



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: 25th 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 24.09.2021.

महोदय/Dear Sir,

आई०ई०जी०सी०-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 24-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 24th 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: 25-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)	51728	48740	41737	22240	3149	167594
Peak Shortage (MW)	200	553	0	2215	0	2968
Energy Met (MU)	1056	1121	996	493	61	3726
Hydro Gen (MU)	313	58	171	126	22	689
Wind Gen (MU)	7	40	52	-	-	99
Solar Gen (MU)*	36.16	29.13	214.49	4.72	0.30	285
Energy Shortage (MU)	3.90	1.40	0.00	6.55	0.00	11.85
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	52562	49948	47558	23266	3195	168402
Time Of Maximum Demand Met (From NLDC SCADA)	19:33	11:14	10:23	21:00	18:19	19:12

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	0.089	3.32	2.04	4.87	10.23	78.21	11.56

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	7205	0	160.2	128.4	-7.9	76	0.00
	Haryana	6999	0	140.3	97.8	-0.8	255	0.04
	Rajasthan	8706	0	189.2	47.6	-1.9	272	0.00
	Delhi	4759	0	97.6	87.1	-1.4	85	0.00
	UP	18661	0	346.4	121.9	-3.1	364	0.03
	Uttarakhand	1875	0	40.9	15.3	0.8	312	0.20
	HP	1417	0	30.0	-2.4	-1.3	43	0.18
	J&K(UT) & Ladakh(UT)	2374	250	46.5	24.2	0.8	277	3.45
WR	Chandigarh	227	0	4.5	5.1	-0.6	4	0.00
	Chhattisgarh	3897	0	88.5	47.4	1.9	543	1.20
	Gujarat	14213	0	319.5	195.2	-13.6	642	0.10
	MP	9941	0	215.7	129.3	-2.0	412	0.00
	Maharashtra	20069	0	440.0	169.4	-2.0	1283	0.00
	Goa	585	40	12.4	11.8	0.2	61	0.10
	DD	329	0	7.5	6.9	0.6	102	0.00
	DNH	855	0	19.7	19.7	0.0	43	0.00
SR	AMNSIL	781	0	17.4	4.6	-0.6	215	0.00
	Andhra Pradesh	9351	0	192.0	84.1	0.8	1699	0.00
	Telangana	9506	0	191.5	39.9	-2.4	503	0.00
	Karnataka	11283	0	207.9	40.4	-1.1	745	0.00
	Kerala	3747	0	77.1	47.7	-1.9	187	0.00
	Tamil Nadu	14521	0	318.5	170.9	-3.1	687	0.00
	Puducherry	427	0	8.9	9.0	-0.1	33	0.00
	ER	Bihar	5994	0	113.8	107.5	0.8	614
DVC		3268	0	69.5	-37.3	-1.9	146	0.00
Jharkhand		1418	0	27.4	21.3	-2.3	189	2.74
Odisha		5346	0	109.6	34.2	-1.8	279	0.00
West Bengal		8697	0	170.9	52.2	1.6	465	0.00
Sikkim		94	0	1.4	1.4	0.0	30	0.00
NER	Arunachal Pradesh	130	0	2.4	2.1	0.1	11	0.00
	Assam	2098	0	40.6	32.1	0.9	129	0.00
	Manipur	196	0	2.7	2.7	0.0	27	0.00
	Meghalaya	315	0	5.7	2.3	0.0	70	0.00
	Mizoram	98	0	1.6	0.9	0.0	17	0.00
	Nagaland	134	0	2.5	2.1	-0.1	25	0.00
	Tripura	308	0	5.7	6.4	0.4	99	0.00

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

	Bhutan	Nepal	Bangladesh
Actual (MU)	37.9	1.5	-20.3
Day Peak (MW)	1707.0	161.0	-870.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	114.1	-30.6	21.8	-108.6	3.4	0.0
Actual(MU)	84.3	-17.7	33.6	-109.7	4.2	-5.2
O/D/U/D(MU)	-29.7	12.9	11.8	-1.1	0.9	-5.2

