



**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> 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 15.09.2021.**

महोदय/Dear Sir,

आई०ई०जी०सी०-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 15-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 15<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: 16-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)	52330	47381	43693	21705	2983	168092
Peak Shortage (MW)	200	42	0	178	0	420
Energy Met (MU)	1135	1065	1042	428	61	3732
Hydro Gen (MU)	349	46	184	140	28	747
Wind Gen (MU)	20	60	137	-	-	216
Solar Gen (MU)*	56.91	24.92	95.45	4.00	0.31	182
Energy Shortage (MU)	10.63	0.00	0.00	2.23	0.00	12.86
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	53635	47818	49681	21764	3166	168652
Time Of Maximum Demand Met (From NLDC SCADA)	19:40	18:57	10:21	19:46	18:26	19:40

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	0.059	1.06	2.07	9.47	12.60	76.21	11.19

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	9597	0	207.2	145.8	-0.3	126	0.00
	Haryana	7920	0	161.7	121.3	-0.1	249	0.00
	Rajasthan	9358	0	207.5	83.1	1.1	293	0.00
	Delhi	4838	0	101.3	91.1	-1.1	41	0.00
	UP	16712	0	326.4	126.6	-1.6	444	7.10
	Uttarakhand	1971	80	43.4	13.2	0.4	114	0.08
	HP	1543	0	33.5	-3.7	-0.4	88	0.00
	J&K(UT) & Ladakh(UT)	2385	200	48.5	23.9	1.1	358	3.45
WR	Chandigarh	290	0	5.7	5.8	0.0	46	0.00
	Chhattisgarh	3514	0	76.7	35.7	-0.2	373	0.00
	Gujarat	13315	0	297.4	193.8	1.1	632	0.04
	MP	9107	0	197.7	125.6	-0.2	635	0.00
	Maharashtra	20136	0	436.3	143.6	-1.8	634	0.00
	Goa	565	0	11.8	10.7	0.4	82	0.00
	DD	346	0	7.7	7.4	0.3	48	0.00
	DNH	851	0	19.7	19.7	0.0	136	0.00
SR	AMNSIL	778	0	17.8	4.8	-0.8	154	0.00
	Andhra Pradesh	10207	0	205.1	76.7	0.9	462	0.00
	Telangana	10445	0	209.1	53.9	-0.4	766	0.00
	Karnataka	10103	0	195.0	52.1	3.2	1010	0.00
	Kerala	3640	0	74.0	45.3	-0.5	209	0.00
	Tamil Nadu	15786	0	350.1	165.6	-0.7	562	0.00
	Puducherry	440	0	9.2	9.3	-0.1	42	0.00
	ER	Bihar	5605	0	91.4	87.9	-1.0	596
DVC		3046	0	63.4	-46.7	0.0	310	0.00
Jharkhand		1365	0	23.2	19.3	-1.8	219	0.49
Odisha		5004	0	100.1	31.6	-1.3	211	0.00
West Bengal		7834	0	149.0	31.1	0.3	404	0.00
Sikkim		86	0	1.4	0.1	1.2	82	0.00
NER	Arunachal Pradesh	147	0	2.4	2.3	-0.1	47	0.00
	Assam	2090	0	41.1	34.3	0.1	99	0.00
	Manipur	191	0	2.7	2.7	0.0	21	0.00
	Meghalaya	292	0	5.3	2.7	-0.1	26	0.00
	Mizoram	98	0	1.6	1.3	-0.1	10	0.00
	Nagaland	130	0	2.6	2.3	-0.2	21	0.00
	Tripura	285	0	5.1	5.7	-0.1	71	0.00

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

	Bhutan	Nepal	Bangladesh
Actual (MU)	49.6	0.7	-20.2
Day Peak (MW)	2197.0	14.4	-861.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	196.0	-59.2	39.1	-175.6	-0.3	0.0
Actual(MU)	173.5	-46.9	54.2	-184.7	-2.2	-6.2
O/D/U/D(MU)	-22.5	12.3	15.1	-9.1	-1.9	-6.2

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL	% Share
Central Sector	6428	19470	7582	2215	430	36124	43
State Sector	12050	21737	10598	3925	133	48443	57
Total	18478	41206	18180	6140	563	84567	100

