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:30th 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 29.09.2021.

महोदय/Dear Sir,

आई०ई०जी०सी०-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 29-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 29th 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:** **30-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)	55204	48348	43156	20932	2961	170601
Peak Shortage (MW)	1075	0	0	0	0	1075
Energy Met (MU)	1252	1080	965	441	55	3792
Hydro Gen (MU)	282	52	155	124	23	636
Wind Gen (MU)	34	97	139	-	-	270
Solar Gen (MU)*	58.68	24.92	94.90	4.39	0.12	183
Energy Shortage (MU)	5.17	0.00	0.00	1.10	0.00	6.27
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	57305	49268	44697	21037	3017	172481
Time Of Maximum Demand Met (From NLDC SCADA)	19:26	18:59	10:19	20:07	18:46	19:21

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	0.024	0.00	0.00	3.03	3.03	76.92	20.04

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	9832	0	217.5	137.4	-0.6	162	0.00
	Haryana	8506	0	180.8	139.5	1.0	262	0.15
	Rajasthan	9508	0	208.0	45.7	-2.2	174	0.00
	Delhi	5118	0	109.7	98.0	-0.1	113	0.00
	UP	20482	170	405.4	160.0	-0.6	286	1.33
	Uttarakhand	1929	0	43.5	15.3	0.7	120	0.24
	HP	1541	0	32.0	2.9	-0.7	41	0.00
	J&K(UT) & Ladakh(UT)	2557	250	49.0	26.9	2.0	374	3.45
	Chandigarh	284	0	5.7	5.9	-0.3	24	0.00
WR	Chhattisgarh	3712	0	88.4	42.2	-0.7	257	0.00
	Gujarat	13163	0	293.5	148.9	-0.6	616	0.00
	MP	10098	0	214.8	119.0	-0.7	792	0.00
	Maharashtra	19947	0	424.3	152.2	-2.3	568	0.00
	Goa	600	0	12.5	11.6	0.2	28	0.00
	DD	339	0	7.7	7.2	0.5	129	0.00
	DNH	847	0	19.7	19.8	-0.1	121	0.00
	AMNSIL	850	0	18.6	5.3	0.1	140	0.00
SR	Andhra Pradesh	8588	0	187.6	75.5	1.1	806	0.00
	Telangana	8134	0	169.9	18.5	-1.6	434	0.00
	Karnataka	10658	0	199.7	37.1	-1.0	534	0.00
	Kerala	3603	0	72.2	47.2	-0.3	216	0.00
	Tamil Nadu	15124	0	326.8	151.8	-0.2	815	0.00
	Puducherry	448	0	8.5	8.7	-0.2	26	0.00
ER	Bihar	5997	0	110.7	108.6	0.5	359	1.10
	DVC	3016	0	59.8	-38.6	-2.9	363	0.00
	Jharkhand	1479	0	26.9	21.8	-3.2	140	0.00
	Odisha	5088	0	109.0	35.4	0.2	438	0.00
	West Bengal	7114	0	132.5	24.5	1.0	451	0.00
	Sikkim	105	0	1.6	1.4	0.2	40	0.00
NER	Arunachal Pradesh	139	0	2.3	2.2	-0.1	38	0.00
	Assam	1964	0	36.1	28.5	0.6	125	0.00
	Manipur	201	0	2.6	2.6	0.0	40	0.00
	Meghalaya	311	0	5.6	2.5	0.0	42	0.00
	Mizoram	103	0	1.5	1.0	0.0	23	0.00
	Nagaland	143	0	2.4	2.0	-0.1	17	0.00
	Tripura	277	0	4.7	4.7	-0.5	62	0.00

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

	Bhutan	Nepal	Bangladesh
Actual (MU)	39.8	1.1	-20.1
Day Peak (MW)	1966.0	-44.5	-869.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	246.9	-93.5	-22.3	-130.8	-0.3	0.0
Actual(MU)	225.8	-93.7	-15.4	-113.2	-2.8	0.7
O/D/U/D(MU)	-21.1	-0.2	6.9	17.6	-2.5	0.7

