National Load Despatch Centre
राष्ट्रीय भार प्रेषण केंद्र
POWER SYSTEM OPERATION CORPORATION LIMITED
पॉवर सिस्टम ऑपरेशन कारपोरेशन लिमिटेड
(Government of India Enterprise/ भारत सरकार का उद्यम)
B-9, QUTUB INSTITUTIONAL AREA, KATWARIA SARAI, NEW DELHI -110016
बी-9, क़ुतुब इन्स्टीट्यूशनल एरिया, कटवारिया सराये, न्यू दिल्ली-110016

Ref: POSOCO/NLDC/SO/Daily PSP Report

दिनांक: 16th 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., डोंगतिएह, 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 15.10.2021.

महोदय/Dear Sir,

आई०ई०जी०सी०-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 15-अक्टूबर-2021 की अखिल भारतीय प्रणाली की दैनिक ग्रिड निष्पादन रिपोर्ट रा०भा०प्रे०के० की वेबसाइट पर उप्लब्ध 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 15th 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: 16-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)	48990	47395	36562	20763	2806	156516
Peak Shortage (MW)	200	486	0	300	0	986
Energy Met (MU)	1123	1146	893	466	55	3683
Hydro Gen (MU)	197	33	143	90	22	484
Wind Gen (MU)	2	30	44	-	-	75
Solar Gen (MU)*	66.92	42.92	93.75	4.45	0.31	208
Energy Shortage (MU)	11.58	5.36	0.00	6.44	0.00	23.38
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	51066	49261	42923	21343	2899	161491
Time Of Maximum Demand Met (From NLDC SCADA)	18:49	00:02	12:14	21:23	19:10	11:54

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	0.037	0.00	0.20	6.62	6.82	71.22	21.97

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	8674	0	177.2	97.2	-1.5	205	0.00
	Haryana	6852	0	140.9	92.2	0.9	329	7.40
	Rajasthan	11464	0	238.5	83.5	-0.5	725	0.00
	Delhi	3517	0	78.3	65.9	-0.7	105	0.00
	UP	18866	0	370.9	170.1	-2.3	510	0.73
	Uttarakhand	1702	0	37.1	19.3	0.2	184	0.00
	HP	1437	0	29.1	11.2	-1.1	115	0.00
	J&K(UT) & Ladakh(UT)	2260	100	47.2	37.0	-0.7	158	3.45
	Chandigarh	192	0	3.8	4.0	-0.2	12	0.00
WR	Chhattisgarh	4142	0	98.6	53.5	0.5	262	0.00
	Gujarat	14993	0	343.4	205.2	1.5	1342	5.36
	MP	10397	0	226.5	143.5	-3.5	390	0.00
	Maharashtra	19049	0	424.0	132.7	-4.1	497	0.00
	Goa	556	0	13.3	12.0	0.6	30	0.00
	DD	297	0	5.3	5.1	0.2	33	0.00
	DNH	838	0	17.2	17.3	-0.1	48	0.00
	AMNSIL	816	0	18.1	9.6	-0.2	256	0.00
SR	Andhra Pradesh	8911	0	185.6	87.0	-0.1	525	0.00
	Telangana	9747	0	192.5	38.1	-2.6	618	0.00
	Karnataka	7817	0	149.9	9.1	-2.2	510	0.00
	Kerala	3510	0	71.4	39.9	-0.3	328	0.00
	Tamil Nadu	13023	0	286.0	128.4	-1.2	823	0.00
	Puducherry	387	0	7.8	8.1	-0.3	34	0.00
ER	Bihar	5758	0	113.9	104.7	2.6	418	5.65
	DVC	2785	0	64.6	-33.2	1.1	319	0.25
	Jharkhand	1383	0	29.4	22.5	-1.5	126	0.55
	Odisha	5214	0	110.8	29.5	-0.6	349	0.00
	West Bengal	7310	0	146.5	11.9	-0.1	383	0.00
	Sikkim	66	0	1.0	1.4	-0.4	14	0.00
NER	Arunachal Pradesh	123	0	2.2	2.2	-0.2	78	0.00
	Assam	1875	0	35.0	27.5	-0.3	196	0.00
	Manipur	200	0	2.6	2.6	0.0	46	0.00
	Meghalaya	292	0	5.2	3.1	-0.1	22	0.00
	Mizoram	97	0	1.6	1.2	-0.2	4	0.00
	Nagaland	138	0	2.3	2.0	-0.0	29	0.00
	Tripura	287	0	5.8	5.0	-0.3	31	0.00

