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| **Title:** | Renewable Powered Portable Weather Update Station | | |
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| **Abstract:** |  |
| Weather estimate, in reality continuous weather gauge is essential for our day by day life particularly in agribusiness. National weather data does not generally contain the precise information of each area rather it contains the information of closest climate station for a timeframe. The fundamental aim of this project is to develop a RES powered Weather Station which will help to monitor the weather parameters. Such a project contains sensors for detecting temperature, humidity, raindrop, carbon mono-oxide, smoke, LPG in the environment, barometric pressure, altitude etc. The information from the sensors are gathered by the Arduino. Arduino sends the sensors information in LCD display. Additionally, the device sends an SMS which contains weather information to the user with the assistance of a GSM module. At the end of the project the results have been compared between the national weather data and the actual reading. According to the results, the percentage of deviation for Temperature is 1%, Humidity is 5% and Barometric Pressure is 8%. | |