



BIO GAS OPTIMIZER

Enhance the Use of a Renewable Energy.



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Problem

Difficulty to maintain domestic Biogas Plants

Unavailability of method to monitor and control conditions inside the digester.

Less efficiency in Biogas Plants.



**Frequent failures and
fluctuations of production
rate** in Biogas Plants

**Increasing price of LP gas
and pollution** caused by it.

**Ineffective repair and
maintenance services.**

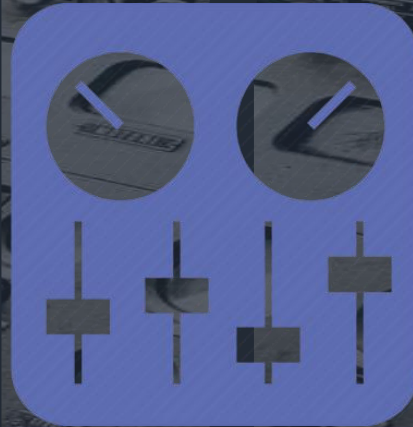


Solution

Domestic Biogas plant with Full Monitoring and Partial Control System.



Realtime Monitoring



Control Conditions



Higher Efficiency
(Up to 52%)

Monitoring and Controlling System can be Installed to an Existing Plant.

Market Validation

Existing Biogas
Plants Failures

17.5%

FAIL

Negative Feedback
From Users

23%



Market Size

60,000+ Houses

1200+ Small Scale
Restaurants

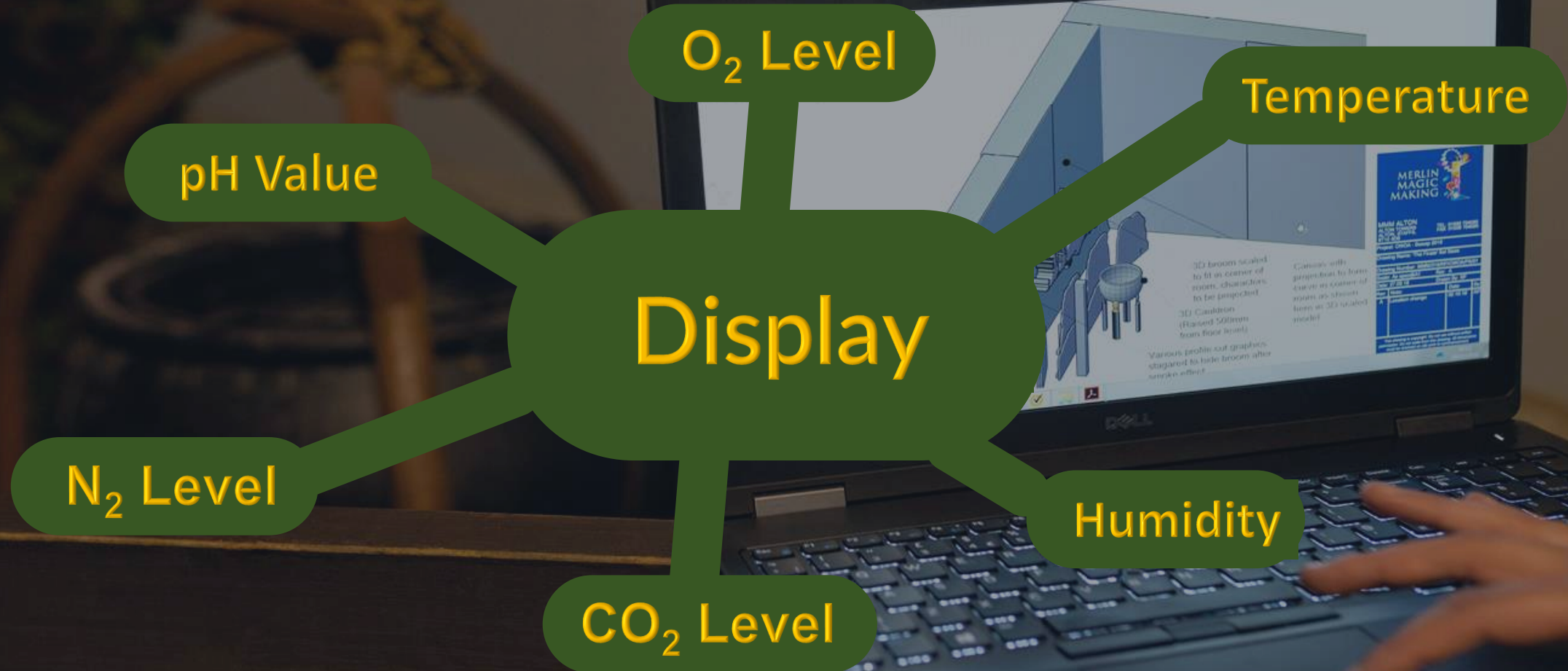


A close-up, high-contrast photograph of industrial machinery, likely a lathe or mill, showing various metal components, gears, and a central spindle. The image is in grayscale with a blue tint. The word "Product" is overlaid in a bold, yellow, sans-serif font. The text is flanked by two vertical blue bars, one on the left and one on the right, which are part of a larger design element.

