

As a result, IoT is a system where the Internet connects to the real world via sensors like RFID. So, this study represents a comprehensive exploration of the Monitoring, Control, and Integration technologies in the context of Renewable Energy Systems, with a nuanced focus on the transformative role played by IoT. The integration of IoT with renewable energy technologies (RETs) offers a platform for sustainable energy growth, enhancing optimization, load control, and climate change mitigation.