



**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:14<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., डोंगतिह, 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 13.09.2021.**

महोदय/Dear Sir,

आई०ई०जी०सी०-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 13-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 13<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: 14-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)	53085	46528	41662	21389	3165	165829
Peak Shortage (MW)	205	0	0	0	0	205
Energy Met (MU)	1140	1081	975	455	61	3712
Hydro Gen (MU)	353	45	151	141	30	720
Wind Gen (MU)	13	112	234	-	-	359
Solar Gen (MU)*	51.88	29.13	80.79	3.57	0.26	166
Energy Shortage (MU)	3.75	0.00	0.00	1.30	0.03	5.08
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	53085	47800	47128	21930	3211	167145
Time Of Maximum Demand Met (From NLDC SCADA)	20:00	10:59	10:17	19:11	18:18	10:17

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	0.030	0.19	0.94	2.36	3.48	81.89	14.63

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	7846	0	167.2	124.3	-1.7	115	0.00	
	Haryana	6983	0	142.3	109.0	-0.4	317	0.00	
	Rajasthan	9179	0	201.4	78.1	1.7	411	0.00	
	Delhi	4820	0	95.2	82.0	-2.0	54	0.00	
	UP	20088	0	412.1	173.1	-0.7	493	0.00	
	Uttarakhand	1947	0	42.1	12.5	0.2	260	0.00	
	HP	1511	0	30.9	-6.6	-1.1	313	0.30	
	J&K(UT) & Ladakh(UT)	2322	200	43.2	18.6	0.6	586	3.45	
	Chandigarh	265	0	5.3	6.0	-0.7	34	0.00	
	WR	Chhattisgarh	3646	0	86.0	42.9	-0.6	252	0.00
Gujarat		13409	0	294.7	158.4	2.2	557	0.00	
MP		9699	0	216.3	144.2	1.8	702	0.00	
Maharashtra		19871	0	427.3	140.7	-2.4	581	0.00	
Goa		524	0	11.0	10.1	0.3	34	0.00	
DD		335	0	7.4	6.9	0.5	41	0.00	
DNH		843	0	19.6	19.6	0.0	69	0.00	
AMNSIL		872	0	18.9	4.8	-0.7	177	0.00	
SR		Andhra Pradesh	9429	0	194.0	53.7	0.0	1067	0.00
		Telangana	10333	0	198.0	52.5	-1.5	1057	0.00
	Karnataka	9675	0	178.8	40.8	-1.2	1423	0.00	
	Kerala	3459	0	69.4	42.9	-0.6	403	0.00	
	Tamil Nadu	15358	0	326.2	134.5	-1.6	826	0.00	
	Puducherry	409	0	8.6	8.9	-0.3	52	0.00	
	Bihar	6231	0	117.3	113.1	-1.1	566	1.30	
	DVC	3128	0	64.8	-28.2	-0.1	203	0.00	
	Jharkhand	1409	0	25.8	23.5	-3.3	226	0.00	
	Odisha	4459	0	84.7	13.4	-1.0	341	0.00	
ER	West Bengal	8119	0	160.8	54.4	-1.8	511	0.00	
	Sikkim	95	0	1.4	0.2	1.2	88	0.00	
	NER	Arunachal Pradesh	138	0	2.6	2.3	0.1	63	0.00
		Assam	2105	0	40.7	34.1	0.7	134	0.03
		Manipur	206	0	2.8	2.6	0.1	27	0.00
Meghalaya		313	0	5.5	2.4	-0.1	40	0.00	
Mizoram	111	0	1.9	0.9	0.2	23	0.00		
Nagaland	142	0	2.7	2.3	-0.1	12	0.00		
Tripura	285	0	4.7	5.4	-0.8	33	0.00		

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

	Bhutan	Nepal	Bangladesh
Actual (MU)	51.4	0.1	-20.7
Day Peak (MW)	2239.0	20.1	-883.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	187.8	-69.2	0.6	-117.8	-1.4	0.0
Actual(MU)	161.4	-54.7	-1.0	-115.5	-2.4	-12.2
O/D/U/D(MU)	-26.5	14.5	-1.6	2.4	-1.0	-12.2

