



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: 11th 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 10.10.2021.

महोदय/Dear Sir,

आई०ई०जी०सी०-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 10-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 10th 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: 11-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)	50313	50709	36868	22392	3111	163393
Peak Shortage (MW)	1950	323	0	441	0	2714
Energy Met (MU)	1202	1162	859	491	58	3772
Hydro Gen (MU)	213	54	143	117	24	551
Wind Gen (MU)	27	20	98	-	-	145
Solar Gen (MU)*	66.30	38.00	93.70	4.95	0.27	203
Energy Shortage (MU)	27.80	1.84	0.29	5.20	0.00	35.13
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	55127	51480	40216	23209	3151	167074
Time Of Maximum Demand Met (From NLDC SCADA)	11:48	18:54	12:59	20:25	18:16	18:53

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	0.032	0.00	0.57	2.43	3.00	69.77	27.23

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	8856	0	179.6	98.2	-2.9	57	9.60
	Haryana	7661	0	160.0	113.2	1.2	279	1.53
	Rajasthan	11478	0	247.9	85.7	0.2	306	2.05
	Delhi	4536	0	94.2	72.0	-1.6	203	0.00
	UP	19095	430	400.6	174.8	-1.5	373	11.00
	Uttarakhand	1900	0	39.6	18.8	1.4	131	0.17
	HP	1385	0	30.2	9.4	-0.8	120	0.00
	J&K(UT) & Ladakh(UT)	2535	200	45.6	33.6	-1.0	307	3.45
	Chandigarh	226	0	4.4	4.5	-0.1	29	0.00
	Chhattisgarh	4204	0	100.0	57.4	0.4	234	0.05
WR	Gujarat	15162	0	345.4	210.5	0.3	573	1.59
	MP	10783	0	235.8	148.3	-0.9	486	0.00
	Maharashtra	19273	0	422.7	136.7	-1.2	661	0.00
	Goa	588	0	13.1	11.6	0.8	25	0.00
	DD	324	0	7.3	6.7	0.6	63	0.20
	DNH	831	0	19.5	19.2	0.3	48	0.00
	AMNSIL	824	0	18.2	6.7	-0.2	283	0.00
SR	Andhra Pradesh	8291	0	176.7	76.3	1.7	916	0.29
	Telangana	9022	0	185.2	22.4	-1.3	427	0.00
	Karnataka	7587	0	152.2	27.9	-0.9	581	0.00
	Kerala	3285	0	66.6	38.2	0.5	198	0.00
	Tamil Nadu	12384	0	270.8	99.0	-3.0	433	0.00
	Puducherry	328	0	7.1	7.6	-0.5	86	0.00
ER	Bihar	5823	0	114.2	107.0	1.4	701	1.54
	DVC	3154	0	65.1	-21.1	0.7	341	0.52
	Jharkhand	1439	240	29.1	23.4	-1.7	179	3.15
	Odisha	5489	0	110.5	25.3	0.8	443	0.00
	West Bengal	8463	0	170.8	32.4	-0.3	280	0.00
NER	Sikkim	85	0	1.4	1.3	0.1	44	0.00
	Arunachal Pradesh	145	0	2.3	2.2	-0.1	40	0.00
	Assam	2032	0	38.2	30.4	-0.1	141	0.00
	Manipur	192	0	2.7	2.8	-0.1	12	0.00
	Meghalaya	304	0	5.6	2.3	-0.2	66	0.00
	Mizoram	91	0	1.6	0.8	0.0	6	0.00
	Nagaland	138	0	2.5	2.0	0.1	26	0.00
	Tripura	306	0	5.5	5.3	0.1	56	0.00

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

	Bhutan	Nepal	Bangladesh
Actual (MU)	29.9	1.9	-20.3
Day Peak (MW)	1482.0	-12.0	-870.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	253.1	-72.4	-85.3	-96.9	1.5	0.0
Actual(MU)	247.9	-66.6	-93.4	-91.3	-0.8	-4.2
O/D/U/D(MU)	-5.3	5.7	-8.0	5.7	-2.3	-4.2