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL	% Share
Central Sector	4033	21709	7652	2975	409	36777	45
State Sector	9875	20700	9528	4605	11	44719	55
Total	13908	42408	17180	7580	420	81496	100

G. Sourcewise generation (MU)

	NR	WR	SR	ER	NER	All India	% Share
Coal	568	943	456	468	10	2445	63
Lignite	24	11	38	0	0	73	2
Hydro	282	52	155	124	23	636	16
Nuclear	31	33	64	0	0	128	3
Gas, Naptha & Diesel	27	25	11	0	30	93	2
RES (Wind, Solar, Biomass & Others)	108	123	269	4	0	504	13
Total	1039	1186	993	597	63	3879	100

Share of RES in total generation (%)	10.43	10.35	27.05	0.74	0.19	13.00
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	40.46	17.49	49.12	21.59	36.55	32.69

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.016
Based on State Max Demands	1.054

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: 30-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	1101	0.0	26.3	-26.3
2	HVDC	PUSAULI B/B	-	0	245	0.0	6.1	-6.1
3	765 kV	GAYA-VARANASI	2	337	279	0.8	0.0	0.8
4	765 kV	SASARAM-FATEHPUR	1	140	109	0.8	0.0	0.8
5	765 kV	GAYA-BALIA	1	0	621	0.0	11.4	-11.4
6	400 kV	PUSAULI-VARANASI	1	0	181	0.0	3.5	-3.5
7	400 kV	PUSAULI -ALLAHABAD	1	0	133	0.0	2.3	-2.3
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	0	517	0.0	9.6	-9.6
9	400 kV	PATNA-BALIA	4	0	825	0.0	15.0	-15.0
10	400 kV	BIHARSHARIFF-BALIA	2	0	279	0.0	4.5	-4.5
11	400 kV	MOTIHARI-GORAKHPUR	2	0	289	0.0	5.0	-5.0
12	400 kV	BIHARSHARIFF-VARANASI	2	129	104	0.3	0.0	0.3
13	220 kV	PUSAULI-SAHUPURI	1	24	77	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	0.4	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	0	0.0	0.0	0.0
					ER-NR	2.3	84.3	-82.0
Import/Export of ER (With WR)								
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	226	874	0.0	9.3	-9.3
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	829	500	8.4	0.0	8.4
3	765 kV	JHARSUGUDA-DURG	2	74	285	0.0	2.2	-2.2
4	400 kV	JHARSUGUDA-RAIGARH	4	32	468	0.0	4.5	-4.5
5	400 kV	RANCHI-SIPAT	2	230	161	2.8	0.0	2.8
6	220 kV	BUDHIPADAR-RAIGARH	1	0	158	0.0	2.6	-2.6
7	220 kV	BUDHIPADAR-KORBA	2	116	0	1.4	0.0	1.4
					ER-WR	12.6	18.6	-6.0
Import/Export of ER (With SR)								
1	HVDC	JEYPORE-GAZUWAKA B/B	2	539	0	8.9	0.0	8.9
2	HVDC	TALCHER-KOLAR BIPOLE	2	0	793	0.0	19.3	-19.3
3	765 kV	ANGUL-SRIKAKULAM	2	0	2736	0.0	44.6	-44.6
4	400 kV	TALCHER-I/C	2	633	22	12.8	0.0	12.8
5	220 kV	BALIMELA-UPPER-SILERRU	1	2	0	0.0	0.0	0.0
