



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: 17th 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 16.10.2021.

महोदय/Dear Sir,

आई०ई०जी०सी०-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 16-अक्टूबर-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 16th 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: 17-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)	51753	51356	37844	20039	3078	164070
Peak Shortage (MW)	1376	1972	0	201	0	3549
Energy Met (MU)	1134	1187	879	454	58	3712
Hydro Gen (MU)	196	40	159	90	22	506
Wind Gen (MU)	2	19	37	-	-	58
Solar Gen (MU)*	65.53	36.60	80.46	4.48	0.29	187
Energy Shortage (MU)	25.61	11.37	0.00	14.19	0.00	51.17
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	53802	52839	41558	21233	3087	167577
Time Of Maximum Demand Met (From NLDC SCADA)	19:22	15:21	09:29	22:58	18:38	18:56

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	0.063	0.80	3.09	10.39	14.28	79.25	6.47

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	7324	0	161.2	85.3	-1.7	100	2.10
	Haryana	7519	0	145.4	93.0	1.5	486	6.19
	Rajasthan	10907	586	230.5	74.5	2.2	538	13.05
	Delhi	4084	0	84.5	67.9	-0.5	114	0.00
	UP	19958	0	389.7	168.3	0.0	250	0.70
	Uttarakhand	1899	0	39.6	22.3	0.5	88	0.12
	HP	1555	0	31.2	12.9	-0.7	129	0.00
	J&K(UT) & Ladakh(UT)	2366	200	47.6	36.4	0.4	341	3.45
	Chandigarh	221	0	4.1	4.2	-0.1	30	0.00
	Chhattisgarh	4181	0	97.3	47.1	0.3	226	0.00
WR	Gujarat	15902	0	355.0	204.4	2.9	769	11.22
	MP	10306	0	227.6	142.6	-1.8	465	0.00
	Maharashtra	20651	0	450.3	150.7	-1.0	743	0.00
	Goa	592	50	13.5	11.8	1.0	57	0.15
	DD	333	0	6.5	6.1	0.4	83	0.00
	DNH	839	0	18.3	18.3	0.0	53	0.00
	AMNSIL	862	0	18.8	8.1	-0.4	293	0.00
SR	Andhra Pradesh	8514	0	182.0	73.9	1.6	791	0.00
	Telangana	8365	0	169.3	46.0	-3.8	417	0.00
	Karnataka	8243	0	159.2	7.2	-0.9	865	0.00
	Kerala	3234	0	69.4	40.3	-1.0	355	0.00
	Tamil Nadu	13318	0	290.1	135.7	-0.7	671	0.00
	Puducherry	411	0	8.5	8.6	-0.1	62	0.00
ER	Bihar	5839	0	111.3	102.2	2.6	474	10.98
	DVC	2981	0	62.7	-29.4	1.3	372	1.25
	Jharkhand	1324	0	27.4	20.9	-1.6	140	1.96
	Odisha	5128	0	110.6	27.2	-1.0	316	0.00
	West Bengal	7281	0	141.5	17.4	-1.0	331	0.00
NER	Sikkim	67	0	1.1	1.4	-0.3	13	0.00
	Arunachal Pradesh	131	0	2.3	2.2	-0.1	25	0.00
	Assam	2038	0	37.5	29.4	0.1	100	0.00
	Manipur	202	0	2.8	2.7	0.0	26	0.00
	Meghalaya	329	0	5.7	3.0	-0.1	22	0.00
	Mizoram	109	0	1.7	1.2	-0.1	16	0.00
	Nagaland	147	0	2.5	1.9	0.2	36	0.00
	Tripura	285	0	5.3	4.5	-0.1	36	0.00

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

	Bhutan	Nepal	Bangladesh
Actual (MU)	22.5	4.1	-20.6
Day Peak (MW)	1037.0	373.3	-891.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	219.4	-77.1	-28.8	-116.0	2.5	0.0
Actual(MU)	222.8	-82.6	-33.0	-114.0	0.1	-6.6
O/D/U/D(MU)	3.4	-5.5	-4.2	2.0	-2.4	-6.6