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL	% Share
Central Sector	4248	18805	7572	2875	709	34209	44
State Sector	10555	20757	8208	3755	112	43387	56
Total	14803	39562	15780	6630	821	77596	100

G. Sourcewise generation (MU)

	NR	WR	SR	ER	NER	All India	% Share
Coal	541	989	537	493	10	2570	65
Lignite	23	8	33	0	0	63	2
Hydro	313	58	171	126	22	689	17
Nuclear	31	29	53	0	0	113	3
Gas, Naptha & Diesel	33	19	19	0	30	101	3
RES (Wind, Solar, Biomass & Others)	59	70	298	5	0	432	11
Total	999	1173	1110	623	62	3968	100
Share of RES in total generation (%)	5.94	5.94	26.83	0.76	0.48	10.89	
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	40.30	13.39	47.01	20.93	35.35	31.10	

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.048
Based on State Max Demands	1.068

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: 25-Sep-2021

Sl No	Voltage Level	Line Details	No. of Circuit	Max Import (MW)	Max Export (MW)	Import (MU)	Export (MU)	NET (MU)	
Import/Export of ER (With NR)									
1	HVDC	ALIPURDUAR-AGRA	2	0	1650	0.0	29.2	-29.2	
2	HVDC	PUSAULI B/B	-	2	247	0.0	6.0	-6.0	
3	765 kV	GAYA-VARANASI	2	441	97	1.8	0.0	2.4	
4	765 kV	SASARAM-FATEHPUR	1	220	68	0.0	1.8	1.8	
5	765 kV	GAYA-BALIA	1	62	349	0.0	3.3	-3.3	
6	400 kV	PUSAULI-VARANASI	1	0	224	0.0	4.4	-4.4	
7	400 kV	PUSAULI-ALLAHABAD	1	24	95	0.0	1.3	-1.3	
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	59	455	0.0	3.4	-3.4	
9	400 kV	PATNA-BALIA	4	124	338	0.0	2.4	-2.4	
10	400 kV	BIHARSHARIF-BALIA	2	298	11	3.7	0.0	3.7	
11	400 kV	MOTIHARI-GORAKHPUR	2	0	299	0.0	2.9	-2.9	
12	400 kV	BIHARSHARIF-VARANASI	2	183	21	2.9	0.0	2.9	
13	220 kV	PUSAULI-SAHUPURI	1	53	102	0.2	0.0	0.2	
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-CHANDAULI	1	0	0	0.0	0.0	0.0	
						ER-NR	11.4	52.8	-41.5
Import/Export of ER (With WR)									
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	9	786	0.0	9.0	-9.0	
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	1071	487	9.6	0.0	9.6	
3	765 kV	JHARSUGUDA-DURG	2	39	413	0.0	4.7	-4.7	
4	400 kV	JHARSUGUDA-RAIGARH	4	0	640	0.0	8.2	-8.2	
5	400 kV	RANCHI-SIPAT	2	218	220	0.9	0.0	0.9	
6	220 kV	BUDHIPADAR-RAIGARH	1	0	127	0.0	1.9	-1.9	
7	220 kV	BUDHIPADAR-KORBA	2	85	37	0.5	0.0	0.5	
						ER-WR	11.0	23.8	-12.8
Import/Export of ER (With SR)									
1	HVDC	JEYPORE-GAZUWAKA B/B	2	929	448	0.0	10.0	-10.0	
2	HVDC	TALCHER-OLAR BIPOLE	2	0	993	0.0	24.1	-24.1	
3	765 kV	ANGUL-SRIKAKULAM	2	0	2254	0.0	38.6	-38.6	
4	400 kV	TALCHER-IC	2	417	0	8.5	0.0	8.5	
5	220 kV	BALIMELA-UPPER-SILERRU	1	1	0	0.0	0.0	0.0	