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL	% Share
Central Sector	6098	20843	7722	3865	409	38936	44
State Sector	10885	23007	11995	4425	11	50323	56
Total	16983	43849	19717	8290	420	89259	100

G. Sourcewise generation (MU)

	NR	WR	SR	ER	NER	All India	% Share
Coal	480	894	379	451	11	2215	58
Lignite	24	12	43	0	0	80	2
Hydro	353	45	151	141	30	720	19
Nuclear	26	28	65	0	0	120	3
Gas, Naptha & Diesel	26	25	11	0	28	89	2
RES (Wind, Solar, Biomass & Others)	84	142	348	4	0	578	15
Total	994	1146	998	595	69	3801	100

Share of RES in total generation (%)	8.43	12.39	34.88	0.60	0.38	15.19
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	46.65	18.76	56.54	24.31	43.60	37.29

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.033
Based on State Max Demands	1.074

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: 14-Sep-2021

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	1200	0.0	29.5	-29.5
2	HVDC	PUSAULI B/B	-	0	247	0.0	6.2	-6.2
3	765 kV	GAYA-VARANASI	2	466	280	1.4	0.0	1.4
4	765 kV	SASARAM-FATEHPUR	1	481	36	0.0	1.8	-1.8
5	765 kV	GAYA-BALIA	1	0	397	0.0	4.1	-4.1
6	400 kV	PUSAULLY-VARANASI	1	0	233	0.0	4.5	-4.5
7	400 kV	PUSAULI-ALLAHABAD	1	0	96	0.0	1.3	-1.3
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	0	616	0.0	9.4	-9.4
9	400 kV	PATNA-BALIA	4	7	670	0.0	7.4	-7.4
10	400 kV	BIHARSHARIFF-BALIA	2	164	104	0.0	0.6	-0.6
11	400 kV	MOTIHARI-GORAKHPUR	2	0	346	0.0	5.5	-5.5
12	400 kV	BIHARSHARIFF-VARANASI	2	232	79	1.0	0.0	1.0
13	220 kV	PUSAULI-SAHUPURI	1	25	75	0.0	0.7	-0.7
14	132 kV	SONE NAGAR-RIHAND	1	0	0	0.0	0.0	0.0
15	132 kV	GARWAH-RIHAND	1	20	0	0.4	0.0	0.4
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
<b>ER-NR</b>						<b>2.8</b>	<b>71.0</b>	<b>-68.2</b>
<b>Import/Export of ER (With WR)</b>								
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	227	853	0.0	6.6	-6.6
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	911	123	12.2	0.0	12.2
3	765 kV	JHARSUGUDA-DURG	2	5	324	0.0	2.5	-2.5
4	400 kV	JHARSUGUDA-RAIGARH	4	0	650	0.0	8.0	-8.0
5	400 kV	RANCHI-SIPAT	2	200	147	1.2	0.0	1.2
6	220 kV	BUDHIPADAR-RAIGARH	1	0	167	0.0	2.4	-2.4
7	220 kV	BUDHIPADAR-KORBA	2	75	79	0.0	0.3	-0.3
<b>ER-WR</b>						<b>13.4</b>	<b>19.9</b>	<b>-6.5</b>
<b>Import/Export of ER (With SR)</b>								
1	HVDC	JEYPORE-GAZIWAKA B/B	2	0	398	0.0	8.6	-8.6
2	HVDC	TALCHER-KOLAR BIPOLE	2	0	1638	0.0	28.7	-28.7
3	765 kV	ANGUL-SIRSAKULAM	2	0	2530	0.0	42.4	-42.4
4	400 kV	TALCHER-IC	2	805	624	10.1	0.0	10.1
5	220 kV	BALIMELA-UPPER-SILERRU	1	1	0	0.0	0.0	0.0
<b>ER-SR</b>						<b>0.0</b>	<b>79.7</b>	<b>-79.7</b>