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

	Bhutan	Nepal	Bangladesh
Actual (MU)	22.7	4.9	-20.1
Day Peak (MW)	1173.0	-63.3	-853.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	228.3	-81.2	-25.2	-121.9	0.1	0.0
Actual(MU)	214.8	-76.7	-32.5	-110.3	-2.7	-7.4
O/D/U/D(MU)	-13.5	4.5	-7.3	11.6	-2.8	-7.4

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL	% Share
Central Sector	5208	16003	8062	1610	430	31312	46
State Sector	7435	18149	7160	4095	11	36850	54
Total	12643	34152	15222	5705	441	68163	100

G. Sourcewise generation (MU)

	NR	WR	SR	ER	NER	All India	% Share
Coal	571	1064	507	491	10	2643	70
Lignite	23	9	35	0	0	67	2
Hydro	197	33	143	90	22	484	13
Nuclear	27	33	69	0	0	129	3
Gas, Naptha & Diesel	27	29	18	0	31	105	3
RES (Wind, Solar, Biomass & Others)	82	73	167	4	0	326	9
Total	925	1240	939	586	63	3754	100

Share of RES in total generation (%)	8.81	5.88	17.76	0.76	0.49	8.69
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	32.93	11.20	40.33	16.13	34.80	25.01

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.037
Based on State Max Demands	1.083

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-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	36.2	-36.2
2	HVDC	PUSAULI B/B	-	0	248	0.0	6.0	-6.0
3	765 kV	GAYA-VARANASI	2	246	209	0.9	0.0	0.9
4	765 kV	SASARAM-FATEHPUR	1	71	156	0.0	0.9	-0.9
5	765 kV	GAYA-BALIA	1	0	467	0.0	8.3	-8.3
6	400 kV	PUSAULI-VARANASI	1	0	163	0.0	3.4	-3.4
7	400 kV	PUSAULI -ALLAHABAD	1	0	129	0.0	2.4	-2.4
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	0	562	0.0	6.2	-6.2
9	400 kV	PATNA-BALIA	4	0	456	0.0	5.9	-5.9
10	400 kV	BIHARSHARIFF-BALIA	2	139	143	0.6	0.0	0.6
11	400 kV	MOTIHARI-GORAKHPUR	2	0	318	0.0	3.8	-3.8
12	400 kV	BIHARSHARIFF-VARANASI	2	110	110	0.1	0.0	0.1
13	220 kV	PUSAULI-SAHUPURI	1	13	71	0.0	0.9	-0.9
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-CHANDAULI	1	0	0	0.0	0.0	0.0
					ER-NR	2.1	74.0	-71.9
Import/Export of ER (With WR)								
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	192	720	0.0	7.9	-7.9
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	901	305	9.2	0.0	9.2
3	765 kV	JHARSUGUDA-DURG	2	188	113	1.3	0.0	1.3
4	400 kV	JHARSUGUDA-RAIGARH	4	0	465	0.0	6.0	-6.0
5	400 kV	RANCHI-SIPAT	2	230	97	2.0	0.0	2.0
6	220 kV	BUDHIPADAR-RAIGARH	1	0	190	0.0	3.1	-3.1
7	220 kV	BUDHIPADAR-KORBA	2	77	119	0.0	0.5	-0.5
					ER-WR	12.4	17.4	-5.0
Import/Export of ER (With SR)								
1	HVDC	JEYPORE-GAZUWAKA B/B	2	288	361	3.1	0.0	3.1
2	HVDC	TALCHER-KOLAR BIPOLE	2	0	1287	0.0	27.2	-27.2
3	765 kV	ANGUL-SRIKAKULAM	2	0	2673	0.0	41.8	-41.8
4	400 kV	TALCHER-I/C	2	321	0	5.6	0.0	5.6
5	220 kV	BALIMELA-UPPER-SILERRU	1	2	0	0.0	0.0	0.0
					ER-SR	3.1	69.0	-65.9
Import/Export of ER (With NER)								
1	400 kV	BINAGURI-BONGAIGAON	2	0	296	0.0	5.4	-5.4
2	400 kV	ALIPURDUAR-BONGAIGAON	2	165	68	1.2	0.0	1.2
3	220 kV	ALIPURDUAR-SALAKATI	2	0	68	0.0	1.0	-1.0
					ER-NER	1.2	6.4	-5.2
Import/Export of NER (With NR)								
1	HVDC	BISWANATH CHARIALI-AGRA	2	0	403	0.0	9.2	-9.2
					NER-NR	0.0	9.2	-9.2

