



ASNT
INDIA
SECTION

INTERNATIONAL CONFERENCE & EXHIBITION ON NDE
ICENDE - 2023

24th, 25th & 26th August 2023

VENUE: The Corinthians Resort and Club Pune,
Nyati County, Undri, Pune, Maharashtra 411060

SPECIAL SESSIONS FOR ENERGY SECTOR



Message From
Special Session Chair

It is with great pleasure that I welcome you to join the Special Session on Role of NDE in Energy Production in the international conference and exhibition on NDE (ICENDE 2023) organized by ASNT India section. This will be held on 24th - 26th August 2023 at Corinthians Club and Resort, Pune.

India's energy demand will increase more than that of any other country over the next two decades due to the fast expanding economy, population, urbanisation and industrialisation. India is a major force in the global energy economy. Over 80% of India's energy needs are met by three fuels: coal, oil and solid biomass.

Coal has underpinned the expansion of electricity generation and industry, and remains the largest single fuel in the energy mix. Oil consumption and imports have grown rapidly on account of rising vehicle ownership and road transport use. Biomass, primarily fuelwood, makes up a declining share of the energy mix, but is still widely used as a cooking fuel. Despite recent success in expanding coverage of LPG in rural areas, 660 million Indians have not fully switched to modern, clean cooking fuels or technologies. Natural gas and modern renewable sources of energy have started to gain ground. India has a very ambitious goal to achieve net zero emission target by 2070 as declared in the UN Climate Summit COP 26 in Glasgow.

Non-destructive testing (NDT) plays a vital role in the energy generation industries as it ensures the integrity of the components and vessels used. Non-Destruction Evaluation (NDE) activities is even more critical for these industry. A special session on the Energy and its related need is need of the hour. In this special session on connecting energy, various topics are covered, such as:

1. **Pressure Vessel Fabrication Technologies and Inspection:** This includes an overview of the different technologies used for fabrication of pressure vessels and its inspection methodologies.
2. **Non-destructive evaluation of Cross County Pipelines:** Recent trends in this inspection using vehicle with suitable configured sensors, electronics and contain data recording facilities is to be discussed.
3. **NDE in Green Hydrogen Production:** Safety plays an important role in green hydrogen production and transportation which can be confirmed using recent, advanced and conventional NDE methodologies.

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4. **Case Studies:** Various case studies on the failure of the components and vessels in various energy industries would be discussed.

5. **Integrated NDE solutions for Industrial Cylinders:** Storage cylinders having near hemispherical ends and constructed from a variety of materials. Since the cylinder operates in the low cycle fatigue regime, careful nondestructive inspection becomes essential. A stringent inspection is performed to guarantee a cylinder life with no periodic inspection.

In conclusion, this conference connecting energy and NDE will cover a wide range of topics related to the production, storage, transportation, and use of this clean and sustainable energy source. It can help raise awareness about the potential of Green Hydrogen in the country and the need for a collaborative effort to transition to a low-carbon economy. I sincerely hope that ICENDE 2023 will provide you a great experience and that you will enjoy the presentations, panel discussions, and meet old and new friends in the energy sector. I encourage you to join in—widening perspectives of where green energy is headed.

With my best and warm regards,

Dr. R. VENUGOPAL IPSS,

Joint Chief Controller of Explosives,

PESO, Vadodara, Gujarat.

Chair of Special Session – ICENDE 2023

TOPICS COVERED

- ★ NDE in pressure vessel fabrication
- ★ NDE in green hydrogen production
- ★ Inspection in cross country pipelines
- ★ NDE solutions for industrial cylinders
- ★ Use of NDE in Refineries



Abstract Submission: Deadline 31st July 2023
Visit <https://icende.in/abstract>



Delegate Registration:
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