

# Report on “Fusion Energy: A Global Need” by Mr Aroh Shrivastav

17th February 2021

Mr Aroh Shrivastav, Scientific officer, IPR had delivered an expert lecture on “Fusion Energy: A Global Need” to chemical engineering students on 17th February 2021. He discussed various energy sources and elaborated the fusion energy in depth. He gave a brief idea about the fundamentals of fusion energy and how it can be implemented as a better energy source.

While discussing fusion energy, he talked about the usefulness of this energy form and its applications. He also explained plasma in detail and the reactor used for controlled fusion reactions- Tokamak- was also well demonstrated in depth. He enlightened the application of fusion energy and how shifting towards this source can be benefitted to future generations was explained by him. Knowledge was certainly increased amongst the students through this lecture.

The image displays two screenshots from a Google Meet session. The top screenshot, titled "Plasma Confinement", shows a slide with diagrams illustrating magnetic confinement. It compares a plasma cylinder with "No magnetic field" (where particles escape) and "With magnetic field" (where particles are contained). It also shows diagrams of magnetic fields generated by a central current, toroidal current, and twisted field lines. The bottom screenshot, titled "Tokamak", shows a slide with the word "Tokamak" in large orange letters, a glowing blue plasma in a reactor, a cross-section of a tokamak chamber, a bowl of soup with steam, and a cartoon character with a lightbulb idea. Both screenshots show a participant list on the right and a presentation control bar at the bottom.