Import/Export of WR (With NR)								
1	HVDC	CHAMPA-KURUKSHETRA	2	0	2008	0.0	44.1	-44.1
2	HVDC	VINDHYACHAL B/B	-	364	0	9.7	0.0	9.7
3	HVDC	MUNDRA-MOHINDERGARH	2	0	471	0.0	10.5	-10.5
4	765 kV	GWALIOR-AGRA	2	0	1695	0.0	29.4	-29.4
5	765 kV	GWALIOR-PHAGI	2	0	1863	0.0	37.9	-37.9
6	765 kV	JABALPUR-ORAI	2	0	872	0.0	31.2	-31.2
7	765 kV	GWALIOR-ORAI	1	836	0	15.3	0.0	15.3
8	765 kV	SATNA-ORAI	1	0	1001	0.0	20.7	-20.7
9	765 kV	BANASKANTHA-CHITORGARH	2	1729	0	28.9	0.0	28.9
10	765 kV	VINDHYACHAL-VARANASI	2	0	3014	0.0	58.2	-58.2
11	400 kV	ZERDA-KANKROLI	1	352	0	5.8	0.0	5.8
12	400 kV	ZERDA -BHINMAL	1	455	0	6.5	0.0	6.5
13	400 kV	VINDHYACHAL -RIHAND	1	949	0	21.4	0.0	21.4
14	400 kV	RAPP-SHUJALPUR	2	0	354	0.0	4.6	-4.6
15	220 kV	BHANPURA-RANPUR	1	20	49	0.1	0.3	-0.3
16	220 kV	BHANPURA-MORAK	1	0	30	0.5	0.0	0.5
17	220 kV	MEHGAON-AURAIYA	1	139	0	1.4	0.0	1.4
18	220 kV	MALANPUR-AURAIYA	1	101	0	2.2	0.0	2.2
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	91.9	237.0	-145.2
Import/Export of WR (With SR)								
1	HVDC	BHADRAWATI B/B	-	990	0	20.7	0.0	20.7
2	HVDC	RAIGARH-PUGALUR	2	2149	0	36.7	0.0	36.7
3	765 kV	SOLAPUR-RAICHUR	2	1326	1233	5.6	0.0	5.6
4	765 kV	WARDHA-NIZAMABAD	2	0	2177	0.0	24.2	-24.2
5	400 kV	KOLHAPUR-KUDGI	2	1330	0	23.3	0.0	23.3
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	76	1.5	0.0	1.5
					WR-SR	87.7	24.2	63.5

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&3 i.e. ALIPURDUAR RECEIPT (from MANGDECHU HEP 4*180MW)	378	0	321	7.7
	ER	400kV TALA-BINAGURI 1,2,4 (& 400kV MALBASE - BINAGURI) i.e. BINAGURI RECEIPT (from TALA HEP (6*170MW)	546	0	448	10.7
	ER	220kV CHUKHA-BIRPARA 1&2 (& 220kV MALBASE - BIRPARA) i.e. BIRPARA RECEIPT (from CHUKHA HEP 4*84MW)	166	0	134	3.2
	NER	132kV GELEPHU-SALAKATI	45	9	9	0.2
	NER	132kV MOTANGA-RANGIA	39	23	36	0.9
NEPAL	NR	132kV MAHENDRANAGAR-TANAKPUR(NHPC)	-68	0	-3	-0.1
	ER	NEPAL IMPORT (FROM BIHAR)	175	29	91	2.2
	ER	400kV DHALKEBAR-MUZAFFARPUR 1&2	-170	293	117	2.8
BANGLADESH	ER	BHERAMARA B/B HVDC (BANGLADESH)	-723	-718	-721	-17.3
	NER	132kV COMILLA-SURAJMANI NAGAR 1&2	-130	0	-116	-2.8