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, कुतुब इन्स्टीट्यूशनल एरिया, कटवारिया सराये, न्यू दिल्ली-110016

Ref: POSOCO/NLDC/SO/Daily PSP Report

दिनांक:18th 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., 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 17.09.2021.

महोदय/Dear Sir,

आई०ई०जी०सी०-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 17-सितंबर-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 17th 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:** **18-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)	52106	44034	44608	21420	2748	164916
Peak Shortage (MW)	200	0	0	181	0	381
Energy Met (MU)	1089	1066	1091	458	53	3757
Hydro Gen (MU)	306	41	168	119	28	661
Wind Gen (MU)	11	80	87	-	-	178
Solar Gen (MU)*	55.38	29.20	104.23	4.42	0.20	193
Energy Shortage (MU)	3.45	0.00	0.00	1.44	0.00	4.89
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	52653	46872	53380	21594	2858	167629
Time Of Maximum Demand Met (From NLDC SCADA)	19:44	19:04	10:35	20:26	19:25	19:25

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	0.42	5.21	5.62	78.72	15.66

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	10134	0	232.8	165.5	-1.0	83	0.00
	Haryana	7291	0	151.0	114.3	0.5	150	0.00
	Rajasthan	9593	0	215.4	82.0	0.3	553	0.00
	Delhi	4449	0	92.3	80.8	-0.9	111	0.00
	UP	16086	0	274.7	85.5	-0.7	638	0.00
	Uttarakhand	1835	0	39.9	10.7	0.0	165	0.00
	HP	1415	0	30.8	-4.0	-0.5	24	0.00
	J&K(UT) & Ladakh(UT)	2531	200	47.3	25.4	0.6	377	3.45
	Chandigarh	258	0	5.4	5.5	-0.2	35	0.00
WR	Chhattisgarh	3172	0	74.0	29.1	-0.5	237	0.00
	Gujarat	13806	0	306.8	173.0	0.3	493	0.00
	MP	8638	0	182.3	99.9	-1.7	529	0.00
	Maharashtra	20591	0	448.8	147.6	-3.7	716	0.00
	Goa	563	0	11.8	11.0	0.1	41	0.00
	DD	328	0	7.5	7.3	0.2	36	0.00
	DNH	822	0	19.0	19.2	-0.2	44	0.00
	AMNSIL	704	0	16.0	5.2	-0.5	143	0.00
SR	Andhra Pradesh	10388	0	212.3	87.8	0.4	504	0.00
	Telangana	12238	0	242.9	75.0	-0.4	544	0.00
	Karnataka	11444	0	211.3	50.1	-0.4	931	0.00
	Kerala	3610	0	73.8	46.9	0.1	235	0.00
	Tamil Nadu	15419	0	342.5	187.7	1.6	829	0.00
	Puducherry	397	0	8.6	8.8	-0.2	52	0.00
ER	Bihar	5480	0	107.5	102.8	-0.9	307	0.40
	DVC	2924	0	63.1	-44.3	-0.2	413	0.00
	Jharkhand	1314	0	28.5	24.1	-1.1	235	1.04
	Odisha	5345	0	109.2	39.6	-0.7	325	0.00
	West Bengal	7370	0	147.7	28.4	-0.7	568	0.00
	Sikkim	93	0	1.6	0.1	1.5	84	0.00
NER	Arunachal Pradesh	139	0	2.3	2.5	-0.3	46	0.00
	Assam	1857	0	33.9	27.4	0.8	138	0.00
	Manipur	182	0	2.6	2.7	-0.1	15	0.00
	Meghalaya	294	0	5.2	2.8	-0.2	23	0.00
	Mizoram	99	0	1.5	1.2	-0.1	27	0.00
	Nagaland	129	0	2.6	2.2	-0.1	7	0.00
	Tripura	262	0	4.9	5.1	-0.7	54	0.00