G. Sourcewise generation (MU)

	NR	WR	SR	ER	NER	All India	% Share
Coal	464	950	435	505	12	2366	62
Lignite	25	12	45	0	0	82	2
Hydro	349	46	184	140	28	747	19
Nuclear	28	28	65	0	0	122	3
Gas, Naptha & Diesel	22	16	11	0	28	76	2
RES (Wind, Solar, Biomass & Others)	95	85	265	4	0	450	12
Total	983	1137	1005	649	68	3842	100

Share of RES in total generation (%)	9.69	7.52	26.34	0.62	0.45	11.71
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	48.07	14.05	51.17	22.15	40.96	34.31

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.044
Based on State Max Demands	1.067

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-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	1603	0.0	38.7	-38.7	
2	HVDC	PUSAULI B/B	-	3	249	0.0	3.7	-3.7	
3	765 kV	GAYA-VARANASI	2	0	474	0.0	7.2	-7.2	
4	765 kV	SASARAM-FATEHPUR	1	0	335	0.0	4.9	-4.9	
5	765 kV	GAYA-BALIA	1	0	427	0.0	6.6	-6.6	
6	400 kV	PUSAULI-VARANASI	1	34	171	0.0	1.9	-1.9	
7	400 kV	PUSAULI-ALLAHABAD	1	16	143	0.0	1.6	-1.6	
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	0	578	0.0	10.5	-10.5	
9	400 kV	PATNA-BALIA	4	0	725	0.0	14.5	-14.5	
10	400 kV	BIHARSHARIF-BALIA	2	0	204	0.0	2.7	-2.7	
11	400 kV	MOTIHARI-GORAKHPUR	2	0	356	0.0	6.5	-6.5	
12	400 kV	BIHARSHARIF-VARANASI	2	0	201	0.0	2.6	-2.6	
13	220 kV	PUSAULI-SAHUPURI	1	12	46	0.0	0.4	-0.4	
14	132 kV	SONEG NAGAR-RIHAND	1	0	0	0.1	0.0	0.1	
15	132 kV	GARWAH-RIHAND	1	20	0	0.1	0.0	0.1	
16	132 kV	KARMANASA-SAHUPURI	1	0	0	0.0	0.0	0.0	
17	132 kV	KARMANASA-CHANDAULI	1	0	21	0.0	0.1	-0.1	
						ER-NR	0.1	101.8	-101.7
<b>Import/Export of ER (With WR)</b>									
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	447	458	0.0	0.8	-0.8	
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	622	601	3.2	0.0	3.2	
3	765 kV	JHARSUGUDA-DURG	2	0	244	0.0	3.5	-3.5	
4	400 kV	JHARSUGUDA-RAIGARH	4	0	508	0.0	7.3	-7.3	
5	400 kV	RANCHI-SIPAT	2	74	259	0.0	1.7	-1.7	
6	220 kV	BUDHIPADAR-RAIGARH	1	0	105	0.0	1.6	-1.6	
7	220 kV	BUDHIPADAR-KORBA	2	94	26	0.5	0.0	0.5	
						ER-WR	3.7	14.9	-11.2
<b>Import/Export of ER (With SR)</b>									
1	HVDC	JEYPORE-GAZUWAKA B/B	2	0	437	0.0	8.5	-8.5	
2	HVDC	TALCHER-KOLAR BIPOLE	2	0	2467	0.0	48.0	-48.0	
3	765 kV	ANGUL-SRIKAKULAM	2	0	3170	0.0	52.8	-52.8	
4	400 kV	TALCHER/JC	2	170	803	0.0	5.5	-5.5	
5	220 kV	BALIMELA-UPPER-SILERRU	1	1	0	0.0	0.0	0.0	
						ER-SR	0.0	109.3	-109.3
<b>Import/Export of ER (With NER)</b>									
