

**Report on National Webinar on “Distributed Generation  
Deployment” Held on 12 March 2021**

<b>Date of Event</b>	<b>12.03.2021</b>
<b>Name and Type of Event</b>	<b>National Webinar</b> on “Distributed Generation Deployment”
<b>Conducted by</b>	Mr. Ashwini Kumar, Dr. Keerti Rai and Miss. Shatabhisa Sinha
<b>Number of Participants</b>	<b>100</b>

**Topic of National Webinar - Distributed Generation Deployment**

The Resource person ***Dr. ShilpaKalambe***, Head of Department, Department of Electrical Engineering, Dr. BabasahebAmbedkar College of Engineering and Research, Nagpur, presented a talk to the Faculties, Students, Research Scholars and other participants. The National Webinar enabled them to understand about the Distributed Generation Deployment

**About the Speaker**

Dr. ShilpaKalambe, Head of Department, Department of Electrical Engineering, Dr. BabasahebAmbedkar College of Engineering and Research, Nagpur, presented a talk to the Faculties, Students, Research Scholars and other participants. The National Webinar enabled them to understand about the Distributed Generation Deployment

## **About the Topic**

The speaker gave informative and illuminating lecture with valuable content. The session was valuable not only for students but for faculties, research scholars, industry persons and other participants. Through this the participants were able to understand the Distributed Generation Deployment.

Distributed generation (DG) as electricity generation sited close to the load it serves, typically in the same building or complex. It is any electric power production technology that is integrated within distribution systems. Electric Power Research Institute (EPRI) defined DG as generation from 'few kilowatts up to 50MW'. International Energy Agency (1997) (IEA), defines renewable energy resources as the sources that are generally not subject to exhaustion, such as the heat energy from the sun, the velocity of wind, organic energy of biomass, pressure of falling water, tidal energy and geothermal energy.

World economist and environmentalists have committed to a climate-energy package that would decrease the greenhouse gas emissions by 20% by 2030, make 20% energy savings, and bring renewable energy sources up to 20% of total energy use.

## **Need of Distributed generation deployment**

Distributed generation can benefit the environment if its use reduces the amount of electricity that must be generated at centralized power plants, in turn can reduce the environmental impacts of centralized generation. Specifically:

- Existing cost-effective distributed generation technologies can be used to generate electricity at homes and businesses using renewable energy resources such as solar and wind.
- Distributed generation can harness energy that might otherwise be wasted—for example, through a combined heat and power system.
- By using local energy sources, distributed generation reduces or eliminates the “line loss” (wasted energy) that happens during transmission and distribution in the electricity delivery system.

## Venue and Participants

Webinar was conducted on Google Meet and Live telecast on Youtube. **Total participants registered were 235 from different University/Institutes.** Total numbers of attendees were 235. There are 200 live participants on Youtube.

## Event Poster



## Certificate Template

**JGi ARKA JAIN University**  
Jharkhand  
Estd. Under Jharkhand State Private University Act

**Certificate of Participation**  
Date  
12 March 2021

Awarded to  
**Mohammad Irshad Shaik**  
From King Khalid University Abha Saudi Arabia

For successful participation in the National webinar on  
**"Distributed Generation Deployment"**

Organized by  
Department of Engineering

Dr. Keerti Rai  
Event Convener

Prof Ashwini Kumar  
Asst. Dean, AJU

Prof (Dr.) S.S. Razi  
Vice-Chancellor, AJU

**JGi ARKA JAIN University**  
Jharkhand  
Estd. Under Jharkhand State Private University Act

**Certificate of Participation**  
Date  
12 March 2021

Awarded to  
**Irena Bharat Chaudhari**  
From Bharati Vidyapeeth's College of Engineering, Lavale

For successful participation in the National webinar on  
**"Distributed Generation Deployment"**

Organized by  
Department of Engineering

Dr. Keerti Rai  
Event Convener

Prof Ashwini Kumar  
Asst. Dean, AJU

Prof (Dr.) S.S. Razi  
Vice-Chancellor, AJU

**JGi ARKA JAIN University**  
Jharkhand  
Estd. Under Jharkhand State Private University Act

**Certificate of Participation**  
Date  
12 March 2021

Awarded to  
**Ujjwala Prabhakar Panchbhai**  
From Dr Babasaheb Ambedkar College of engineering and research nagpur

