TOP STUDENT PROJECTS

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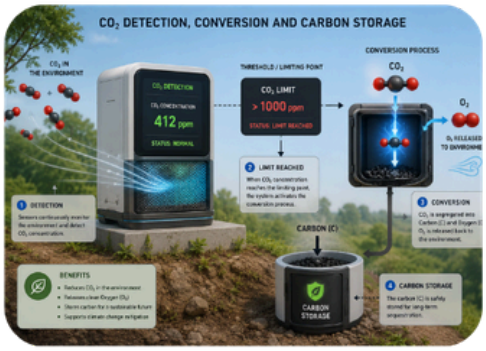
PROJECT TITLE

CO2 DETECTION AND SEPARATION



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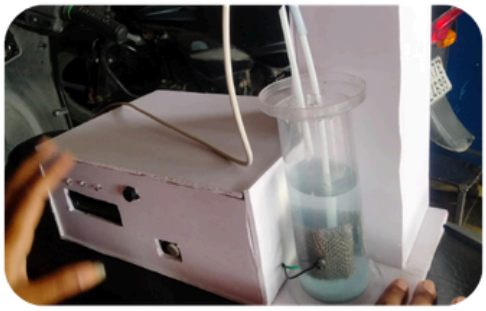


PROBLEM STATEMENT

High levels of CO_2 released from industries, vehicles, and urban activities contribute to air pollution and environmental imbalance. Existing systems mainly focus on CO_2 detection and do not provide an integrated solution for monitoring, separation, and carbon storage. Therefore, a smart system is needed to continuously monitor CO_2 levels, reduce harmful emissions, and support sustainable environmental management.

SOLUTION

Industries, vehicles, and urban areas release large amounts of carbon dioxide (CO_2) into the environment. High CO_2 levels increase air pollution, global warming, and climate change. Existing systems mainly detect CO_2 or only store it temporarily, but they do not provide a complete smart solution for detection, separation, and carbon storage together. There is a need for an affordable and automatic system that can: Continuously monitor environmental CO2 levels; alert when pollution reaches dangerous limits. Reduce harmful CO_2 from the atmosphere. Convert CO_2 into reusable carbon and oxygen. The invention uses a CO2 sensor to continuously monitor the carbon dioxide level in the environment.





SCAN ME

Technology stacks:

- ESP 32
- DHT 11
- MQ135
- LCD display
- Blink iot
- Relay module
- Electrolysis chamber