Maximising Socio Economic Benefits in Off-grid RE
Case Study: Sumba Island

Sandra Winarsa, Program Development Manager
- 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 ¼ of national average
- Pathriarcal 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
Owner Margaretha Katoda and Nicolaus Da’o

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
- Breading; Black Shrimp and Fish Tiger (Bp Hassanudin, S. Sulawesi)
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

- 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
Local Sustainability and Employment

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

• 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