

# Design and Development of Solar Powered Compost Bin Low Cost Automation

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**Abstract:** *The waste management is very important thing or task to control and reduce amount of waste. And composting has been acknowledged as a main stay for the proper waste management. There are compost bins and that are worked on electricity. But the only problem we might face is its cost and increase in electricity bills. The aim of this project is to enhance the interactivity in household levels by making it easier and cheaper and enabling the user to interact with it as well as making the entire process user friendly. The 'Solar Powered Compost Bin' will be definitely a great work got proper waste management at houses. And the parameters like temperature, humidity as well as moisture are also controlled. The problem of increased in electricity bills is overcome, as this compost bin is totally worked on solar power supply. Also the 'Solar Powered Compost Bin' will enhance the public health as well as health of soil.*

**Keywords:** Automation, Sensor, Solor, Automation, Microcontroller.

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