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL	% Share
Central Sector	5898	14013	8242	1610	490	30252	41
State Sector	10030	18782	9505	4645	11	42972	59
Total	15928	32794	17747	6255	501	73224	100

G. Sourcewise generation (MU)

	NR	WR	SR	ER	NER	All India	% Share
Coal	588	1125	496	491	11	2711	72
Lignite	25	8	40	0	0	73	2
Hvdro	196	40	159	90	22	506	13
Nuclear	23	33	65	0	0	121	3
Gas, Naptha & Diesel	22	23	16	0	31	91	2
RES (Wind, Solar, Biomass & Others)	80	56	148	4	0	289	8
Total	933	1285	924	585	63	3791	100
Share of RES in total generation (%)	8.60	4.35	16.02	0.76	0.46	7.62	
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	32.07	10.01	40.18	16.06	34.49	24.14	

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.029
Based on State Max Demands	1.059

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: 17-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	37.9	-37.9	
2	HVDC	PUSAULI B/B	-	0	247	0.0	6.1	-6.1	
3	765 kV	GAYA-VARANASI	2	365	250	1.4	0.0	1.4	
4	765 kV	SASARAM-FATEHPUR	1	130	119	0.1	0.0	0.1	
5	765 kV	GAYA-BALIA	1	0	420	0.0	8.1	-8.1	
6	400 kV	PUSAULI-VARANASI	1	0	184	0.0	3.7	-3.7	
7	400 kV	PUSAULI-ALLAHABAD	1	0	136	0.0	2.2	-2.2	
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	3	480	0.0	5.5	-5.5	
9	400 kV	PATNA-BALIA	4	0	462	0.0	5.6	-5.6	
10	400 kV	BIHARSHARIFF-BALIA	2	164	119	1.0	0.0	1.0	
11	400 kV	MOTIHARI-GORAKHPUR	2	0	266	0.0	3.6	-3.6	
12	400 kV	BIHARSHARIFF-VARANASI	2	126	121	0.9	0.0	0.9	
13	220 kV	PUSAULI-SAHUPURI	1	26	79	0.0	0.8	-0.8	
14	132 kV	SONENAGAR-RIHAND	1	0	0	0.0	0.0	0.0	
15	132 kV	GARWAH-RIHAND	1	0	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	3.9	73.4	-69.5
Import/Export of ER (With WR)									
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	0	1030	0.0	13.0	-13.0	
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	803	155	9.1	0.0	9.1	
3	765 kV	JHARSUGUDA-DURG	2	114	113	0.0	0.1	-0.1	
4	400 kV	JHARSUGUDA-RAIGARH	4	0	360	0.0	4.6	-4.6	
5	400 kV	RANCHI-SIPAT	2	216	40	2.1	0.0	2.1	
6	220 kV	BUDHIPADAR-RAIGARH	1	0	170	0.0	2.9	-2.9	
7	220 kV	BUDHIPADAR-KORBA	2	88	11	1.2	0.0	1.2	
						ER-WR	12.4	20.5	-8.1
Import/Export of ER (With SR)									
1	HVDC	JEYPORE-GAZUWAKA B/B	2	0	557	0.0	7.3	-7.3	
2	HVDC	TALCHER-KOLAR BIPOLE	2	0	1093	0.0	21.8	-21.8	
3	765 kV	ANGUL-SRIKAKULAM	2	0	2197	0.0	36.0	-36.0	
4	400 kV	TALCHER-I/C	2	961	0	11.3	0.0	11.3	
5	220 kV	BALMELA-UPPER-SILERRU	1	2	0	0.0	0.0	0.0	
						ER-SR	0.0	65.2	-65.2
Import/Export of ER (With NER)									
1	400 kV	BINAGURI-BONGAIGAON	2	0	402	0.0	7.1	-7.1	
2	400 kV	ALIPURDUAR-BONGAIGAON	2	98	219	0.0	0.7	-0.7	
3	220 kV	ALIPURDUAR-SALAKATI	2	0	95	0.0	1.4	-1.4	
						ER-NER	0.0	9.3	-9.3
Import/Export of NER (With NR)									
1	HVDC	BISWANATH CHARIALI-AGRA	2	0	504	0.0	10.5	-10.5	
						NER-NR	0.0	10.5	-10.5
Import/Export of WR (With NR)									
1	HVDC	CHAMPA-KURUKSHETRA	2	0	3025	0.0	60.1	-60.1	
2	HVDC	VINDHYACHAL B/B	-	364	0	5.4	0.0	5.4	
3	HVDC	MUNDRAMOHINDERGARH	2	0	398	0.0	6.6	-6.6	
4	765 kV	GWALIOR-AGRA	2	0	1691	0.0	27.5	-27.5	
5	765 kV	GWALIOR-PHAGI	2	0	1906	0.0	37.2	-37.2	
6	765 kV	JABALPUR-ORAI	2	0	782	0.0	29.8	-29.8	
7	765 kV	GWALIOR-ORAI	1	858	0	16.1	0.0	16.1	
8	765 kV	SATNA-ORAI	1	0	956	0.0	19.7	-19.7	
9	765 kV	BANASKANTHA-CHITORGARH	2	1511	0	28.1	0.0	28.1	
10	765 kV	VINDHYACHAL-VARANASI	2	0	3003	0.0	56.4	-56.4	
11	400 kV	ZERDA-KANKROLI	1	371	0	6.0	0.0	6.0	
12	400 kV	ZERDA -BHINMAL	1	536	0	7.6	0.0	7.6	
13	400 kV	VINDHYACHAL -RIHAND	1	961	0	21.5	0.0	21.5	
14	400 kV	RAPP-SHUALPUR	2	26	382	0.0	4.3	-4.3	
15	220 kV	BHANPURA-RANPUR	1	39	37	0.1	0.3	-0.1	
16	220 kV	BHANPURA-MORAK	1	0	30	0.0	0.7	0.7	
17	220 kV	MEHGAON-AURAIYA	1	125	0	1.1	0.0	1.1	
18	220 kV	MALANPUR-AURAIYA	1	87	0	1.9	0.0	1.9	
19	132 kV	GWALIOR-SAWAIMADHOPUR	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	88.5	241.7	-153.2
Import/Export of WR (With SR)									
1	HVDC	BHADRAWATI B/B	-	994	0	21.1	0.0	21.1	
2	HVDC	RAIGARH-PUGALUR	2	2148	0	31.9	0.0	31.9	
3	765 kV	SOLAPUR-RAICHUR	2	1488	879	6.5	0.0	6.5	
4	765 kV	WARDHA-NIZAMABAD	2	0	1814	0.0	22.9	-22.9	
5	400 kV	KOLHAPUR-KUDGI	2	1500	0	24.4	0.0	24.4	
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	80	1.4	0.0	1.4	
						WR-SR	85.3	22.9	62.4