1	400 kV	BINAGURI-BONGAIGAON	2	0	348	0.0	5.2	-5.2	
2	400 kV	ALIPURDUAR-BONGAIGAON	2	217	221	0.0	0.4	-0.4	
3	220 kV	ALIPURDUAR-SALAKATI	2	0	99	0.0	1.5	-1.5	
						ER-NER	0.0	7.2	-7.2
<b>Import/Export of NER (With NR)</b>									
1	HVDC	BISWANATH CHARIALI-AGRA	2	0	704	0.0	10.8	-10.8	
						NER-NR	0.0	10.8	-10.8
<b>Import/Export of WR (With NR)</b>									
1	HVDC	CHAMPA-KURUKSHETRA	2	0	1508	0.0	21.0	-21.0	
2	HVDC	VINDHYACHAL B/B	-	450	0	8.9	0.0	8.9	
3	HVDC	MUNDRU-MOHENDERGARH	2	0	443	0.0	10.9	-10.9	
4	765 kV	GWALIOR-AGRA	2	606	1464	0.0	17.6	-17.6	
5	765 kV	GWALIOR-PHAGI	2	0	2002	0.0	38.2	-38.2	
6	765 kV	JABALPUR-ORAI	2	0	688	0.0	21.3	-21.3	
7	765 kV	GWALIOR-ORAI	1	851	0	17.1	0.0	17.1	
8	765 kV	SATNA-ORAI	1	0	842	0.0	17.7	-17.7	
9	765 kV	BANASKANTHA-CHITORGARH	2	1632	0	28.5	0.0	28.5	
10	765 kV	VINDHYACHAL-VARANASI	2	0	2330	0.0	34.4	-34.4	
11	400 kV	ZERDA-KANKROLI	1	357	0	6.4	0.0	6.4	
12	400 kV	ZERDA-BHINMAL	1	632	560	11.0	0.0	11.0	
13	400 kV	VINDHYACHAL-RIHAND	1	957	0	21.9	0.0	21.9	
14	400 kV	RAPP-SHUJALPUR	2	141	421	0.0	3.6	-3.6	
15	220 kV	BHANPURA-RANPUR	1	0	94	0.0	1.3	-1.3	
16	220 kV	BHANPURA-MORAK	1	0	30	0.0	0.6	-0.6	
17	220 kV	MEHGAON-AURAIYA	1	145	0	1.4	0.0	1.4	
18	220 kV	MALANPUR-AURAIYA	1	112	0	2.0	0.0	2.0	
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	97.3	166.5	-69.2
<b>Import/Export of WR (With SR)</b>									
1	HVDC	BHADRAWATI B/B	-	987	0	14.8	0.0	14.8	
2	HVDC	RAIGARH-PUGALUR	2	2151	0	20.1	0.0	20.1	
3	765 kV	SOLAPUR-RAICHUR	2	535	2164	0.0	11.6	-11.6	
4	765 kV	WARDHA-NIZAMABAD	2	0	2335	0.0	30.9	-30.9	
5	400 kV	KOLHAPUR-KUDGI	2	1143	0	16.9	0.0	16.9	
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	1	74	1.4	0.0	1.4	
						WR-SR	53.2	42.5	10.7

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)	816	0	740	17.8
	ER	400kV TALA-BINAGURI 1,2,3 (& 400kV MALBASE - BINAGURI) i.e. BINAGURI RECEIPT (from TALA HEP (6*170MW) 220kV CHUKHA-BIRPARA 1&2 (& 220kV MALBASE - BIRPARA) i.e. BIRPARA RECEIPT (from CHUKHA HEP 4*84MW)	1026	1010	1013	24.3
	ER	280	0	256	6.2	
	NER	132kV GELEPHU-SALAKATI	27	19	23	0.6
	NER	132kV MOTANGA-RANGIA	48	24	36	0.9
NEPAL	NR	132kV MAHENDRANAGAR-TANAKPUR(NHPC)	-42	0	-4	-0.1
	ER	NEPAL IMPORT (FROM BIHAR)	-10	0	-4	-0.1
BANGLADESH	ER	400kV DHALKEBAR-MUZAFFARPUR 1&2	66	31	39	0.9
	ER	BHERAMARA B/B HVDC (BANGLADESH)	-721	-715	-716	-17.2
BANGLADESH	NER	132kV COMILLA-SURAJMANI NAGAR 1&2	-140	0	-124	-3.0