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:19th 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 18.09.2021.

महोदय/Dear Sir,

आई०ई०जी०सी०-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 18-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 18th 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:** **19-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)	55042	48632	42965	21524	2646	170809
Peak Shortage (MW)	1176	325	950	899	0	3350
Energy Met (MU)	1172	1098	1070	467	51	3859
Hydro Gen (MU)	319	51	172	120	33	694
Wind Gen (MU)	6	64	52	-	-	122
Solar Gen (MU)*	58.05	26.91	98.52	4.55	0.15	188
Energy Shortage (MU)	8.13	0.30	1.24	4.60	0.00	14.27
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	55542	49036	51724	22177	2817	171393
Time Of Maximum Demand Met (From NLDC SCADA)	20:08	19:00	09:39	20:20	18:21	19:31

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	0.042	0.83	1.02	4.06	5.91	76.96	17.13

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	10367	0	235.8	163.5	-0.3	163	0.00
	Haryana	7715	0	162.2	124.3	1.9	308	2.97
	Rajasthan	9892	0	220.5	77.5	0.3	388	0.16
	Delhi	4301	0	91.2	81.2	-1.6	337	0.00
	UP	18809	0	334.3	112.2	0.0	478	1.40
	Uttarakhand	1985	0	42.8	12.9	0.4	104	0.15
	HP	1470	0	32.3	-2.4	0.3	76	0.00
	J&K(UT) & Ladakh(UT)	2530	250	47.0	23.7	0.8	330	3.45
	Chandigarh	270	0	5.5	5.9	-0.4	12	0.00
WR	Chhattisgarh	3764	0	81.8	33.5	0.7	341	0.00
	Gujarat	14252	0	312.2	174.6	4.2	717	0.30
	MP	9378	0	191.2	108.2	0.0	578	0.00
	Maharashtra	20638	0	459.2	147.6	0.8	657	0.00
	Goa	586	0	12.4	11.3	0.5	54	0.00
	DD	342	0	7.7	7.3	0.4	67	0.00
	DNH	828	0	17.4	17.6	-0.2	88	0.00
	AMNSIL	703	0	15.8	5.3	-0.8	158	0.00
SR	Andhra Pradesh	10338	0	209.3	97.4	-1.4	571	0.00
	Telangana	12432	0	240.1	76.4	-2.8	372	0.00
	Karnataka	11723	0	216.2	43.5	0.1	984	0.00
	Kerala	3679	0	74.5	45.8	0.1	218	0.00
	Tamil Nadu	14573	0	321.7	187.9	3.8	2490	1.24
	Puducherry	415	0	8.7	9.1	-0.4	34	0.00
ER	Bihar	5831	0	107.4	101.5	-0.1	396	3.24
	DVC	3045	0	63.7	-49.3	0.9	559	0.46
	Jharkhand	1265	0	29.1	21.6	-0.5	197	0.90
	Odisha	5472	0	114.2	45.9	0.0	323	0.00
	West Bengal	7664	0	151.2	34.0	1.2	423	0.00
	Sikkim	95	0	1.5	1.4	0.1	39	0.00
NER	Arunachal Pradesh	135	0	2.3	2.7	-0.6	47	0.00
	Assam	1773	0	32.7	26.0	-0.2	105	0.00
	Manipur	187	0	2.5	2.6	-0.1	42	0.00
	Meghalaya	320	0	5.5	2.4	-0.2	48	0.00
	Mizoram	98	0	1.2	1.2	-0.4	14	0.00
	Nagaland	126	0	2.5	2.1	-0.1	16	0.00
	Tripura	252	0	4.7	4.4	-0.4	90	0.00

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

	Bhutan	Nepal	Bangladesh
Actual (MU)	26.1	0.6	-19.9
Day Peak (MW)	1069.0	94.1	-869.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	192.7	-108.2	75.4	-147.2	-12.7	0.0
Actual(MU)	188.5	-110.8	88.1	-153.7	-17.0	-5.0
O/D/U/D(MU)	-4.2	-2.7	12.7	-6.5	-4.3	-5.0

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL	% Share
Central Sector	6368	19565	7482	1715	455	35585	46
State Sector	9505	20912	6805	4565	11	41798	54
Total	15873	40476	14287	6280	466	77382	100

G. Sourcewise generation (MU)

	NR	WR	SR	ER	NER	All India	% Share
Coal	522	1022	541	533	13	2631	66
Lignite	28	13	47	0	0	88	2
Hydro	319	51	172	120	33	694	18
Nuclear	31	28	55	0	0	114	3
Gas, Naptha & Diesel	21	16	9	0	28	74	2
RES (Wind, Solar, Biomass & Others)	81	91	183	5	0	360	9
Total	1002	1221	1006	658	73	3961	100

Share of RES in total generation (%)	8.09	7.48	18.16	0.69	0.20	9.08
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	43.02	13.93	40.68	18.97	44.52	29.49

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.058
Based on State Max Demands	1.093

