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:15th 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 14.09.2021.

महोदय/Dear Sir,

आई०ई०जी०सी०-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 14-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 14th 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:** **15-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)	51145	46821	43318	20467	3125	164876
Peak Shortage (MW)	275	69	0	0	0	344
Energy Met (MU)	1124	1068	998	422	61	3673
Hydro Gen (MU)	355	43	163	140	28	729
Wind Gen (MU)	16	81	206	-	-	303
Solar Gen (MU)*	47.47	30.38	89.47	3.81	0.27	171
Energy Shortage (MU)	8.08	0.41	0.00	1.30	0.00	9.80
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	51345	47090	46970	20533	3169	164905
Time Of Maximum Demand Met (From NLDC SCADA)	19:47	18:56	11:19	20:19	18:49	19:32

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	0.044	0.12	2.42	5.39	7.93	80.01	12.06

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	8682	0	186.0	135.9	-0.4	89	0.00
	Haryana	7648	0	151.0	116.1	-0.2	221	0.00
	Rajasthan	9055	0	200.0	84.7	2.0	702	0.20
	Delhi	4740	0	97.1	83.3	-1.8	63	0.00
	UP	18708	0	365.1	149.1	-3.6	375	4.19
	Uttarakhand	1912	0	42.1	16.1	0.9	257	0.21
	HP	1428	0	31.2	-6.3	-1.9	30	0.03
	J&K(UT) & Ladakh(UT)	2491	200	46.5	21.6	0.4	347	3.45
	Chandigarh	258	0	5.3	5.7	-0.4	17	0.00
WR	Chhattisgarh	3363	0	79.6	35.0	-0.4	217	0.00
	Gujarat	13605	0	295.8	179.6	4.8	651	0.41
	MP	9480	0	208.9	136.7	0.3	766	0.00
	Maharashtra	19756	0	428.4	143.6	-1.9	599	0.00
	Goa	520	0	11.6	10.7	0.3	36	0.00
	DD	338	0	7.6	7.2	0.3	29	0.00
	DNH	836	0	19.5	19.6	-0.1	42	0.00
	AMNSIL	878	0	16.2	4.8	-1.1	173	0.00
SR	Andhra Pradesh	9588	0	198.7	59.6	-0.3	340	0.00
	Telangana	9595	0	191.6	44.1	-2.5	353	0.00
	Karnataka	9838	0	187.0	42.1	-0.9	460	0.00
	Kerala	3625	0	72.7	45.1	-0.4	120	0.00
	Tamil Nadu	15736	0	339.4	156.8	0.4	804	0.00
	Puducherry	430	0	8.9	8.9	-0.1	53	0.00
ER	Bihar	6075	0	95.7	94.5	-3.5	474	1.30
	DVC	3078	0	63.8	-37.0	0.1	309	0.00
	Jharkhand	1249	0	21.9	20.0	-3.4	182	0.00
	Odisha	4824	0	90.0	21.3	-0.3	330	0.00
	West Bengal	7316	0	148.8	42.3	-0.9	554	0.00
	Sikkim	91	0	1.5	0.2	1.3	77	0.00
NER	Arunachal Pradesh	138	0	2.4	2.1	0.0	25	0.00
	Assam	2091	0	41.1	34.7	0.1	107	0.00
	Manipur	206	0	2.8	2.8	0.0	39	0.00
	Meghalaya	304	0	5.3	2.7	0.0	26	0.00
	Mizoram	108	0	1.7	0.9	0.0	16	0.00
	Nagaland	143	0	2.7	2.3	0.0	22	0.00
	Tripura	289	0	5.4	5.0	-0.3	49	0.00

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

	Bhutan	Nepal	Bangladesh
Actual (MU)	49.7	0.3	-20.3
Day Peak (MW)	2222.0	53.0	-868.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	190.4	-53.8	10.6	-146.7	-0.4	0.0
Actual(MU)	164.0	-31.4	10.9	-146.5	-1.2	-4.1
O/D/U/D(MU)	-26.3	22.4	0.3	0.3	-0.7	-4.1

