYACHAL B/B	-	449	0	7.0	0.0	7.0	
3	HVDC	MUNDIRA-MOHINDERGARH	2	0	443	0.0	10.9	-10.9	
4	765 kV	GWALIOR-AGRA	2	224	1230	0.2	15.7	-15.5	
5	765 kV	GWALIOR-PHAGI	2	0	2084	0.0	37.3	-37.3	
6	765 kV	JABALPUR-ORAI	2	0	650	0.0	16.9	-16.9	
7	765 kV	GWALIOR-ORAI	1	870	0	17.3	0.0	17.3	
8	765 kV	SATNA-ORAI	1	0	820	0.0	16.9	-16.9	
9	765 kV	BANASKANTHA-CHITORGARH	2	1632	0	29.0	0.0	29.0	
10	765 kV	VINDHYACHAL-VARANASI	2	0	2072	0.0	34.7	-34.7	
11	400 kV	ZERDA-KANKROLI	1	350	0	6.4	0.0	6.4	
12	400 kV	ZERDA-BHINMAL	1	529	0	8.9	0.0	8.9	
13	400 kV	VINDHYACHAL-RIHAND	1	966	0	22.1	0.0	22.1	
14	400 kV	RAPP-SHUALPUR	2	83	469	0.2	4.2	-4.0	
15	220 kV	BHANPURA-RANPUR	1	24	56	0.1	0.4	-0.4	
16	220 kV	BHANPURA-MORAK	1	0	30	0.5	0.1	0.4	
17	220 kV	MEHGAON-AURAIYA	1	136	0	1.3	0.0	1.3	
18	220 kV	MALANPUR-AURAIYA	1	103	0	1.7	0.0	1.7	
19	132 kV	GWALIOR-SAWAI MADHOPUR	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	94.6	169.0	-74.4
<b>Import/Export of WR (With SR)</b>									
1	HVDC	BHADRAWATI B/B	-	496	0	12.1	0.0	12.1	
2	HVDC	RAIGARH-PUGALUR	2	1925	502	28.0	0.0	28.0	
3	765 kV	SOLAPUR-RAICHUR	2	749	2033	0.0	15.4	-15.4	
4	765 kV	WARDHA-NIZAMABAD	2	0	2553	0.0	40.6	-40.6	
5	400 kV	KOLHAPUR-KUDGI	2	1063	0	14.9	0.0	14.9	
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	71	1.4	0.0	1.4	
						WR-SR	56.3	56.0	0.4

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)	789	0	653	15.7
	ER	400kV TALA-BINAGURI 1,2,4 & 400kV MALBASE - BINAGURI i.e. BINAGURI RECEIPT (from TALA HEP (6*170MW))	1031	0	915	22.0
	ER	220kV CHUKHA-BIRPARA 1&2 (& 220kV MALBASE - BIRPARA) i.e. BIRPARA RECEIPT (from CHUKHA HEP 4*84MW)	283	0	242	5.8
	NER	132kV GELEPHU-SALAKATI	30	19	24	0.6
	NER	132kV MOTANGA-RANGIA	51	19	36	0.9
NEPAL	NR	132kV MAHENDRANAGAR-TANAKPUR(NHPC)	0	0	0	0.0
	ER	NEPAL IMPORT (FROM BIHAR)	-5	0	0	0.0
	ER	400kV DHALKEBAR-MUZAFFARPUR 1&2	83	1	44	1.0
BANGLADESH	ER	BHERAMARA B/B HVDC (BANGLADESH)	-728	-720	-722	-17.3
	NER	132kV COMILLA-SURAJMANI NAGAR 1&2	-118	0	-118	-2.8