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL	% Share
Central Sector	3537	17915	7812	2610	409	32283	42
State Sector	10160	19752	9240	5100	11	44263	58
Total	13697	37667	17052	7710	420	76546	100

G. Sourcewise generation (MU)

	NR	WR	SR	ER	NER	All India	% Share
Coal	566	1055	485	477	9	2592	67
Lignite	23	8	36	0	0	67	2
Hydro	213	54	143	117	24	551	14
Nuclear	31	33	69	0	0	132	3
Gas, Naptha & Diesel	42	37	10	0	31	119	3
RES (Wind, Solar, Biomass & Others)	106	59	222	5	0	392	10
Total	981	1247	964	598	64	3854	100
Share of RES in total generation (%)	10.83	4.73	23.01	0.83	0.42	10.18	
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	35.69	11.69	44.97	20.33	37.91	27.90	

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.037
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: 11-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	1501	0.0	38.2	-38.2	
2	HVDC	PUSAULI B/B	-	0	248	0.0	6.0	-6.0	
3	765 kV	GAYA-VARANASI	2	408	201	3.3	0.0	3.3	
4	765 kV	SASARAM-FATEHPUR	1	88	208	0.0	0.7	-0.7	
5	765 kV	GAYA-BALIA	1	0	436	0.0	8.0	-8.0	
6	400 kV	PUSAULI-VARANASI	1	0	180	0.0	3.4	-3.4	
7	400 kV	PUSAULI-ALLAHABAD	1	0	143	0.0	2.4	-2.4	
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	77	463	0.0	4.9	-4.9	
9	400 kV	PATNA-BALIA	4	0	509	0.0	6.3	-6.3	
10	400 kV	BIHARSHARIFF-BALIA	2	243	62	2.0	0.0	2.0	
11	400 kV	MOTHARI-GORAKHPUR	2	0	288	0.0	3.8	-3.8	
12	400 kV	BIHARSHARIFF-VARANASI	2	197	89	1.8	0.0	1.8	
13	220 kV	PUSAULI-SAHUPURI	1	16	63	0.0	0.8	-0.8	
14	132 kV	SONE NAGAR-RIHAND	1	0	0	0.0	0.0	0.0	
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	7.5	74.4	-66.9
Import/Export of ER (With WR)									
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	77	1546	0.0	13.9	-13.9	
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	1542	0	24.9	0.0	24.9	
3	765 kV	JHARSUGUDA-DURG	2	248	143	1.9	0.0	1.9	
4	400 kV	JHARSUGUDA-RAIGARH	4	0	466	0.0	6.4	-6.4	
5	400 kV	RANCHI-SIPAT	2	353	0	5.3	0.0	5.3	
6	220 kV	BUDHIPADAR-RAIGARH	1	0	165	0.0	2.7	-2.7	
7	220 kV	BUDHIPADAR-KORBA	2	71	19	0.6	0.0	0.6	
						ER-WR	32.7	23.0	9.7
Import/Export of ER (With SR)									
1	HVDC	JEYPORE-GAZUWAKA B/B	2	460	447	0.0	7.6	-7.6	
2	HVDC	TALCHER-KOLAR BIPOLE	2	0	1630	0.0	27.6	-27.6	
3	765 kV	ANGUL-SRIKAKULAM	2	325	1591	0.0	20.9	-20.9	
4	400 kV	TALCHER-I/C	2	523	268	5.7	0.0	5.7	
5	220 kV	BALIMEL A-UPPER-SILERRU	1	2	0	0.0	0.0	0.0	
						ER-SR	0.0	56.0	-56.0