For successful participation in the National webinar on  
**"Distributed Generation Deployment"**

Organized by  
Department of Engineering

Dr. Keerti Rai  
Event Convener

Prof Ashwini Kumar  
Asst. Dean, AJU

Prof (Dr.) S.S. Razi  
Vice-Chancellor, AJU

**JGi ARKA JAIN University**  
Jharkhand  
Estd. Under Jharkhand State Private University Act

**Certificate of Participation**  
Date  
12 March 2021

Awarded to  
**Jay Shree Malviya**  
From University Institute of Technology, RGPV

For successful participation in the National webinar on  
**"Distributed Generation Deployment"**

Organized by  
Department of Engineering

Dr. Keerti Rai  
Event Convener

Prof Ashwini Kumar  
Asst. Dean, AJU

Prof (Dr.) S.S. Razi  
Vice-Chancellor, AJU

**JGi ARKA JAIN University**  
Jharkhand  
Estd. Under Jharkhand State Private University Act

**Certificate of Participation**  
Date  
12 March 2021

Awarded to  
**Priyanka Kumari**  
From Arka Jain university

For successful participation in the National webinar on  
**"Distributed Generation Deployment"**

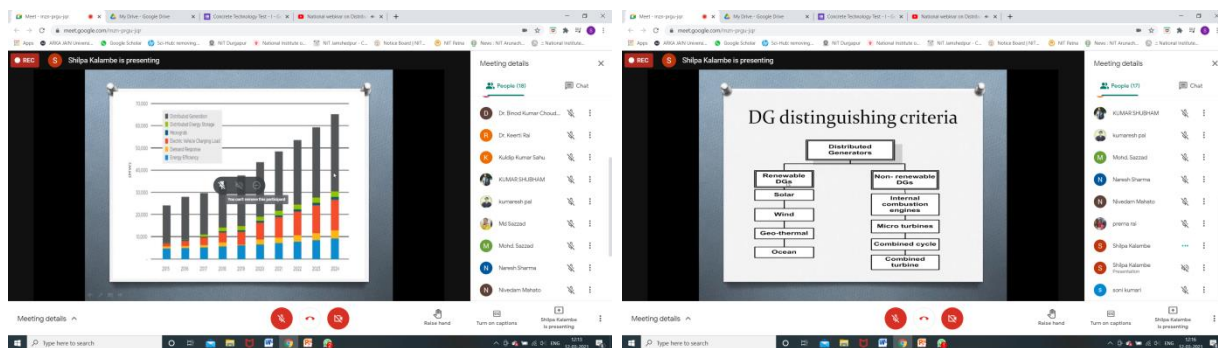
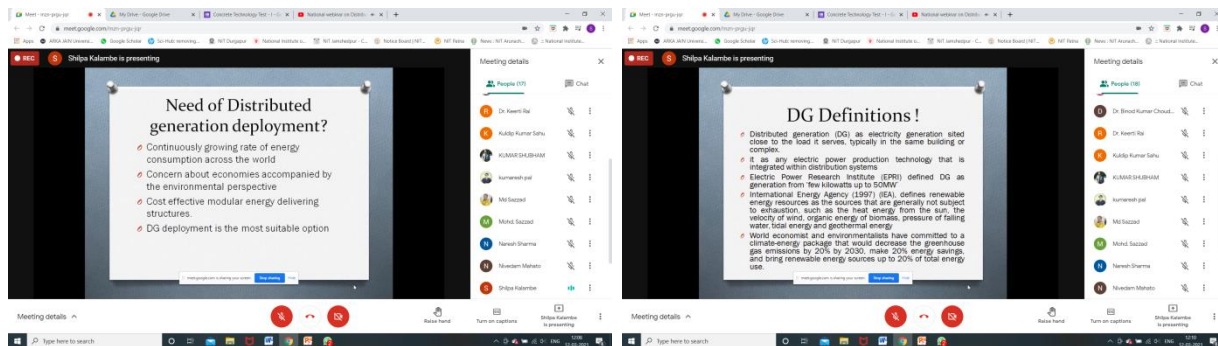
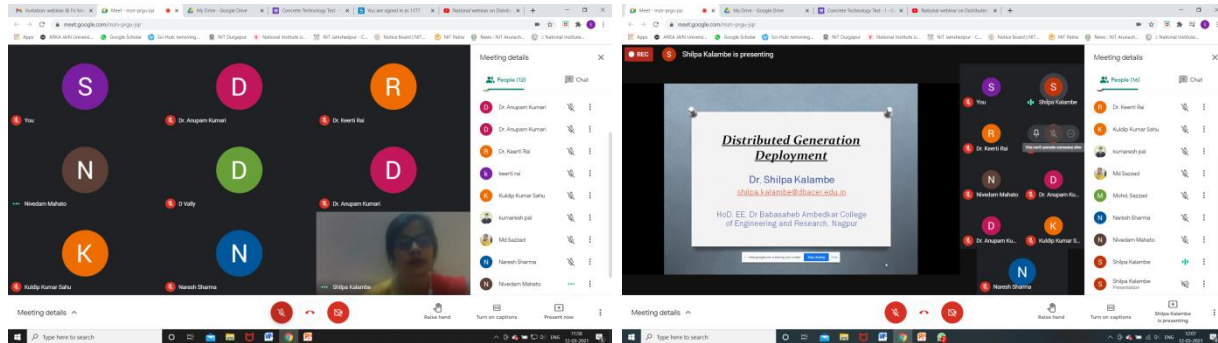
Organized by  
Department of Engineering

