

# **Sustainable Development using Renewable Energy Technology**

**Rakhi Biswas, Sunit Jana, Koushik Pal, Deepshikha Chatterjee, Nikita Pal, Anirban Ghosal\***

Department of Electronics & Communication Engineering

Guru Nanak Institute of Technology, Kolkata, India

JIS College of Engineering, Kolkata\*

**Abstract:** *India has a lot of problems to deal with when it comes to sustainable development because its population and economy are growing so quickly. The shift to renewable energy sources is a major factor in sustainable development. Research on renewable energy has become a crucial subject in the twenty-first century due to the escalating energy crisis. Conversely, the energy extraction process, akin to the combustion of fossil fuels, generates significant pollution globally; consequently, the utilization of these energy sources results in their rapid depletion. The concept of sustainable development in India and the existing framework for renewable energy policy are examined in this paper. It looks at how important renewable energy is to reaching the Sustainable Development Goals (SDGs) and how it could change economies.*

**Keywords:** Climate change, renewable energy, sustainable development, and growth of the economy.