					ER-SR	8.9	64.0	-55.0
Import/Export of ER (With NER)								
1	400 kV	BINAGURI-BONGAIGAON	2	0	308	0.0	0.0	0.0
2	400 kV	ALIPURDUAR-BONGAIGAON	2	3	445	0.0	4.5	-4.5
3	220 kV	ALIPURDUAR-SALAKATI	2	0	131	0.0	1.9	-1.9
					ER-NER	0.0	6.4	-6.4
Import/Export of NER (With NR)								
1	HVDC	BISWANATH CHARIALI-AGRA	2	0	703	0.0	17.0	-17.0
					NER-NR	0.0	17.0	-17.0
Import/Export of WR (With NR)								
1	HVDC	CHAMPA-KURUKSHETRA	2	0	2010	0.0	39.5	-39.5
2	HVDC	VINDHYACHAL B/B	-	493	0	6.0	0.0	6.0
3	HVDC	MUNDRA-MOHINDERGARH	2	0	494	0.0	11.9	-11.9
4	765 kV	GWALIOR-AGRA	2	0	1674	0.0	26.5	-26.5
5	765 kV	GWALIOR-PHAGI	2	0	1507	0.0	25.8	-25.8
6	765 kV	JABALPUR-ORAI	2	0	803	0.0	26.9	-26.9
7	765 kV	GWALIOR-ORAI	1	673	0	10.9	0.0	10.9
8	765 kV	SATNA-ORAI	1	0	952	0.0	20.1	-20.1
9	765 kV	BANASKANTHA-CHITORGARH	2	1203	0	16.2	0.0	16.2
10	765 kV	VINDHYACHAL-VARANASI	2	0	3150	0.0	56.1	-56.1
11	400 kV	ZERDA-KANKROLI	1	298	0	4.7	0.0	4.7
12	400 kV	ZERDA -BHINMAL	1	609	0	9.8	0.0	9.8
13	400 kV	VINDHYACHAL -RIHAND	1	971	0	21.4	0.0	21.4
14	400 kV	RAPP-SHUJALPUR	2	132	347	0.3	2.3	-1.9
15	220 kV	BHANPURA-RANPUR	1	45	80	0.1	0.5	-0.3
16	220 kV	BHANPURA-MORAK	1	0	30	0.6	0.3	0.4
17	220 kV	MEHGAON-AURAIYA	1	152	0	1.3	0.0	1.3
18	220 kV	MALANPUR-AURAIYA	1	115	0	2.1	0.0	2.1
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	73.4	209.6	-136.1
Import/Export of WR (With SR)								
1	HVDC	BHADRAWATI B/B	-	500	8	10.2	0.0	10.2
2	HVDC	RAIGARH-PUGALUR	2	2146	0	37.2	0.0	37.2
3	765 kV	SOLAPUR-RAICHUR	2	974	1897	3.6	13.1	-9.6
4	765 kV	WARDHA-NIZAMABAD	2	0	1997	0.0	22.4	-22.4
5	400 kV	KOLHAPUR-KUDGI	2	1269	0	19.4	0.0	19.4
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	80	1.5	0.0	1.5
					WR-SR	71.9	35.5	36.4

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)	637	0	502	12.0
	ER	400kV TALA-BINAGURI 1,2,4 (& 400kV MALBASE - BINAGURI) i.e. BINAGURI RECEIPT (from TALA HEP (6*170MW)	932	795	830	19.9
	ER	220kV CHUKHA-BIRPARA 1&2 (& 220kV MALBASE - BIRPARA) i.e. BIRPARA RECEIPT (from CHUKHA HEP 4*84MW)	302	0	263	6.3
	NER	132kV GELEPHU-SALAKATI	41	14	20	0.5
	NER	132kV MOTANGA-RANGIA	55	0	46	1.1
NEPAL	NR	132kV MAHENDRANAGAR-TANAKPUR(NHPC)	-61	0	-3	-0.1
	ER	NEPAL IMPORT (FROM BIHAR)	118	-31	9	0.2
	ER	400kV DHALKEBAR-MUZAFFARPUR 1&2	-101	0	40	1.0
BANGLADESH	ER	BHERAMARA B/B HVDC (BANGLADESH)	-733	-723	-730	-17.5
	NER	132kV COMILLA-SURAJMANI NAGAR 1&2	-136	0	-106	-2.6