



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: 15th Oct 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 14.10.2021.

महोदय/Dear Sir,

आईईजीसी-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 14-अक्टूबर-2021 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 14th October 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: 15-Oct-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 19:00 hrs; from RLDCs)	52446	53025	37701	21071	2929	167172
Peak Shortage (MW)	2501	638	0	93	0	3232
Energy Met (MU)	1185	1231	901	465	57	3838
Hydro Gen (MU)	199	51	154	92	22	519
Wind Gen (MU)	2	41	60	-	-	103
Solar Gen (MU)*	65.30	42.56	92.42	4.53	0.31	205
Energy Shortage (MU)	21.31	4.08	0.76	3.82	0.00	29.97
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	54123	54185	42000	21559	3026	170335
Time Of Maximum Demand Met (From NLDC SCADA)	18:54	18:54	10:04	00:00	18:08	18:50

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	0.029	0.00	0.56	3.74	4.29	78.85	16.86

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	8331	0	179.0	98.4	-1.1	193	5.08
	Haryana	7859	0	156.8	106.0	-0.1	298	8.50
	Rajasthan	11809	0	241.6	84.3	1.4	322	3.87
	Delhi	4160	0	89.0	72.8	-2.1	72	0.00
	UP	20115	0	393.1	183.5	-2.1	520	0.00
	Uttarakhand	1924	0	40.6	21.9	0.9	163	0.41
	HP	1568	0	32.5	14.3	-0.8	142	0.00
	J&K(UT) & Ladakh(UT)	2609	200	48.4	37.3	-0.8	454	3.45
	Chandigarh	216	0	4.3	4.6	-0.4	7	0.00
	WR	Chhattisgarh	4255	0	101.4	58.3	1.5	289
Gujarat		16289	69	363.9	199.4	2.9	594	4.08
MP		10487	0	234.7	143.6	-3.0	496	0.00
Maharashtra		21095	0	470.9	140.2	0.5	477	0.00
Goa		595	0	13.7	12.2	0.8	69	0.00
DD		325	0	7.4	7.0	0.4	56	0.00
DNH		860	0	20.1	19.6	0.5	109	0.00
AMNSIL		839	0	18.6	8.8	0.5	286	0.00
Andhra Pradesh		9339	0	191.0	92.6	4.0	804	0.76
Telangana		10182	0	204.9	44.6	-2.0	546	0.00
SR	Karnataka	8286	0	162.8	14.9	-2.1	604	0.00
	Kerala	3404	0	69.7	37.1	-0.7	161	0.00
	Tamil Nadu	11896	0	265.3	96.0	-2.0	547	0.00
	Puducherry	309	0	6.8	7.4	-0.6	39	0.00
	ER	Bihar	5863	0	117.7	113.0	-1.7	349
DVC		2930	0	66.8	-32.8	1.7	265	0.57
Jharkhand		1469	93	29.1	23.8	-3.0	109	2.10
Odisha		4998	0	105.3	30.4	-2.0	346	0.00
West Bengal		7680	0	144.8	12.0	-1.4	388	0.00
Sikkim		75	0	1.2	1.5	-0.3	21	0.00
NER	Arunachal Pradesh	125	0	2.3	2.2	-0.1	13	0.00
	Assam	1885	0	37.3	30.7	-1.0	85	0.00
	Manipur	202	0	2.6	2.8	-0.2	47	0.00
	Meghalaya	296	0	5.3	3.1	-0.1	38	0.00
	Mizoram	109	0	1.7	1.2	-0.2	10	0.00
	Nagaland	140	0	2.3	2.0	0.0	36	0.00
	Tripura	316	0	5.8	4.9	-0.1	100	0.00

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

	Bhutan	Nepal	Bangladesh
Actual (MU)	22.7	7.6	-20.0
Day Peak (MW)	1191.0	517.0	-850.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	259.8	-79.0	-58.2	-126.0	3.4	0.0
Actual(MU)	241.3	-69.3	-58.6	-119.4	0.1	-5.9
O/D/U/D(MU)	-18.5	9.7	-0.4	6.6	-3.4	-5.9

