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| **Title:** | Smart System To Monitor and Control Transformer Health Condition in Sub-Station | | |
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| **Abstract:** |  |
| A substation is the most important component of transporting or distributing electricity in any region or industry. To control and monitor the substation, different automation structures are developed in our country and around the world. The proposed system is to develop an IoT-based smart solution for monitoring and controlling the transformer in a substation. The control unit serves as the hub for all the system equipment and activities. Using an ultrasonic sensor and the DHT11, this smart solution can monitor transformer oil and temperatures. When the temperature of the transformer climbs over the specified value, the cooling fan turns on and provides sufficient air to lower the temperature. The voltage and current sensors' collected data determine whether the circuit is open or closed. This eliminates the expense at the substation by minimizing operating costs. As a result, both observational and operational effectiveness will undoubtedly improve. | |