						ER-SR	0.0	72.7	-72.7
Import/Export of ER (With NER)									
1	400 kV	BINAGURI-BONGAIGAON	2	0	410	0.0	8.9	-8.9	
2	400 kV	ALIPURDUAR-BONGAIGAON	2	0	668	0.0	8.0	-8.0	
3	220 kV	ALIPURDUAR-SALAKATI	2	0	161	0.0	2.5	-2.5	
						ER-NER	0.0	19.5	-19.5
Import/Export of NER (With NR)									
1	HVDC	BISWANATH CHARIALI-AGRA	2	0	703	0.0	16.9	-16.9	
						NER-NR	0.0	16.9	-16.9
Import/Export of WR (With NR)									
1	HVDC	CHAMPA-KURUKSHETRA	2	0	956	0.0	21.2	-21.2	
2	HVDC	VINDHYACHAL B/B	-	493	103	8.9	0.0	8.9	
3	HVDC	MUNDRYA-MOHINDERGARH	2	0	489	0.0	11.0	-11.0	
4	765 kV	GWALIOR-AGRA	2	715	1023	1.3	11.3	-10.0	
5	765 kV	GWALIOR-PHAGI	2	0	1471	0.0	26.3	-26.3	
6	765 kV	JABALPUR-ORAI	2	67	439	0.0	11.6	-11.6	
7	765 kV	GWALIOR-ORAI	1	841	0	16.6	0.0	16.6	
8	765 kV	SATNA-ORAI	1	0	741	0.0	15.4	-15.4	
9	765 kV	BANASKANTHA-CHITORGARH	2	1959	0	35.0	0.0	35.0	
10	765 kV	VINDHYACHAL-VARANASI	2	0	2908	0.0	48.5	-48.5	
11	400 kV	ZERDA-KANKROLI	1	447	0	8.4	0.0	8.4	
12	400 kV	ZERDA-BHINMAL	1	668	0	12.7	0.0	12.7	
13	400 kV	VINDHYACHAL-RIHAND	1	967	0	22.1	0.0	22.1	
14	400 kV	RAPP-SHUALPUR	2	234	169	1.9	0.6	1.3	
15	220 kV	BHANPURA-RANPUR	1	76	19	0.6	0.0	0.6	
16	220 kV	BHANPURA-MORAK	1	0	30	1.7	0.0	1.7	
17	220 kV	MEHGAON-AURAIYA	1	159	0	1.5	0.0	1.5	
18	220 kV	MALANPUR-AURAIYA	1	122	0	2.3	0.0	2.3	
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	112.9	145.8	-32.9
Import/Export of WR (With SR)									
1	HVDC	BHADRAWATI B/B	-	395	573	0.0	12.6	-12.6	
2	HVDC	RAIGARH-PUGALUR	2	0	501	0.0	12.2	-12.2	
3	765 kV	SOLAPUR-RAICHUR	2	1603	769	11.0	0.0	11.0	
4	765 kV	WARDHA-NIZAMABAD	2	582	1251	2.2	10.3	-8.1	
5	400 kV	KOLHAPUR-KUDGI	2	1291	0	23.9	0.0	23.9	
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	78	1.4	0.0	1.4	
						WR-SR	38.5	35.0	3.5

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 i.e. ALIPURDUAR RECEIPT (from MANGDECHHU HEP 4*180MW)	562	0	524	12.6
	ER	400kV TALA-BINAGURI 1&2 i.e. BINAGURI MALBASE - BINAGURI RECEIPT (from TALA HEP (6*170MW))	770	745	745	17.9
	ER	220kV CHUKHA-BIRPARA 1&2 (& 220kV MALBASE - BIRPARA) i.e. BIRPARA RECEIPT (from CHUKHA HEP 4*84MW)	281	0	238	5.7
	NER	132kV GELEPHU-SALAKATI	31	20	24	0.6
	NER	132kV MOTANGA-RANGIA	63	28	49	1.2
NEPAL	NR	132kV MAHENDRANAGAR-TANAKPUR(NHPC)	-55	0	-3	-0.1
	ER	NEPAL IMPORT (FROM BIHAR)	127	-9	38	0.9
	ER	400kV DHALKEBAR-MUZAFFARPUR 1&2	89	-83	27	0.7
BANGLADESH	ER	BHERAMARA B/B HVDC (BANGLADESH)	-725	-716	-718	-17.2
	NER	132kV COMILLA-SURAJMANI NAGAR 1&2	-145	0	-128	-3.1