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

	Bhutan	Nepal	Bangladesh
Actual (MU)	24.0	1.1	-20.0
Day Peak (MW)	1222.0	93.5	-850.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	182.1	-105.4	73.4	-144.0	-6.2	0.0
Actual(MU)	168.4	-107.6	84.1	-140.4	-9.9	-5.4
O/D/U/D(MU)	-13.8	-2.2	10.7	3.5	-3.7	-5.4

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL	% Share
Central Sector	6138	19470	7482	1715	430	35234	44
State Sector	10605	19850	8998	4565	11	44029	56
Total	16743	39319	16480	6280	441	79263	100

G. Sourcewise generation (MU)

	NR	WR	SR	ER	NER	All India	% Share
Coal	468	984	510	507	12	2482	65
Lignite	27	13	48	0	0	88	2
Hydro	306	41	168	119	28	661	17
Nuclear	31	28	64	0	0	123	3
Gas, Naptha & Diesel	22	16	8	0	28	74	2
RES (Wind, Solar, Biomass & Others)	84	110	222	4	0	421	11
Total	938	1192	1020	630	67	3848	100

Share of RES in total generation (%)	8.92	9.24	21.78	0.70	0.30	10.93
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	44.88	15.01	44.46	19.51	41.47	31.30

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.058
Based on State Max Demands	1.081

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: 18-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	1302	0.0	30.0	-30.0
2	HVDC	PUSAULI B/B	-	0	247	0.0	6.0	-6.0
3	765 kV	GAYA-VARANASI	2	295	253	0.0	0.1	-0.1
4	765 kV	SASARAM-FATEHPUR	1	20	217	0.0	1.7	-1.7
5	765 kV	GAYA-BALIA	1	0	382	0.0	4.5	-4.5
6	400 kV	PUSAULI-VARANASI	1	0	190	0.0	3.8	-3.8
7	400 kV	PUSAULI -ALLAHABAD	1	0	128	0.0	2.0	-2.0
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	0	490	0.0	7.0	-7.0
9	400 kV	PATNA-BALIA	4	0	710	0.0	10.0	-10.0
10	400 kV	BIHARSHARIFF-BALIA	2	89	173	0.0	0.2	-0.2
11	400 kV	MOTIHARI-GORAKHPUR	2	0	319	0.0	4.8	-4.8
12	400 kV	BIHARSHARIFF-VARANASI	2	131	114	1.0	0.0	1.0
13	220 kV	PUSAULI-SAHUPURI	1	45	53	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	0.0	0.0	0.0
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	1.1	70.0	-68.9
Import/Export of ER (With WR)								
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	591	276	2.6	0.0	2.6
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	653	776	2.3	0.0	2.3
3	765 kV	JHARSUGUDA-DURG	2	23	390	0.0	4.2	-4.2
4	400 kV	JHARSUGUDA-RAIGARH	4	46	408	0.0	4.1	-4.1
5	400 kV	RANCHI-SIPAT	2	119	238	0.0	0.5	-0.5
6	220 kV	BUDHIPADAR-RAIGARH	1	0	134	0.0	1.7	-1.7
7	220 kV	BUDHIPADAR-KORBA	2	145	0	2.0	0.0	2.0
					ER-WR	6.8	10.5	-3.7
Import/Export of ER (With SR)								
1	HVDC	JEYPORE-GAZUWAKA B/B	2	264	447	0.0	10.0	-10.0
2	HVDC	TALCHER-KOLAR BIPOLE	2	0	1980	0.0	45.7	-45.7