Product



Realtime Monitor Inside the Digester



Access Data from Anywhere



Through Mobile



Through built-in Display

Control Internal Factors

Control pH Value in Digester Automatically

Control Gas Levels Manually or Automatically

Maintain Optimum Favorable Conditions for Digestion Process

Business Model

Rs

Capital Cost
30,000

4

Payback
Time
Years

40% Save LPG
Usage

Waste Management

Free Fertilizer

40%
Save



Market Adaption

With the busy life style BGO is the best solution

Conditions inside the digester can be remotely monitored and controlled.

Competition

We are Proud to say that BGO is the only place
to purchase this Environmental Friendly
Product.

Team



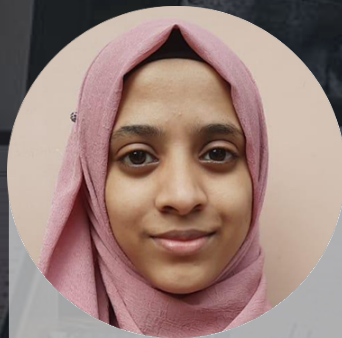
P.H.I.J. Wijepala
BSc Engineering Pdn (UG)
Dept. Electrical & Electronic
Engineering

- Came up with the first idea
- Did the market research
- Designing the plant



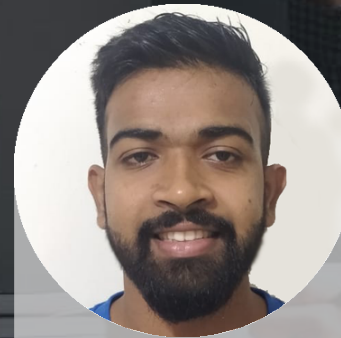
M.A.W.S. Yapa
BSc Engineering Pdn (UG)
Dept. Electrical &
Electronic Engineering

- Programming and calibration of the sensors.
- Video editing and graphic designing.



