

# KENDARI CITY'S EFFORT TO TRANSFORM WASTE INTO METHANE GAS AND OTHER USEFUL GOODS



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# Starting Point

## Problem

Total Population  
321.628 people



270 tons of  
waste/day

**Affect**

People in  
Kendari City :

- Men
- Women
- Children
- Vulnerable  
People

**Done by**

## Solution

### Waste Management System

To transform  
waste into :

- Added value  
goods
- Methane gas  
for electricity



# Institutional Setting

## Metan Gas Policy

- 1) Mayor regulation no.4, 2015 regarding Waste management
- 2) Mayor regulation No. 85, 2018 regarding household rubbish

Instrument

Network installation scheme

Policy

**Methane Gas**

Legal Regulation

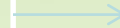
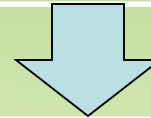
Involvement of stakeholders :  
- Society  
- Government

Procedures of methane gas utilization



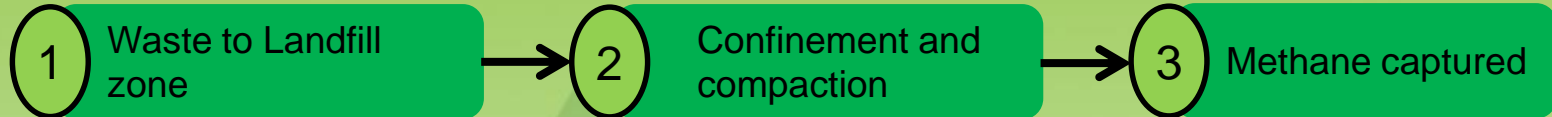
RUBBISH COLLECTED  
AT PUUWATU LANDFILL

# THE PROCCESS CAPTURING METAN GAZ

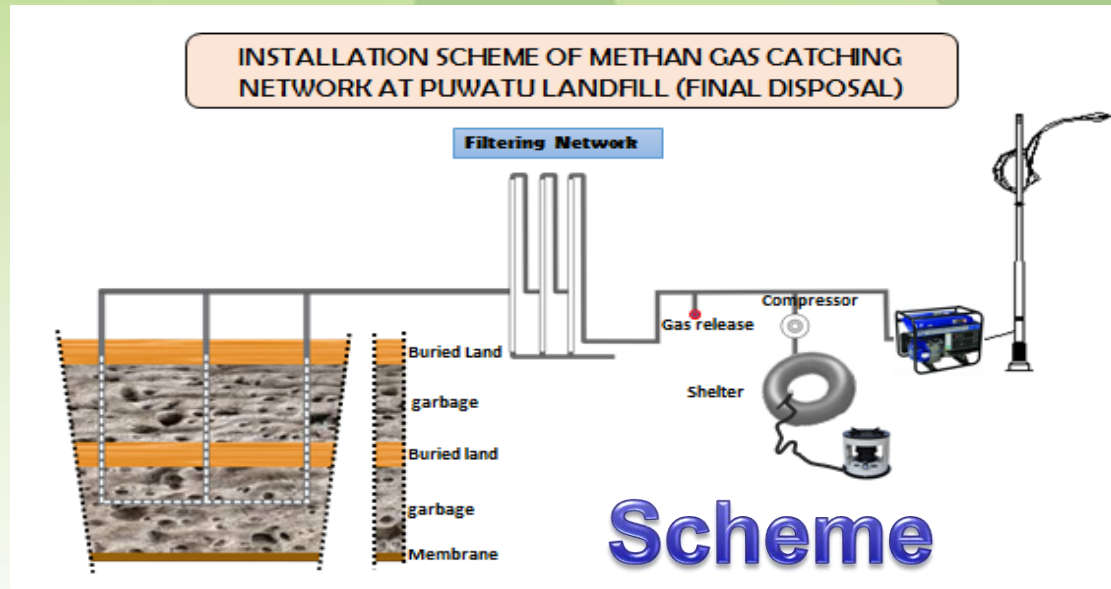


# Approach

All elements in the society will be involved in the process



Process





# THE USE OF METAN GAS



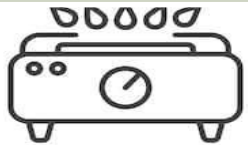
# OUTPUTS



Electricity lighting in the area of final disposal site



Electric lighting for 200 homes at Kampung Mandiri Energi (Energy Independent Village)



Methane gas stoves for 150 homes at Kampung Mandiri Energi (Energy Independent Village)



Car fuel

Dedication

Collaboration / Transparency

Service to Community

Sustainability / Integrity





Independent village of electricity.  
 Number of Families : 200  
 Number of People : 620  
 Electricity Capacity : 32.000 Watt  
 Power Used :  $\pm$  18.000 watt





# SOME STUDENTS OF SCHOOLS AND UNIVERSITIES DOING THEIR RESEARCH AT THE RUBBISH SHELTER



**THANK YOU**