Import/Export of ER (With NER)									
1	400 kV	BINAGURI-BONGAIGAON	2	0	494	0.0	9.3	-9.3	
2	400 kV	ALIPURDUAR-BONGAIGAON	2	10	407	0.0	4.8	-4.8	
3	220 kV	ALIPURDUAR-SALAKATI	2	0	130	0.0	2.2	-2.2	
						ER-NER	0.0	16.3	-16.3
Import/Export of NER (With NR)									
1	HVDC	BISWANATH CHARIAL-AGRA	2	0	704	0.0	17.3	-17.3	
						NER-NR	0.0	17.3	-17.3
Import/Export of WR (With NR)									
1	HVDC	CHAMPA-KURUKSHETRA	2	0	2514	0.0	50.9	-50.9	
2	HVDC	VINDHYACHAL B/B	-	448	0	9.8	0.0	9.8	
3	HVDC	MUNDRA-MOHINDERGARH	2	0	588	0.0	7.5	-7.5	
4	765 kV	GWALIOR-AGRA	2	0	1981	0.0	30.6	-30.6	
5	765 kV	GWALIOR-PHAGI	2	0	1959	0.0	38.9	-38.9	
6	765 kV	JABALPUR-ORAI	2	0	1004	0.0	36.2	-36.2	
7	765 kV	GWALIOR-ORAI	1	665	0	13.5	0.0	13.5	
8	765 kV	SAINA-ORAI	1	0	1094	0.0	23.9	-23.9	
9	765 kV	BANASKANTHA-CHITORGARH	2	1487	0	26.5	0.0	26.5	
10	765 kV	VINDHYACHAL-VARANASI	2	0	3321	0.0	68.5	-68.5	
11	400 kV	ZERDA-KANKROLI	1	318	0	6.0	0.0	6.0	
12	400 kV	ZERDA-BHINMAL	1	499	0	9.6	0.0	9.6	
13	400 kV	VINDHYACHAL-RIHAND	1	969	0	22.5	0.0	22.5	
14	400 kV	RAPP-SHILJALPUR	2	0	431	0.0	5.9	-5.9	
15	220 kV	BHANPURA-RANPUR	1	18	69	0.0	0.6	-0.6	
16	220 kV	BHANPURA-MORAK	1	0	30	0.5	0.1	0.4	
17	220 kV	MEHGAON-AURAIYA	1	111	39	0.9	0.1	0.8	
18	220 kV	MALANPUR-AURAIYA	1	72	63	1.6	0.0	1.6	
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	90.9	262.3	-171.4
Import/Export of WR (With SR)									
1	HVDC	BHADRAWATI B/B	-	500	0	11.9	0.0	11.9	
2	HVDC	RAIGARH-PUGALUR	2	2149	900	41.6	0.0	41.6	
3	765 kV	SOLAPUR-RAICHUR	2	3442	207	29.7	0.0	29.7	
4	765 kV	WARDHA-NIZAMABAD	2	1382	930	0.0	0.5	-0.5	
5	400 kV	KOLHAPUR-KUDGI	2	1923	0	30.3	0.0	30.3	
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	75	1.3	0.0	1.3	
						WR-SR	114.8	0.5	114.3

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)	563	415	415	10.0
	ER	400kV TALA-BINAGURI 1,2,4 (& 400kV MALBASE - BINAGURI) i.e. BINAGURI RECEIPT (from TALA HEP (6*170MW))	634	581	601	14.4
	ER	220kV CHUKHA-BIRPARA 1&2 (& 220kV MALBASE - BIRPARA) i.e. BIRPARA RECEIPT (from CHUKHA HEP 4*84MW)	231	0	187	4.5
	NER	132kV GELEPHU-SALAKATI	0	0	0	0.0
	NER	132kV MOTANGA-RANGIA	54	27	42	1.0
NEPAL	NR	132kV MAHENDRANAGAR-TANAKPUR(NHPC)	-62	0	-6	-0.1
	ER	NEPAL IMPORT (FROM BIHAR)	148	0	112	2.7
	ER	400kV DHALKEBAR-MUZAFFARPUR 1&2	-98	36	-27	-0.7
BANGLADESH	ER	BHERAMARA B/B HVDC (BANGLADESH)	-714	-712	-713	-17.1
	NER	132kV COMILLA-SURAJMANI NAGAR 1&2	-156	0	-132	-3.2