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL	% Share
Central Sector	4187	16012	8272	1610	465	30546	45
State Sector	8545	17909	7970	3535	11	37970	55
Total	12732	33921	16242	5145	476	68516	100

G. Sourcewise generation (MU)

	NR	WR	SR	ER	NER	All India	% Share
Coal	591	1109	512	499	10	2720	70
Lignite	21	8	35	0	0	64	2
Hydro	199	51	154	92	22	519	13
Nuclear	30	33	69	0	0	132	3
Gas, Naptha & Diesel	35	34	17	0	30	115	3
RES (Wind, Solar, Biomass & Others)	80	84	182	5	0	352	9
Total	957	1319	970	595	63	3902	100

Share of RES in total generation (%)	8.40	6.39	18.82	0.76	0.50	9.02
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	32.39	12.76	41.85	16.22	35.63	25.70

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.027
Based on State Max Demands	1.073

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: 15-Oct-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	1498	0.0	20.4	-20.4	
2	HVDC	PUSAULI B/B	-	0	249	0.0	6.2	-6.2	
3	765 kV	GAYA-VARANASI	2	296	358	0.0	2.1	-2.1	
4	765 kV	SASARAM-FATEHPUR	1	55	313	0.0	3.2	-3.2	
5	765 kV	GAYA-BALIA	1	0	465	0.0	9.1	-9.1	
6	400 kV	PUSAULI-VARANASI	1	0	180	0.0	3.4	-3.4	
7	400 kV	PUSAULI-ALLAHABAD	1	0	160	0.0	2.7	-2.7	
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	0	562	0.0	8.7	-8.7	
9	400 kV	PATNA-BALIA	4	0	545	0.0	9.4	-9.4	
10	400 kV	BIHARSHARIFF-BALIA	2	101	161	0.0	0.9	-0.9	
11	400 kV	MOTIHARI-GORAKHPUR	2	0	309	0.0	5.2	-5.2	
12	400 kV	BIHARSHARIFF-VARANASI	2	91	171	0.0	0.7	-0.7	
13	220 kV	PUSAULI-SAHUPURI	1	0	85	0.0	1.3	-1.3	
14	132 kV	SONE NAGAR-RIHAND	1	0	0	0.0	0.1	-0.1	
15	132 kV	GARWAH-RIHAND	1	20	0	0.5	0.0	0.5	
16	132 kV	KARMANASA-SAHUPURI	1	0	0	0.0	0.0	0.0	
17	132 kV	KARMANASA-CHANDAUJI	1	0	0	0.0	0.0	0.0	
						ER-NR	0.5	73.3	-72.8
Import/Export of ER (With WR)									
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	0	1163	0.0	13.8	-13.8	
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	779	501	5.8	0.0	5.8	
3	765 kV	JHARSUGUDA-DURG	2	153	274	0.0	0.6	-0.6	
4	400 kV	JHARSUGUDA-RAIGARH	4	0	501	0.0	7.1	-7.1	
5	400 kV	RANCHI-SIPAT	2	191	166	1.4	0.0	1.4	
6	220 kV	BUDHIPADAR-RAIGARH	1	0	180	0.0	3.4	-3.4	
7	220 kV	BUDHIPADAR-KORBA	2	40	131	0.0	1.5	-1.5	
						ER-WR	7.2	26.2	-19.0
Import/Export of ER (With SR)									
1	HVDC	JEYPORE-GAZUWAKA B/B	2	288	0	6.2	0.0	6.2	
2	HVDC	TALCHER-KOLAR BIPOLE	2	0	1289	0.0	20.3	-20.3	
3	765 kV	ANGUL-SRIKAKULAM	2	0	2308	0.0	41.2	-41.2	
4	400 kV	TALCHER-I/C	2	1096	0	12.1	0.0	12.1	