S.I.M. Ifthikar
BSc Engineering Pdn (UG)
Dept. Chemical & Process
Engineering

- Chemical Process analysis
- Narration



R.M.S.M. Gunathilaka
BSc Engineering Pdn (UG)
Dept. Computer
Engineering

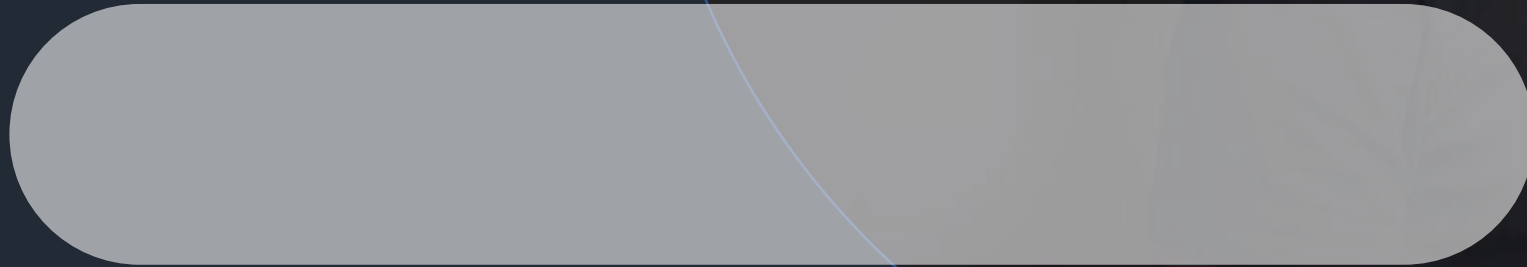
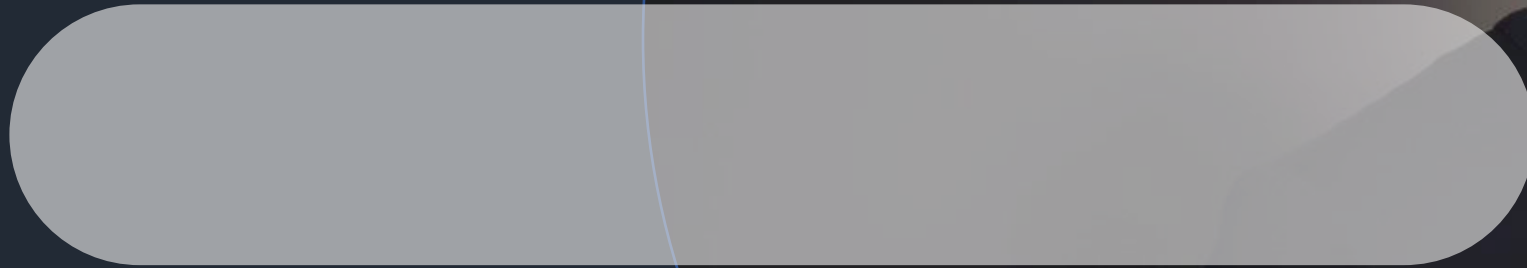
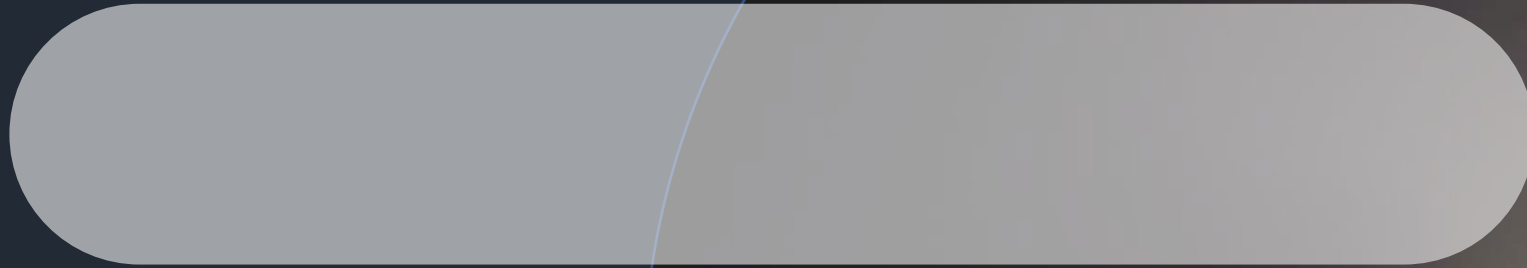
- Database Management
- App Development



K.S.D. Perera
BSc Engineering Pdn (UG)
Dept. Computer
Engineering

- Database Management
- Designing algorithm to control the system.

Idea Testimonials



Financial

We are looking for 12 months financing to reach 10,000 Domestic Biogas Plants.

We are looking for 12 months financing to reach 10,000 transactions

