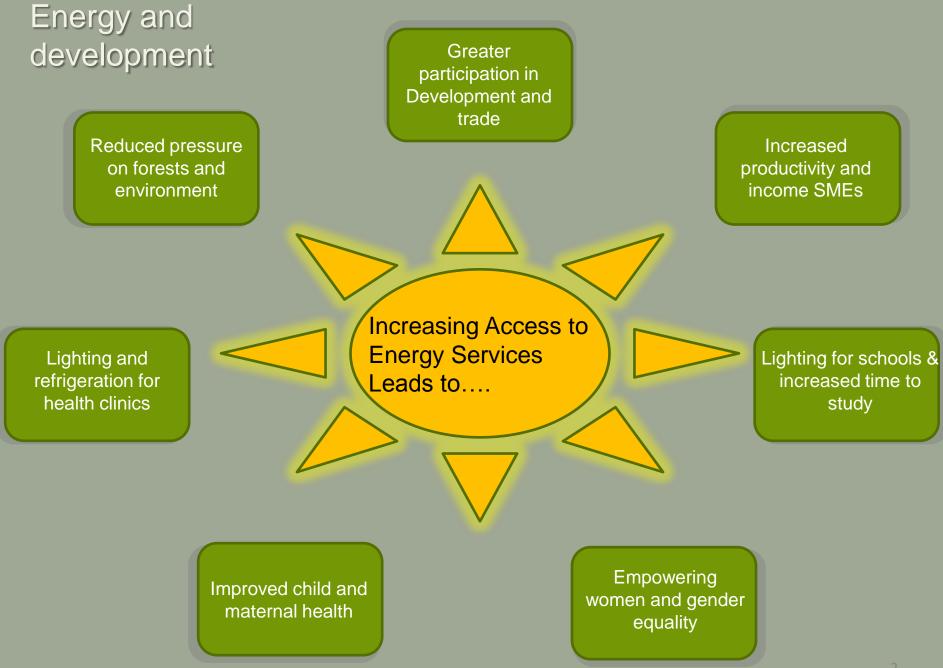
Ellen

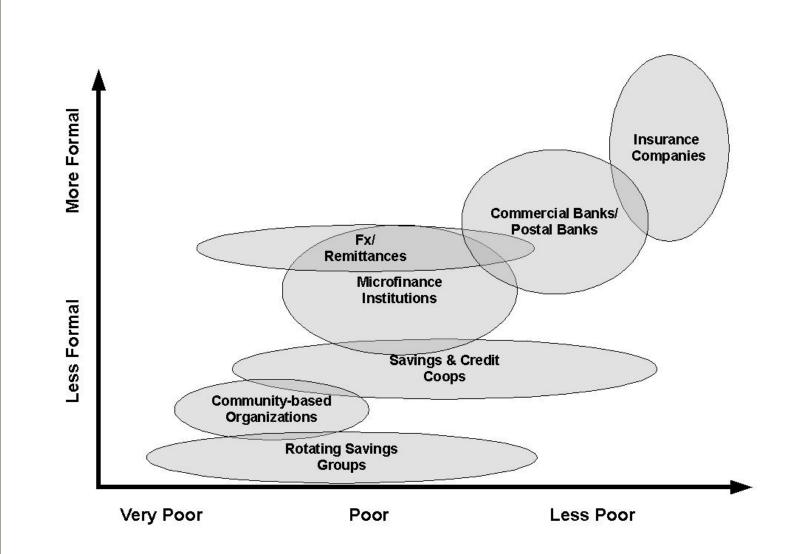


Service	Energy System	Benefits		
Electricity	 Solar lanterns Solar lighting systems for businesses and homes Battery charging 	 Cleaner, brighter light for work, study and recreation Safer- fewer burns, less breathing/vision problems Reduced dependency on unreliable grid Increased income opportunities 		
Heat for cooking	 Biogas systems Liquefied Petroleum Gas stoves Efficient wood/ charcoal cook stoves 	 Cleaner and more efficient Safer- fewer burns, less breathing/vision problems Job creation in manufacture, sales and distribution 		
Mechanical Power	 Multifunctional platform Water pumps 	 Women's drudgery reduced Higher quality product and higher prices Job creation for operation and maintenance Creates options for non- electrified villages 		

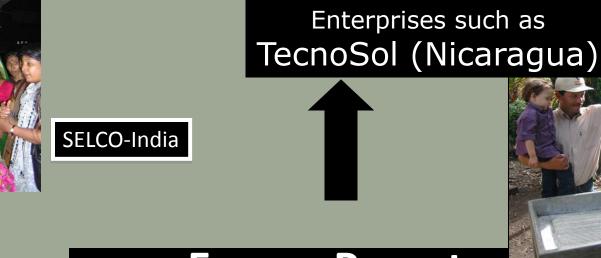
Access to finance needs across the value-chain