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL	% Share
Central Sector	6588	20815	7932	2215	409	37958	43
State Sector	11135	23542	11638	3425	11	49751	57
Total	17723	44356	19570	5640	420	87709	100

G. Sourcewise generation (MU)

	NR	WR	SR	ER	NER	All India	% Share
Coal	463	904	394	457	12	2230	59
Lignite	25	13	42	0	0	79	2
Hydro	355	43	163	140	28	729	19
Nuclear	27	28	65	0	0	120	3
Gas, Naptha & Diesel	26	17	11	0	28	82	2
RES (Wind, Solar, Biomass & Others)	83	112	327	4	0	526	14
Total	980	1116	1002	601	68	3766	100

Share of RES in total generation (%)	8.45	10.07	32.65	0.64	0.40	13.97
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	47.45	16.41	55.44	23.95	41.85	36.53

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.025
Based on State Max Demands	1.082

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: 15-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	1603	0.0	34.7	-34.7
2	HVDC	PUSAULI B/B	-	0	249	0.0	6.2	-6.2
3	765 kV	GAYA-VARANASI	2	145	525	0.0	3.7	-3.7
4	765 kV	SASARAM-FATEHPUR	1	481	232	0.0	2.0	-2.0
5	765 kV	GAYA-BALIA	1	3	449	0.0	5.1	-5.1
6	400 kV	PUSAULI-VARANASI	1	0	187	0.0	3.9	-3.9
7	400 kV	PUSAULI -ALLAHABAD	1	0	140	0.0	2.2	-2.2
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	0	639	0.0	9.1	-9.1
9	400 kV	PATNA-BALIA	4	0	818	0.0	11.5	-11.5
10	400 kV	BIHARSHARIFF-BALIA	2	40	177	0.0	1.6	-1.6
11	400 kV	MOTIHARI-GORAKHPUR	2	0	457	0.0	6.8	-6.8
12	400 kV	BIHARSHARIFF-VARANASI	2	88	204	0.0	0.7	-0.7
13	220 kV	PUSAULI-SAHUPURI	1	43	62	0.0	0.6	-0.6
14	132 kV	SONE NAGAR-RIHAND	1	0	0	0.0	0.0	0.0
15	132 kV	GARWAH-RIHAND	1	20	0	0.2	0.0	0.2
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	0.2	88.1	-87.8
Import/Export of ER (With WR)								
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	670	300	4.8	0.0	4.8
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	589	429	7.1	0.0	7.1
3	765 kV	JHARSUGUDA-DURG	2	38	185	0.0	1.3	-1.3
4	400 kV	JHARSUGUDA-RAIGARH	4	0	545	0.0	6.9	-6.9
5	400 kV	RANCHI-SIPAT	2	94	224	0.1	0.0	0.1
6	220 kV	BUDHIPADAR-RAIGARH	1	0	135	0.0	2.1	-2.1
7	220 kV	BUDHIPADAR-KORBA	2	114	46	0.4	0.0	0.4
					ER-WR	12.4	10.3	2.2
Import/Export of ER (With SR)								
1	HVDC	JEYPORE-GAZUWAKA B/B	2	0	394	0.0	8.6	-8.6
2	HVDC	TALCHER-KOLAR BIPOLE	2	0	1988	0.0	42.3	-42.3
3	765 kV	ANGUL-SRIKAKULAM	2	0	2683	0.0	46.6	-46.6
4	400 kV	TALCHER-I/C	2	684	1014	0.0	4.1	-4.1
5	220 kV	BALIMELA-UPPER-SILERRU	1	1	0	0.0	0.0	0.0