<b>Import/Export of ER (With NER)</b>								
1	400 kV	BINAGURI-BONGAIGAON	2	37	224	0.0	2.7	-2.7
2	400 kV	ALIPURDUAR-BONGAIGAON	2	148	211	0.0	0.5	-0.5
3	220 kV	ALIPURDUAR-SALAKATI	2	0	94	0.0	1.2	-1.2
<b>ER-NER</b>						<b>0.0</b>	<b>4.4</b>	<b>-4.4</b>
<b>Import/Export of NER (With NR)</b>								
1	HVDC	BISWANATH CHARIALI-AGRA	2	0	352	0.0	8.5	-8.5
<b>NER-NR</b>						<b>0.0</b>	<b>8.5</b>	<b>-8.5</b>
<b>Import/Export of WR (With NR)</b>								
1	HVDC	CHAMPA-KURUKSHETRA	2	0	3037	0.0	39.9	-39.9
2	HVDC	VINDHYACHAL B/B	-	0	499	0.0	8.2	-8.2
3	HVDC	MUNDRA-MOHINDERGARH	2	0	442	0.0	10.9	-10.9
4	765 kV	GWALIOR-AGRA	2	221	1230	0.2	15.4	-15.2
5	765 kV	GWALIOR-PHAGI	2	0	1582	0.0	25.4	-25.4
6	765 kV	JABALPUR-ORAI	2	0	672	0.0	18.2	-18.2
7	765 kV	GWALIOR-ORAI	1	751	0	13.5	0.0	13.5
8	765 kV	SATNA-ORAI	1	0	815	0.0	15.5	-15.5
9	765 kV	BANASKANTHA-CHITORGARH	2	998	0	14.6	0.0	14.6
10	765 kV	VINDHYACHAL-VARANASI	2	0	2167	0.0	31.4	-31.4
11	400 kV	ZERDA-KANKROLI	1	256	0	4.3	0.0	4.3
12	400 kV	ZERDA-BHINMAL	1	521	0	8.5	0.0	8.5
13	400 kV	VINDHYACHAL-RIHAND	1	959	0	22.0	0.0	22.0
14	400 kV	RAPP-SHUJALPUR	2	213	215	1.4	1.0	0.4
15	220 kV	BHANPURA-RANPUR	1	0	92	0.0	1.3	-1.3
16	220 kV	BHANPURA-MORAK	1	0	30	0.0	0.7	-0.7
17	220 kV	MEHGAON-AURAIYA	1	129	0	1.0	0.0	1.0
18	220 kV	MALANPUR-AURAIYA	1	91	0	1.8	0.0	1.8
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
<b>WR-NR</b>						<b>67.4</b>	<b>167.7</b>	<b>-100.3</b>
<b>Import/Export of WR (With SR)</b>								
1	HVDC	BHADRAWATI B/B	-	990	0	19.2	0.0	19.2
2	HVDC	RAIGARH-PUGALUR	2	2147	0	28.5	0.0	28.5
3	765 kV	SOLAPUR-RAICHUR	2	1586	971	6.9	3.3	3.6
4	765 kV	WARDHA-NIZAMABAD	2	0	2141	0.0	26.2	-26.2
5	400 kV	KOLHAPUR-KUDGI	2	1296	0	19.9	0.0	19.9
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	74	1.3	0.0	1.3
<b>WR-SR</b>						<b>75.8</b>	<b>29.5</b>	<b>46.3</b>

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)	823	0	805	19.3
	ER	400kV TALA-BINAGURI 1,2,4 & 400kV MALBASE - BINAGURI i.e. BINAGURI RECEIPT (from TALA HEP (6*170MW))	1034	1021	1023	24.6
	ER	220kV CHUKHA-BIRPARA 1&2 (& 220kV MALBASE - BIRPARA) i.e. BIRPARA RECEIPT (from CHUKHA HEP 4*84MW)	295	0	245	5.9
	NER	132kV GELEPHU-SALAKATI	29	20	25	0.6
	NER	132kV MOTANGA-RANGIA	58	33	46	1.1
NEPAL	NR	132kV MAHENDRANAGAR-TANAKPUR(NHPC)	-64	0	-23	-0.6
	ER	NEPAL IMPORT (FROM BIHAR)	-10	0	-5	-0.1
	ER	400kV DHALKEBAR-MUZAFFARPUR 1&2	94	0	30	0.7
BANGLADESH	ER	BHERAMARA B/B HVDC (BANGLADESH)	-729	-713	-721	-17.3
	NER	132kV COMILLA-SURAJMANI NAGAR 1&2	-154	0	-140	-3.4