

Indonesia Domestic Biogas Programme: **Story of Financing** Renewable Energy **Project** at Community Level

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Give People Power

### **About IDBP**





**▶** Goal

Stimulate grassroot communities in accessing domestic biogas through market approach and circular economy model.

**28.864** digesters are built acress 19 provinces in Indonesia.

**▶** Impacts

Cost saving of LPG/Firewood purchases IDR 65.000/month\*



Additional income around IDR 400.000/month\* from bio-slurry selling

Emission reduction 3.3 tons CO2e/year/unit



Total Carbon Emission Reduction in IDBP Program: 464,562 tCO2\*\*

SDGs Contribution





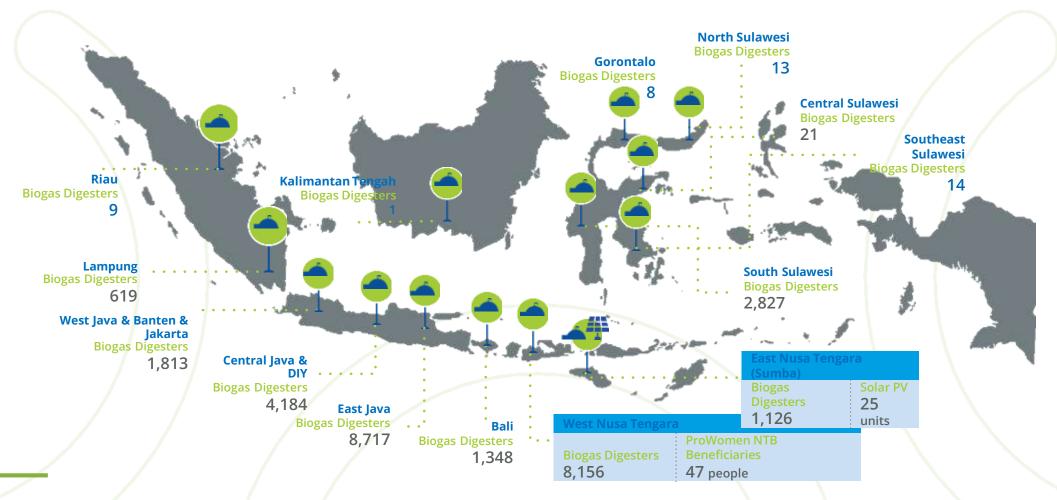












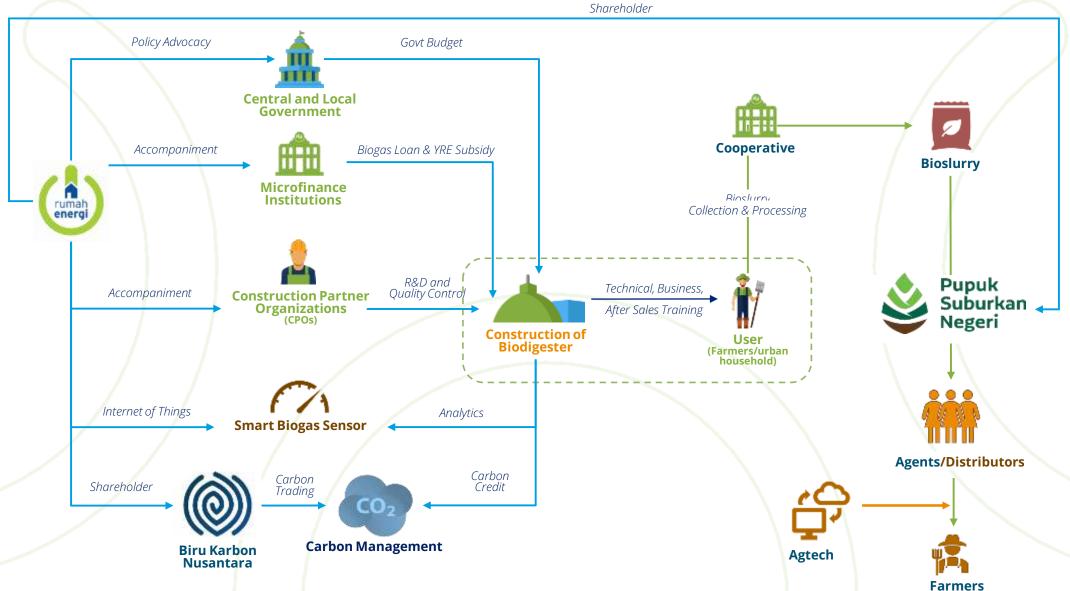
Legend:





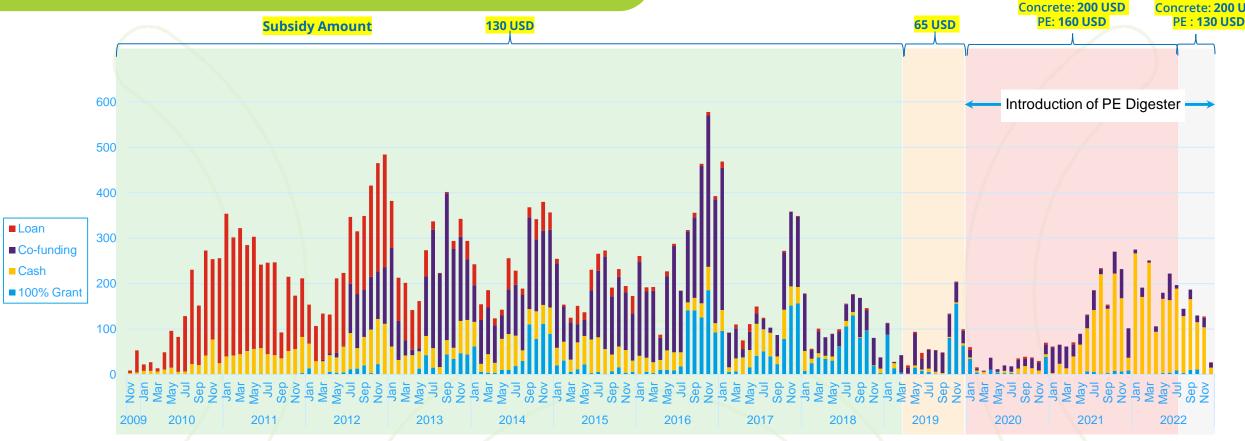
### **Financing Scheme**





### **Financing Scheme Over Time**



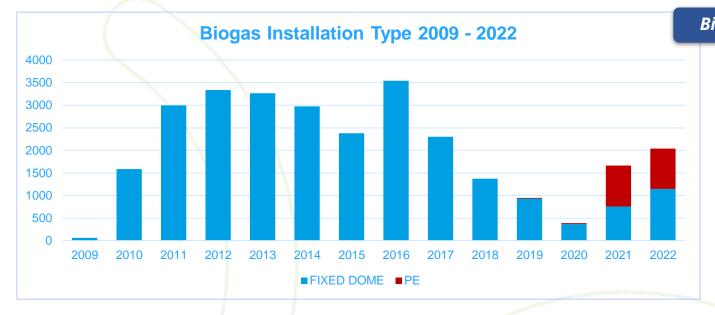


Source: IDBP Database BIRU per Dec 2022

- IDBP were supported by several Donors (i.e.: EnDev, Royal Netherlands Embassy, Royal Norwegian Embassy, and Millennium Challenge Account Indonesia (MCAI) from 2009 to 2021.
- IDBP entered the Voluntary Carbon Market (VCM) after being registered under the Gold Standard Project of Activity (PoA) in 2013. Hence subsidy for biogas installation were then combined with funds from carbon ever since.
- Since <u>February 2021</u>, subsidy for biogas installation has been coming **only from carbon fund**. Nevertheless, the number of biogas installation with **financing scheme through cash** (users' out of pocket) **has become the majority** in comparison to grants and cofunding over this time.

### **Financing Scheme**



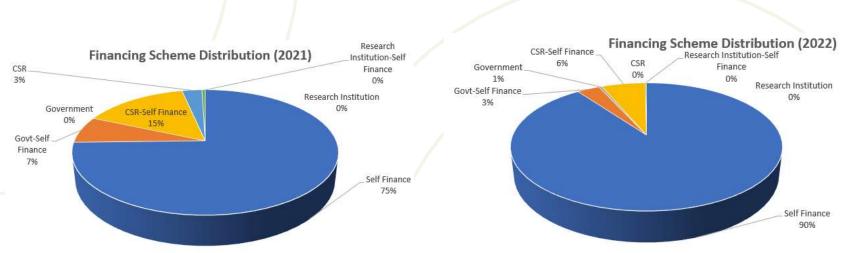


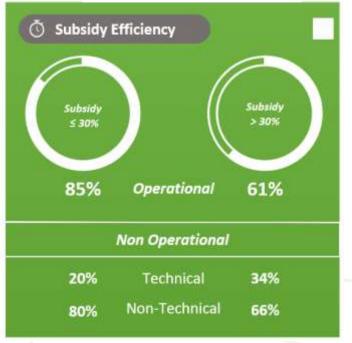
#### BioMiru (Polyethylene/PE)



### Fixed Dome (Concrete)







## Challenges & Barriers











## RE technologies are expensive

Concrete digester cost: US\$800-1100

Material costs increase rate: 6.87% yoy (BPS, 2022)

### Seasonal Farmers Income

High default risks from seasonal income of cattle/dairy farmers;

# Lack of Awareness from Microfinance Institutions

Lack of knowledge on climate change, energy transition, green financing, technical aspects of renewable energy technologies

# Lack of Supporting Policy

Comprehensive policy
for green financing (not
limited
to power plant or EV)
down to MFI; Tax incentives
for MFIs which provides
green financing

## **Opportunities**











Correct Model
Provides
Multiplier
Benefits

e.g., Biogas to milk and agriculture value chain Increasing
Interest
to Renewable
Energy

Energy
Increasing interest from the market to renewable sources:

Partnership with multinational companies which committed to net-zero by 2050.

## Cooperatives as MFI Partner

Strong ties between cooperatives and members reduce default risks

## Increasing Global Trends to Green Financing

Global green finance market has grown from \$5.2 billion in 2012, to more than \$540 billion by 2021. (TheCityUK, 2022)





### What to do

Recommendations to Policy Makers, Investors, and Stakeholders

- Connect
- Climate and energy transition urgency mainstreaming to MFI (banks, cooperatives, etc.)
- Incentivizes technological and business model innovation creation to reduce renewable energy costs
- Establish comprehensive policy

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