Dr. Keerti Rai  
Event Convener

Prof Ashwini Kumar  
Asst. Dean, AJU

Prof (Dr.) S.S. Razi  
Vice-Chancellor, AJU

# Webinar Pictures



The screenshot shows a Google Meet interface. The main window displays a presentation slide titled "DR Techniques". The slide content is as follows:

- DR Techniques**
  - Traditional
    - Operational Generation
    - Non-Operational Generation
  - Non-Traditional
    - Dist. Storage
    - SDSD
    - CDSD
    - PS

Below the main categories, there are several boxes representing different data reduction techniques:

- Recompressing** (linked from Traditional)
- Thin Client** (linked from Traditional)
- Archival Dedupe** (linked from Traditional)
- Reversible Dedupe** (linked from Traditional)
- Thin Client** (linked from Non-Traditional)
- Archival Dedupe** (linked from Non-Traditional)
- Reversible Dedupe** (linked from Non-Traditional)
- Thin Client** (linked from Non-Traditional)

At the bottom of the slide, there are labels for different storage types: **Dist**, **San**, **MT**, **CT**, **Full disk**, **Thin Client**, **SDSD**, **CDSD**, **PS**, **San**, **MT**, **CT**, **Full disk**, **Thin Client**, **SDSD**, **CDSD**, **PS**.

The sidebar on the right shows the following participants:

- Shilpa Kumbhar
- R
- A
- N
- D
- Dr. Anupam Kumar
- Dr. Anupam Kumar
- N

The bottom of the screen shows the Windows taskbar with the Start button, a search bar, and several open applications.

The screenshot shows a Google Meet window with a presentation slide titled "Compatibility of DG with conventional plants". The slide compares three types of DG: Gas turbines, Internal combustion engines, and Diesel engines across several parameters. The meeting interface shows participants: Shilpa Kalambe (presenting), Dr. Anoop Kumar, Dr. Arjun Kumar, and Dr. Anoop Kumar. The time is 12:24 PM.

	Gas turbines	Internal combustion engines	Diesel engines
<b>Supply reliability</b>	Good	Intermediate	Good
<b>Voltage stability</b>	Depends on system condition	Improves with appropriate DG installation	Good
<b>Transmission losses</b>	Depends on transmission line length	Reduces to a large extent	Good
<b>Site sensitive</b>	High	Moderate	Low
<b>Environment friendly</b>	Negligible	High	Good
<b>Power quality</b>	No change	Improved	Good
<b>Cost effective</b>	Low	High	High
<b>Efficiency</b>	Low	High	High
<b>Installation cost</b>	High	Low	Low

ARKA JAIN University – IQAC Cell – Event Reporting Format