Asia Clean Energy Forum 2018 Deep Dive Workshop

Developing Sustainable Mini-grids

Jeffery Dickinson

5 June 2018





Background

■ USA based private engineering and program management firm with over 70 years of global experience innovating solutions to improve infrastructure in the water, waste and energy sectors

- Company and Staff have extensive experience with mini-grids
 - Indonesia, USA, Nepal & Cambodia
 - Feasibility, Design/Engineering, Bus/Fin Packaging & Oversight
 - RE based generation, Main grid integration & "Smart/Hardened"

Indonesia Projects: Millennium Challenge Corporation

Company	Location	Technology	Customers
PT Long Beliu Tau Energi PT Sinang Puri Energi PT Teluk Sumbang Energi	East Kalimantan	PV/Battery 1,273 kWp	478 households
PT Mikro Kisi Sumba	East Nusa Tenggara	PV/Battery 492 kWp	856 households
PT Karampuang Multi Daya	West Sulawesi	PV/Battery 598 kWp	784 households
PT Puriver Sejahtera Indonesia	East Sulawesi	PV w/ grid 804 kWp	1,097 households
PT Kemakmuran Mentawai Hijau	West Sumatra	Biomass Gasifier 700 kW	1,239 households

Using Private Sector Practices to Create Public Purpose Entities

Partnership among private companies, enabled communities and interested government agencies can provide the foundation for a sustainable enterprise

- Project developers bring knowhow (generation/distribution/O&M) often lacking in small communities and government agencies
 - Equipment manufacturers, Engineering, System integrators
- Private sector companies typically have higher thresholds for governance and reporting requirements
 - Government mandated reporting, Legally binding governance practices
- Private sector companies can more easily access traditional financing
 - Banks, Commercial partners, DFIs

Opportunities and Challenges on the Horizon

- Public Private Partnerships can play important roles in relatively small distributed projects
 - Not just money; planning, engineering and service collaborations
 - Creating pipelines of viable projects
- Ground level practice needs to align private sector commercial realities along side high level Government policy
 - Mis-alignment can create road blocks at the ground level
- Insistence upon international engineering standards and suitable material and equipment will improve project sustainability and operational cost over the long run

Thank You for Attending Today's Event

Additional Information Available Upon Request

CDM SMITH - WWW.CDMSMITH.COM

Jeffery Dickinson – Lead Renewable Energy Specialist

Email: Dickinsonja@CDMSmith.com

Mobile: +62 812 9078 1079 (plus WA), +1 603 630 2473