3	765 kV	ANGUL-SRIKAKULAM	2	0	3080	0.0	54.3	-54.3
4	400 kV	TALCHER-I/C	2	193	236	0.0	2.1	-2.1
5	220 kV	BALIMELA-UPPER-SILERRU	1	1	0	0.0	0.0	0.0
					ER-SR	0.0	109.9	-109.9
Import/Export of ER (With NER)								
1	400 kV	BINAGURI-BONGAIGAON	2	90	304	0.0	3.4	-3.4
2	400 kV	ALIPURDUAR-BONGAIGAON	2	242	284	0.0	1.3	-1.3
3	220 kV	ALIPURDUAR-SALAKATI	2	1	94	0.0	1.2	-1.2
					ER-NER	0.0	5.9	-5.9
Import/Export of NER (With NR)								
1	HVDC	BISWANATH CHARIALI-AGRA	2	0	703	0.0	16.7	-16.7
					NER-NR	0.0	16.7	-16.7
Import/Export of WR (With NR)								
1	HVDC	CHAMPA-KURUKSHETRA	2	0	1805	0.0	25.5	-25.5
2	HVDC	VINDHYACHAL B/B	-	446	2	5.1	0.0	5.1
3	HVDC	MUNDRA-MOHINDERGARH	2	0	443	0.0	10.9	-10.9
4	765 kV	GWALIOR-AGRA	2	0	1508	0.0	21.2	-21.2
5	765 kV	GWALIOR-PHAGI	2	0	2025	0.0	36.8	-36.8
6	765 kV	JABALPUR-ORAI	2	0	632	0.0	18.4	-18.4
7	765 kV	GWALIOR-ORAI	1	833	0	16.3	0.0	16.3
8	765 kV	SATNA-ORAI	1	0	836	0.0	17.9	-17.9
9	765 kV	BANASKANTHA-CHITORGARH	2	1404	0	24.4	0.0	24.4
10	765 kV	VINDHYACHAL-VARANASI	2	0	2180	0.0	36.3	-36.3
11	400 kV	ZERDA-KANKROLI	1	303	0	5.5	0.0	5.5
12	400 kV	ZERDA -BHINMAL	1	489	311	7.3	0.0	7.3
13	400 kV	VINDHYACHAL -RIHAND	1	966	0	21.7	0.0	21.7
14	400 kV	RAPP-SHUJALPUR	2	63	426	0.1	4.6	-4.5
15	220 kV	BHANPURA-RANPUR	1	4	61	0.0	0.5	-0.5
16	220 kV	BHANPURA-MORAK	1	0	30	0.4	0.1	0.2
17	220 kV	MEHGAON-AURAIYA	1	98	0	0.9	0.0	0.9
18	220 kV	MALANPUR-AURAIYA	1	79	0	1.4	0.0	1.4
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	82.9	172.2	-89.4
Import/Export of WR (With SR)								
1	HVDC	BHADRAWATI B/B	-	496	0	12.1	0.0	12.1
2	HVDC	RAIGARH-PUGALUR	2	1919	1003	0.1	5.8	-5.7
3	765 kV	SOLAPUR-RAICHUR	2	543	2081	0.0	9.9	-9.9
4	765 kV	WARDHA-NIZAMABAD	2	0	2533	0.0	37.2	-37.2
5	400 kV	KOLHAPUR-KUDGI	2	1174	0	18.2	0.0	18.2
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	72	1.4	0.0	1.4
					WR-SR	31.8	52.8	-21.0

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)	820	0	743	17.8
	ER	400kV TALA-BINAGURI 1,2,4 (& 400kV MALBASE - BINAGURI) i.e. BINAGURI RECEIPT (from TALA HEP (6*170MW)	26	0	8	0.2
	ER	220kV CHUKHA-BIRPARA 1&2 (& 220kV MALBASE - BIRPARA) i.e. BIRPARA RECEIPT (from CHUKHA HEP 4*84MW)	292	0	180	4.3
	NER	132kV GELEPHU-SALAKATI	31	19	26	0.6
	NER	132kV MOTANGA-RANGIA	54	31	41	1.0
NEPAL	NR	132kV MAHENDRANAGAR-TANAKPUR(NHPC)	0	0	0	0.0
	ER	NEPAL IMPORT (FROM BIHAR)	-10	0	-2	0.0
	ER	400kV DHALKEBAR-MUZAFFARPUR 1&2	103	0	48	1.2
BANGLADESH	ER	BHERAMARA B/B HVDC (BANGLADESH)	-736	-727	-735	-17.6
	NER	132kV COMILLA-SURAJMANI NAGAR 1&2	-114	0	-99	-2.4