



# Maximising Socio Economic Benefits in Off-grid RE

## Case Study: Sumba Island

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- Remote outer island, high costs for fossil fuels
- Low density population of 650,000
- Low access to electricity: 24.5% in 2010
- Wide variety of potential renewable energy sources: wind, solar, hydro, biogas and biomass
- High poverty rate: average incomes are  $\frac{1}{4}$  of national average
- Patriarcal tradition

# “100% renewable goal”

Our approach:

- Multi-stakeholder collaboration
- Holistic, long-term energy development
- Combined energy access and development
- Inclusive, bottom-up planning
- All technologies, all financial models
- Joint vision and ambition, not a fixed plan

*A groundbreaking,  
globally replicable  
initiative to  
provide energy to  
people and  
businesses.*





# Hivos Work in Rural Energy

- Focusing on development of DRE access with financial model
- Collaborate with local entrepreneurs, government and CSOs
- Strengthening local institutions and inclusive coaching to small businesses
- Upward feedback to stakeholders



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# Yofi Mayu Energy Kiosk



- Owner Margaretha Katoda and Nicolaus Da'ó
- Capital to extend kiosk business (10% increase of profit per week)
- Start to do saving and invest in asset (better bookkeeping, paying debt)
- Sharing household workloads



# Agro Agent Balli Loku

- Mariana Riddy and Umbu Lakinuga
- Up to IDR 2m/month of additional income from agro-processing and paygo
- Business expansion: Pay-it-forward pig raising business, chicken slaughter





# Biogas Business

- Clean cooking
- Better yields, organic products
- New currency; bioslurry
- Breeding; Black Shrimp and Fish Tiger (Bp Hassanudin, S. Sulawesi)



si Bio-slurry untuk



# Social Relations

- Support economic and education related activities
- Social relations improved (small saving loan group)
- Reduce cost during social traditional events





# Shared-Ship

- Family Tree
- Vision Tree
- Men helps with the house chores
- For decision making and ownership of assets, the couple reached the decision through mutual agreements:
  - The profit saved for capital to expand business
  - Discussed which school the children would go



# Supply DRE - Sustainability

A photograph showing several construction workers in a deep, circular trench. They are building a structure using red bricks and concrete. The workers are wearing hard hats and casual work clothes. The trench is supported by wooden poles and ropes. The ground is dark and appears to be soil or mud. The workers are focused on their tasks, with some using tools like shovels and buckets.

- 40 local construction partners and trained 1,000 certified masons
- Local appliances producers (R&D)
- Micro finance products
- 81 entrepreneurs in start-up businesses involve bio-slurry





# KURSUS INSTALASI LISTRIK SUMBA



## Local Sustainability and Employment

- Started in 2016. 129 graduates
- 2 months program; electrical and solar PV
- Local employment; PLN, RESCO, Hospital, Electricity Shop
- Academy



LKP ANUGERAH ANAK SUMBA  
*'Belajar dengan hati'*

Diselenggarakan oleh:

Life Is On

Schneider  
Electric



# Local Sustainability and Employment - RESCO

- Basic support for off-grid sustainability
- Fill in the gap of OM, after sales service, repair and collection issues
- Performing as service utility partners
- Will becoming sustainable by partnering with more projects/businesses







# Integrated Linkages

A photograph of a village square with several buildings featuring tall, conical thatched roofs. In the foreground, there are several large, rectangular stone tables. A white dog is lying on one of the tables. The sky is blue with scattered white clouds. The overall scene suggests a traditional, rural setting.

- Not only access to energy – the enabler
- Stimulating (increase) demand and p. sector investment
- Local resources, local business model, access to market and finance services
- Gender is not all about women!
- Community development is as expensive as quality technology