

School Renewable Energy Application to Improve Education in Sumba

Business Models and Job Creation from Renewable Power Deployment



Dedy Haning,
Project Coordinator
Sumba Iconic Island
Hivos Southeast Asia

Multi-actor approach in Sumba



local civil society
multilaterals

Government
the private sector
www.sumbaiconicisland.or

INGOs
international donors

Off-grid Challenges

- Historical situation as typically projects are funded through grants
- The absence of business model
- Lack of operation and maintenance
- Lack of community management system / organisation
- Absence of service utility like PLN (state owned electricity company) functioning on off-grid



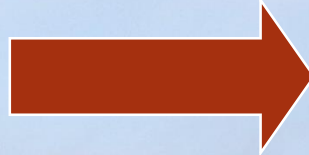
How the project evolved over time

- 80% of total 750 elementary schools in Sumba lacks access to electricity



Provide electricity at schools

- Students have no access to electricity at home



Solar home system requires higher investment. Therefore, the solution is to install charging station at schools

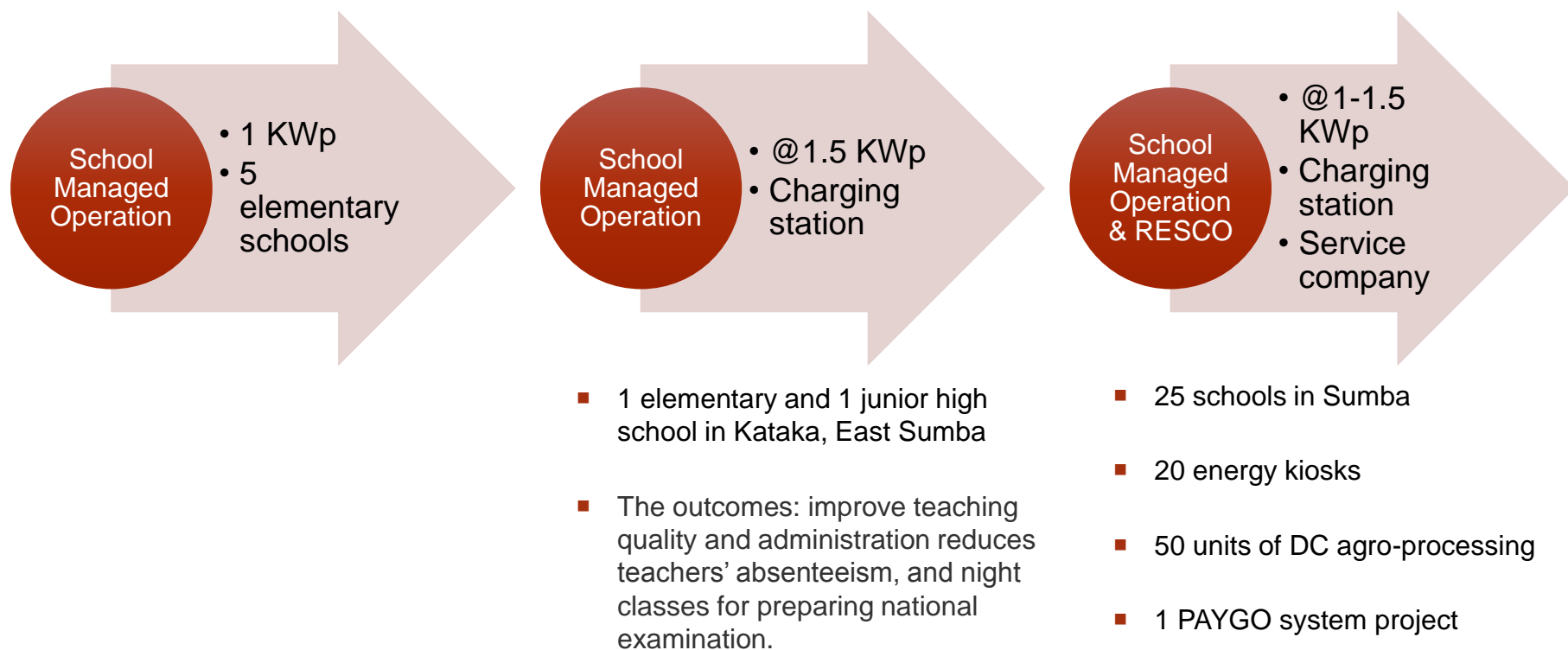
- How to sustain service?



Establish local renewable service company (RESCO) and establish a business model on place



Business Model Evolution



Moving from generating productivity/ additional income into job creation



RESCO

- Six skilled technicians, Locally recruited and trained on solar PV
- Developed as social enterprise focusing on rural electrification solutions partner
- Provide services for solar PV installation, operation and maintenance, technical and social surveys and after sales service
- Fill in the gap of O&M, after sales service, repair and collection issues
- As model for replication in other similar situations



RESCO – The Purpose

- Equipped with an online management system (clients/user management, accounting system, equipment inventory, complaints) and android app for monitoring and collection purposes; and community development skills
- Standard operating guidelines
- Managing off-grid projects of Hivos and will become sustainable by partnering with more projects/businesses



Future plans and opportunities

- Pay-go-system and metering system
- Collaboration with research centers to benefit innovation approaches
- Work closely with technology providers for R&D purposes to ensure quality and innovative products
- Energy project opportunities with the present of village fund in Indonesia
- Invite investors who are interested in decentralised system



Thank you

E: ghaning@hivos.org

W: www.sumbaiconicisland.org