Manufacturers	 Initial capital for both R&D and the fixed assets for a production facility Working capital to purchase inputs and produce finished goods 				
Wholesalers/ retailers	 Typically offered little credit from international manufacturers Face disproportionately high inventory levels due to poor demand predictions in early years of operations Working capital challenges in light of long transport times and customs clearing Often required to extend credit to dealers in order to stimulate sales. 				
Last-mile dealers	 Often stuck between MFI and Commercial bank value propositions with no natural provider of capital Squeezed on working capital, as they are usually small rural/periurban operations Often unable to provide credit their customers need 				
Customers	 Affordability is the leading barrier – low-income households typically cannot afford to pay a lump sum of \$10 or more Credit schemes difficult to design due to small ticket size of the purchase and lack of familiarity by MFIs with lighting products 				

Financial institutions serving the poor

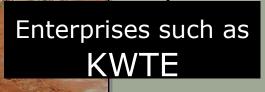


Phil



Energy Poverty Opportunity Energy Waste





SME-RE Cambodia





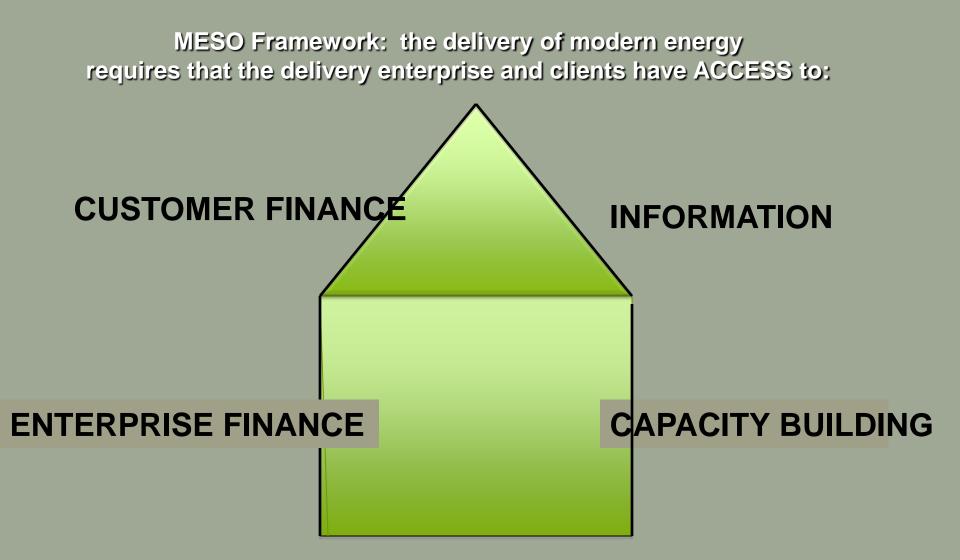




Macro – Country-Region Framework

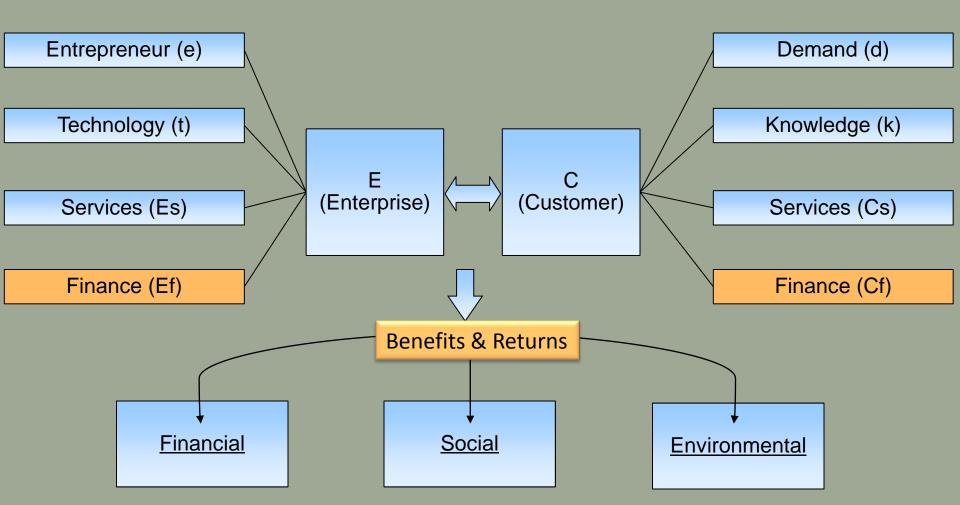
Policy & Human & Regulation Institutional Capacity MARKET SIZE AND **ATTRACTIVENESS** Business

