



Industry Scrap Segregation using PLC

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Vaishali A. Katkar ; Smita S. Pawar ; Amruta Katke All Authors

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Abstract:

Growth of Industries has proved long term growth of the Indian economy. But the increasing economy has claimed another unaware victim - the industry scrap. There is a huge problem of disposal, segregation and recycling of industry scrap. This is an alarming situation for industries to make a proper management of these wastes before they become dangerous to health and environment. The waste management includes proper segregation, reuse and disposal to keep public lives safe and to build a sustainable environment. Reuse of useful scrap like metal, plastics etc. needs to be properly segregated before going for processing. Most of the times the segregation is done manually for small scale industries but it is time consuming and less efficient. As a solution for this, a paradigm is developed to automatically segregate metal and plastic from the industry scrap. The system uses IR sensors for level detection and Inductive and capacitive sensors for metal and nonmetal detection. The whole system is controlled through PLC with the voice command given to Google Assistance to start and stop the system. HMI displays the working status of the devices and IOT is used to determine and display the status of metal and plastic bin.

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