5	220 kV	BALMEL A-UPPER-SILERRU	1	2	0	0.0	0.0	0.0	
						ER-SR	6.2	61.5	-55.3
Import/Export of ER (With NER)									
1	400 kV	BINAGURI-BONGAIGAON	2	0	312	0.0	5.3	-5.3	
2	400 kV	ALIPURDUAR-BONGAIGAON	2	130	354	0.0	3.0	-3.0	
3	220 kV	ALIPURDUAR-SALAKATI	2	0	102	0.0	1.5	-1.5	
						ER-NER	0.0	9.8	-9.8
Import/Export of NER (With NR)									
1	HVDC	BISWANATH CHARIAL-AGRA	2	0	704	0.0	10.7	-10.7	
						NER-NR	0.0	10.7	-10.7
Import/Export of WR (With NR)									
1	HVDC	CHAMPA-KURUKSHETRA	2	0	3530	0.0	63.8	-63.8	
2	HVDC	VINDHYACHAL B/B	-	364	0	9.7	0.0	9.7	
3	HVDC	MUNDRA-MOHINDERGARH	2	0	496	0.0	8.7	-8.7	
4	765 kV	GWALIOR-AGRA	2	0	1623	0.0	25.4	-25.4	
5	765 kV	GWALIOR-PHAGI	2	0	1909	0.0	39.1	-39.1	
6	765 kV	JABALPUR-ORAI	2	0	890	0.0	33.1	-33.1	
7	765 kV	GWALIOR-ORAI	1	678	0	13.1	0.0	13.1	
8	765 kV	SAINA-ORAI	1	0	1045	0.0	22.1	-22.1	
9	765 kV	BANASKANTHA-CHITORGARH	2	1780	0	26.6	0.0	26.6	
10	765 kV	VINDHYACHAL-VARANASI	0	0	2919	0.0	57.9	-57.9	
11	400 kV	ZERDA-KANKROLI	1	355	0	5.8	0.0	5.8	
12	400 kV	ZERDA-BHINMAL	1	425	0	6.4	0.0	6.4	
13	400 kV	VINDHYACHAL-RIHAND	1	976	0	21.8	0.0	21.8	
14	400 kV	RAPP-SHILALPUR	2	36	321	0.0	4.6	-4.6	
15	220 kV	BHANPURA-RANPUR	1	52	62	0.1	0.4	-0.3	
16	220 kV	BHANPURA-MORAK	1	0	30	0.6	0.1	0.6	
17	220 kV	MEHGAON-AURAIYA	1	127	0	1.3	0.0	1.3	
18	220 kV	MALANPUR-AURAIYA	1	90	0	2.1	0.0	2.1	
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	87.6	255.2	-167.5
Import/Export of WR (With SR)									
1	HVDC	BHADRAWATI B/B	-	994	0	24.0	0.0	24.0	
2	HVDC	RAIGARH-PUGALUR	2	2149	0	36.0	0.0	36.0	
3	765 kV	SOLAPUR-RAICHUR	2	1763	671	13.1	0.0	13.1	
4	765 kV	WARDHA-NIZAMABAD	2	0	1750	0.0	22.9	-22.9	
5	400 kV	KOLHAPUR-KUDGI	2	1588	0	27.6	0.0	27.6	
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	78	1.6	0.0	1.6	
						WR-SR	102.2	22.9	79.3

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)	499	0	306	7.4
	ER	400kV TALA-BINAGURI 1,2,4 (& 400kV MALBASE - BINAGURI) i.e. BINAGURI RECEIPT (from TALA HEP (6*170MW))	466	436	460	11.0
	ER	220kV CHUKHA-BIRPARA 1&2 (& 220kV MALBASE - BIRPARA) i.e. BIRPARA RECEIPT (from CHUKHA HEP 4*84MW)	158	0	131	3.2
	NER	132kV GELEPHU-SALAKATI	24	8	13	0.3
	NER	132kV MOTANGA-RANGIA	45	0	36	0.9
NEPAL	NR	132kV MAHENDRANAGAR-TANAKPUR(NHPC)	-44	0	-3	-0.1
	ER	NEPAL IMPORT (FROM BIHAR)	204	45	118	2.8
	ER	400kV DHALKEBAR-MUZAFFARPUR 1&2	357	13	203	4.9
BANGLADESH	ER	BHERAMARA B/B HVDC (BANGLADESH)	-716	-709	-713	-17.1
	NER	132kV COMILLA-SURAJMANI NAGAR 1&2	-134	0	-119	-2.9