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: 19-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	1301	0.0	33.7	-33.7
2	HVDC	PUSAULI B/B	-	0	247	0.0	5.6	-5.6
3	765 kV	GAYA-VARANASI	2	106	318	0.0	1.6	-1.6
4	765 kV	SASARAM-FATEHPUR	1	41	212	0.0	2.0	-2.0
5	765 kV	GAYA-BALIA	1	0	470	0.0	7.1	-7.1
6	400 kV	PUSAULI-VARANASI	1	0	205	0.0	3.9	-3.9
7	400 kV	PUSAULI -ALLAHABAD	1	0	123	0.0	1.7	-1.7
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	0	585	0.0	9.4	-9.4
9	400 kV	PATNA-BALIA	4	0	962	0.0	18.2	-18.2
10	400 kV	BIHARSHARIFF-BALIA	2	0	283	0.0	3.9	-3.9
11	400 kV	MOTIHARI-GORAKHPUR	2	0	398	0.0	7.6	-7.6
12	400 kV	BIHARSHARIFF-VARANASI	2	46	133	0.0	0.7	-0.7
13	220 kV	PUSAULI-SAHUPURI	1	11	78	0.0	0.7	-0.7
14	132 kV	SONE NAGAR-RIHAND	1	0	0	0.0	0.0	0.0
15	132 kV	GARWAH-RIHAND	1	20	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	19	0.0	0.0	0.0
					ER-NR	0.4	96.0	-95.6
Import/Export of ER (With WR)								
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	1034	491	3.4	0.0	3.4
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	594	620	4.1	0.0	4.1
3	765 kV	JHARSUGUDA-DURG	2	0	293	0.0	3.5	-3.5
4	400 kV	JHARSUGUDA-RAIGARH	4	43	395	0.0	4.5	-4.5
5	400 kV	RANCHI-SIPAT	2	103	210	0.0	0.3	-0.3
6	220 kV	BUDHIPADAR-RAIGARH	1	10	104	0.0	1.4	-1.4
7	220 kV	BUDHIPADAR-KORBA	2	148	0	2.2	0.0	2.2
					ER-WR	9.8	9.7	0.1
Import/Export of ER (With SR)								
1	HVDC	JEYPORE-GAZUWAKA B/B	2	0	444	0.0	10.0	-10.0
2	HVDC	TALCHER-KOLAR BIPOLE	2	0	1979	0.0	46.3	-46.3
3	765 kV	ANGUL-SRIKAKULAM	2	0	3345	0.0	51.7	-51.7
4	400 kV	TALCHER-I/C	2	236	210	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	108.0	-108.0
Import/Export of ER (With NER)								
1	400 kV	BINAGURI-BONGAIGAON	2	151	157	0.0	0.9	-0.9
2	400 kV	ALIPURDUAR-BONGAIGAON	2	28	0	2.8	0.0	2.8
3	220 kV	ALIPURDUAR-SALAKATI	2	0	44	0.0	0.5	-0.5
					ER-NER	2.8	1.4	1.4
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	1	1007	0.0	16.9	-16.9
2	HVDC	VINDHYACHAL B/B	-	226	103	0.0	1.0	-1.0
3	HVDC	MUNDRA-MOHINDERGARH	2	0	443	0.0	10.9	-10.9
4	765 kV	GWALIOR-AGRA	2	0	1320	0.0	18.7	-18.7
5	765 kV	GWALIOR-PHAGI	2	0	1979	0.0	35.1	-35.1
6	765 kV	JABALPUR-ORAI	2	0	594	0.0	20.8	-20.8
7	765 kV	GWALIOR-ORAI	1	834	0	15.0	0.0	15.0
8	765 kV	SATNA-ORAI	1	0	832	0.0	17.9	-17.9
9	765 kV	BANASKANTHA-CHITORGARH	2	1564	0	27.1	0.0	27.1
10	765 kV	VINDHYACHAL-VARANASI	2	0	2300	0.0	39.7	-39.7
11	400 kV	ZERDA-KANKROLI	1	345	0	5.7	0.0	5.7
12	400 kV	ZERDA -BHINMAL	1	548	0	8.2	0.0	8.2
13	400 kV	VINDHYACHAL -RIHAND	1	955	0	21.6	0.0	21.6
14	400 kV	RAPP-SHUJALPUR	2	71	396	0.1	3.6	-3.4
15	220 kV	BHANPURA-RANPUR	1	34	59	0.2	0.4	-0.2
16	220 kV	BHANPURA-MORAK	1	0	30	0.7	0.2	0.5
17	220 kV	MEHGAON-AURAIYA	1	114	0	1.0	0.0	1.0
18	220 kV	MALANPUR-AURAIYA	1	86	0	1.5	0.0	1.5
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	81.1	165.4	-84.3
Import/Export of WR (With SR)								
1	HVDC	BHADRAWATI B/B	-	496	0	8.7	0.0	8.7
2	HVDC	RAIGARH-PUGALUR	2	472	1001	0.0	13.6	-13.6
3	765 kV	SOLAPUR-RAICHUR	2	536	1870	0.0	5.1	-5.1
4	765 kV	WARDHA-NIZAMABAD	2	0	3110	0.0	35.8	-35.8
5	400 kV	KOLHAPUR-KUDGI	2	1031	0	18.1	0.0	18.1
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	1.4	0.0	1.4
					WR-SR	28.2	54.5	-26.3

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 MANGDECHU HEP 4*180MW)	788	788	788	20.4
	ER	400kV TALA-BINAGURI 1,2,4 (& 400kV MALBASE - BINAGURI) i.e. BINAGURI RECEIPT (from TALA HEP (6*170MW)	0	0	0	0.2
	ER	220kV CHUKHA-BIRPARA 1&2 (& 220kV MALBASE - BIRPARA) i.e. BIRPARA RECEIPT (from CHUKHA HEP 4*84MW)	193	0	169	4.1
	NER	132kV GELEPHU-SALAKATI	28	13	22	0.5
	NER	132kV MOTANGA-RANGIA	52	19	38	0.9
NEPAL	NR	132kV MAHENDRANAGAR-TANAKPUR(NHPC)	0	0	0	0.0
	ER	NEPAL IMPORT (FROM BIHAR)	-10	0	-3	-0.1
	ER	400kV DHALKEBAR-MUZAFFARPUR 1&2	104	0	29	0.7
BANGLADESH	ER	BHERAMARA B/B HVDC (BANGLADESH)	-733	0	-725	-17.4
	NER	132kV COMILLA-SURAJMANI NAGAR 1&2	-136	0	-105	-2.5