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Abstract:

Transmission line towers, although built according to code provisions, can fail during mandatory testing needed in many countries, resulting in massive damage to the pow
Various types of premature errors found during various full-scale transmission line testing. While in natural calamities such as the cyclone, the flood is likely to kill the
transmission line tower. We need an_ authenticated message from the 'towers concerned to repair the towers. So, we're bringing in a camera module, a MEMS sensor that
mounted in each node of the towers. This will send a warning when the MEMS sensor moves to an unusual location; and 10 eventually, via the camera module, we can tra
lively position.In this invention, this ultimate device looks like a black box.

<u>**Complete Specification**</u>

Field of Invention
In electrical engineering and the administration of power systems, Node Transmission Line
Monitoring is a revolutionary new development. Nodes along transmission lines equipped
with state-of-the-an sensor technologies allow for the continuous monitoring and analysis of
factors including temperature, voltage, current, and humidity in real time. Preventing
expensive downtime and allowing for proactive maintenance, this provides for early
identification of possible problems such equipment breakdowns, line faults, or environmental
pressures. Node Transmission Line Monitoring is effective because it improves efficiency
and reliability by giving a holistic picture of the transmission grid's status and performance.
Data fusion and machine learning are two methods that may be used to handle the massive
amounts of data that are gathered in order to find patterns, forecast trends, and improve
network operations. With the help of Node Transmission Line Monitoring, renewable energy
sources may be more easily integrated into the grid. It aids in the shjfi towards a more
sustainable energy environment by allowing accurate monitoring and control of power flow,
which helps solve issues related to intermittency and unpredictability. The advent of Node

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