Environment



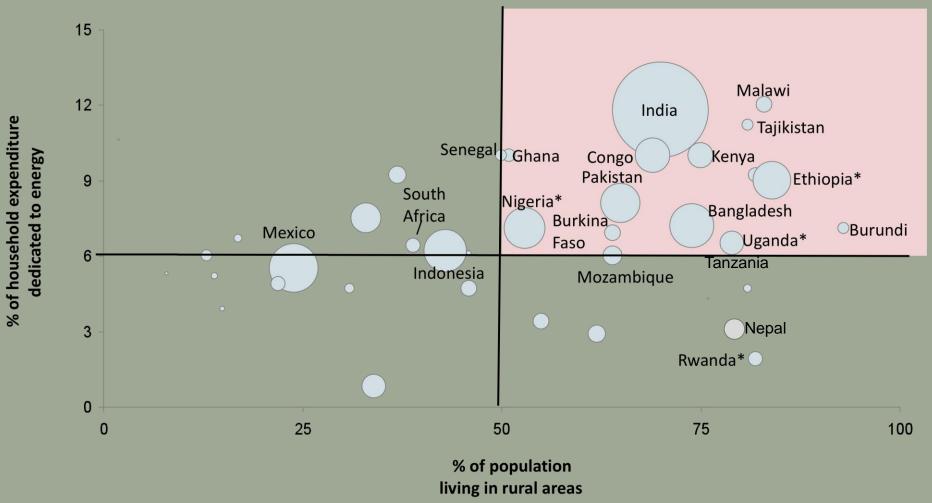
APPROPRIATE, AFFORDABLE PRODUCTS

The Enterprise-Customer Connection: Eight Critical Factors for Success



Ellen

What are people paying for energy?



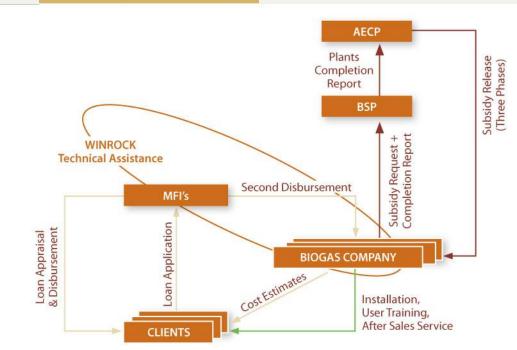
Note: Bubble size equals number of un-electrified

Source: World Resources Institute & The Bottom Four Billion

What is end-user finance?



Biogas Programme in Nepal



Tailoring Financial Services to the Needs of Poor Customers

Asset Building, Risk Mitigating Products

- Voluntary savings
- Health and life
 insurance

Service

- Rapid, convenient access
- Respect, connection

Flexible Loans

- Small initial loan sizes
- Larger loans over time
- Longer terms

Variety of Products

- Housing loans
- Education loans
- Life cycle products
- Business development services
- Quality of life enhancing products (e.g. energy and H₂O)

What Customers Want

No Traditional Collateral Group → Individual Loans

Harish



Access to Credit: Innovative Financing





















Phil

Financial	Social & Economic			Environmental	
Investment Funds Disbursed	People with Access to Modern Energy Services	Households served		CO2 Offsets by Enterprises/tonnes	CO2 Offset for Life of Investment
\$14.7 million	3,607,599	721,000		2,201,780	13.3 million tonnes
Entrepreneurs Investment	Cumulative Clean Energy Generated	Energy saved from Efficiency initiatives/		Value of CO2 Offsets for Life of Project	Reforested Land/ Hectares and Number of Trees
\$29.1 million	59,539 GWh	118 GWh		\$65.6 million	220 thousand trees, 228 hectares
3 rd Party Capital	Jobs Supported	Improved Income		Clean Water Provided/liters	People with Clean Water
\$113.8 million	2,965	\$7.4 million		140 million	29,825
Capital Mobilized	Clean Energy Enterprises	Women Ownership/ Shareholding		Charcoal Displaced/tons	Firewood Displaced/tons
\$157.6 million	138	90		257, 506	207,984
Portfolio Return after Write-offs (Before 1X Costs)	Clean Energy Employees & Customers trained	Customers Installing Efficiency Equipment		LPG Displaced/kg	Kerosene Displaced/liters
8.3%	73,960	29,545		2,379,000	6,045,546
OPM Ratio	Entrepreneurs Identified	Entrepreneurs receiving Services		Barrels of Oil Displaced	
1 : 9.7	1,574	857		259,743	'98 thru '06