INTERNATIONAL EXCHANGES			Import(+ve)/Export(-ve) Energy Exchange (MU)			
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)	359	0	321	7.7
	ER	400kV TALA-BINAGURI 1,2,3 (& 400kV MALBASE - BINAGURI) i.e. BINAGURI RECEIPT (from TALA HEP (6*170MW))	439	432	432	10.4
	ER	220kV CHUKHA-BIRPARA 1&2 (& 220kV MALBASE - BIRPARA) i.e. BIRPARA RECEIPT (from CHUKHA HEP 4*84MW)	173	0	140	3.4
	NER	132kV GELEPHU-SALAKATI	17	8	11	0.3
	NER	132kV MOTANGA-RANGIA	49	24	35	0.8
NEPAL	NR	132kV MAHENDRANAGAR-TANAKPUR(NHPC)	-64	0	-8	-0.2
	ER	NEPAL IMPORT (FROM BIHAR)	222	0	51	1.2
BANGLADESH	ER	400kV DHALKEBAR-MUZAFFARPUR 1&2	215	-9	126	3.0
	ER	BHERAMARA B/B HVDC (BANGLADESH)	-731	-717	-721	-17.3
	NER	132kV COMILLA-SURAJMANI NAGAR 1&2	-160	0	-138	-3.3