					ER-SR	0.0	97.5	-97.5
Import/Export of ER (With NER)								
1	400 kV	BINAGURI-BONGAIGAON	2	34	312	0.0	4.2	-4.2
2	400 kV	ALIPURDUAR-BONGAIGAON	2	190	223	0.0	0.5	-0.5
3	220 kV	ALIPURDUAR-SALAKATI	2	0	100	0.0	1.5	-1.5
					ER-NER	0.0	6.2	-6.2
Import/Export of NER (With NR)								
1	HVDC	BISWANATH CHARIALI-AGRA	2	0	370	0.0	8.5	-8.5
					NER-NR	0.0	8.5	-8.5
Import/Export of WR (With NR)								
1	HVDC	CHAMPA-KURUKSHETRA	2	0	2004	0.0	19.4	-19.4
2	HVDC	VINDHYACHAL B/B	-	94	497	0.9	3.0	-2.0
3	HVDC	MUNDRA-MOHINDERGARH	2	0	561	0.0	13.5	-13.5
4	765 kV	GWALIOR-AGRA	2	573	1162	0.0	12.6	-12.6
5	765 kV	GWALIOR-PHAGI	2	0	1898	0.0	33.0	-33.0
6	765 kV	JABALPUR-ORAI	2	0	764	0.0	20.3	-20.3
7	765 kV	GWALIOR-ORAI	1	751	0	14.1	0.0	14.1
8	765 kV	SATNA-ORAI	1	0	871	0.0	16.7	-16.7
9	765 kV	BANASKANTHA-CHITORGARH	2	1315	0	23.0	0.0	23.0
10	765 kV	VINDHYACHAL-VARANASI	2	0	1972	0.0	31.5	-31.5
11	400 kV	ZERDA-KANKROLI	1	335	0	5.7	0.0	5.7
12	400 kV	ZERDA -BHINMAL	1	665	466	10.1	0.0	10.1
13	400 kV	VINDHYACHAL -RIHAND	1	968	0	21.5	0.0	21.5
14	400 kV	RAPP-SHUJALPUR	2	186	341	0.0	1.8	-1.8
15	220 kV	BHANPURA-RANPUR	1	0	118	0.0	1.7	-1.7
16	220 kV	BHANPURA-MORAK	1	0	30	0.0	1.1	-1.1
17	220 kV	MEHGAON-AURAIYA	1	142	0	1.3	0.0	1.3
18	220 kV	MALANPUR-AURAIYA	1	108	0	1.9	0.0	1.9
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	78.7	154.6	-75.9
Import/Export of WR (With SR)								
1	HVDC	BHADRAWATI B/B	-	990	0	21.8	0.0	21.8
2	HVDC	RAIGARH-PUGALUR	2	2150	0	36.0	0.0	36.0
3	765 kV	SOLAPUR-RAICHUR	2	1247	1673	0.0	4.5	-4.5
4	765 kV	WARDHA-NIZAMABAD	2	0	2293	0.0	26.7	-26.7
5	400 kV	KOLHAPUR-KUDGI	2	1277	0	18.8	0.0	18.8
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	77.9	31.2	46.8

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)	814	0	727	17.4
	ER	400kV TALA-BINAGURI 1,2,4 (& 400kV MALBASE - BINAGURI) i.e. BINAGURI RECEIPT (from TALA HEP (6*170MW)	1036	1019	1028	24.7
	ER	220kV CHUKHA-BIRPARA 1&2 (& 220kV MALBASE - BIRPARA) i.e. BIRPARA RECEIPT (from CHUKHA HEP 4*84MW)	289	251	254	6.1
	NER	132kV GELEPHU-SALAKATI	30	0	22	0.5
	NER	132kV MOTANGA-RANGIA	53	20	40	1.0
NEPAL	NR	132kV MAHENDRANAGAR-TANAKPUR(NHPC)	-37	0	-11	-0.3
	ER	NEPAL IMPORT (FROM BIHAR)	-12	-5	-6	-0.1
	ER	400kV DHALKEBAR-MUZAFFARPUR 1&2	102	12	32	0.8
BANGLADESH	ER	BHERAMARA B/B HVDC (BANGLADESH)	-727	-714	-721	-17.3
	NER	132kV COMILLA-SURAJMANI NAGAR 1&2	-141	0	-125	-3.0