Clean Energy Education & Empowerment (C3E) Knowledge Building on Women in Clean Energy

Mainstreaming Gender into FAO's Work on Energy

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FAO Energy - Gender evaluation methodologies and data at the international level

- A. Investing in Sustainable Energy Technologies for the Agrifood Sector (INVESTA) Gender Sensitive Value Chain Analysis and Mapping Guidelines
- B. Safe Access to Fuel and Energy (SAFE) approach for crisis-affected population
- C. Global Bioenergy Partnership (GBEP) indicators

A. Gender-sensitive approach in the INVESTA project

- Investing in Sustainable Energy Technologies for the Agrifood Sector (INVESTA): Cost-benefit analysis methodology tailored at energy interventions in agrifood value chains
- Gender-sensitive value chain analysis to:
- 1. identify underlying gender issues in the value chain
- 2. measure the **impact of introducing clean energy** solutions into the agrifood value chain



A. INVESTA Methodology (1)

Dimensions of women's economic empowerment:

 Access to productive resources, including assets, agricultural services and financial services



Power and agency concerns capabilities, selfconfidence and decision-making power

Mapping Analysis Barriers Lessons Policy Response

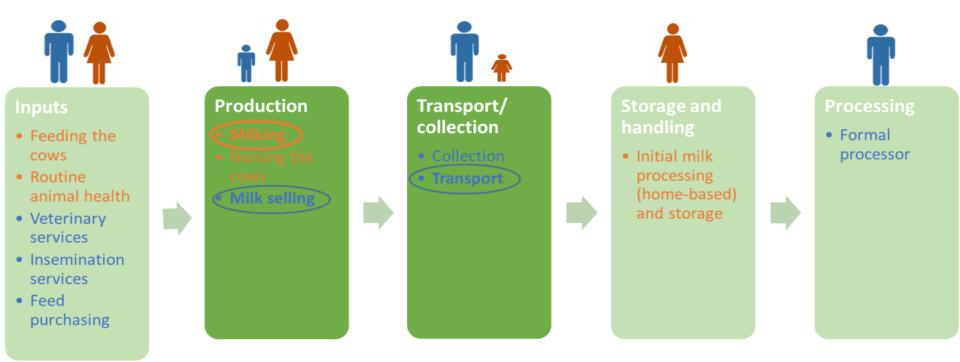


A. INVESTA Methodology (2)

- Guiding questions:
- 1. Role of women and men in households, farming and VCs (typical roles and activities of men and women in HH and VC; access to asset and services; income generation and control; participation; power and agency)
- 2. Impact of clean energy interventions in a VC on women and men (changes in roles and activities; access to energy; exposure to air pollution; income; time saving; job opportunities).
- Several social indicators in the cost-benefit analysis (CBA)
 measured using gender-disaggregated data whenever possible:
 health risks due to indoor air pollution, access to energy,
 household income, time saving and employment.



A. EXAMPLE: Gender-sensitive mapping and analysis of **Biogas domestic milk chiller and cookstove**





C. Barriers and policy recommendations

for gender equality and women's empowerment when promoting investments in clean energy technologies in agrifood

BARRIERS		POLICY RECOMMENDATIONS			
•	Lack of country-level information for gender analysis	•	Facilitate collection of sex-disaggregated data		
•	Technologies can be unresponsive to women's needs Inequitable access to information	•	Mainstream gender considerations throughout innovation cycle and marketing		
•	High investment costs for women-headed households and women in male-headed households	•	Improve women's secure access to land Support financial and business literacy Develop gender responsive financial services		
•	Inequitable access to cooperatives between men and women	•	Facilitate gender equitable and single-sex cooperatives		
•	Shortage of managers and skilled technicians in rural areas. Those available are often men.	•	Build the capacity of men and women to hold these roles. Promote girls and boys education in STEM fields Develop support services and supply chains that are accessible, affordable and operated by men and women		

B. Safe Access to Fuel and Energy (SAFE) approach for crisis-affected population

- The FAO SAFE approach provides a multi-sectoral response to challenges and contributes to resilience building in protracted crises
- The FAO SAFE framework is a guidance document for FAO officers developing, implementing or monitoring resilience programs with a SAFE component
- It includes six performance and impact indicators for monitoring gender-related aspects of SAFE interventions



B. Gender role and energy access

- 3 billion persons still primarily rely on traditional biomass for cooking
- The burden of collecting fuelwood and preparing meals for the family is primarily shouldered by women and children



- productive time lost
- exposure to protection risks
- health risks (4M premature deaths)







B. Time spend for wood collection

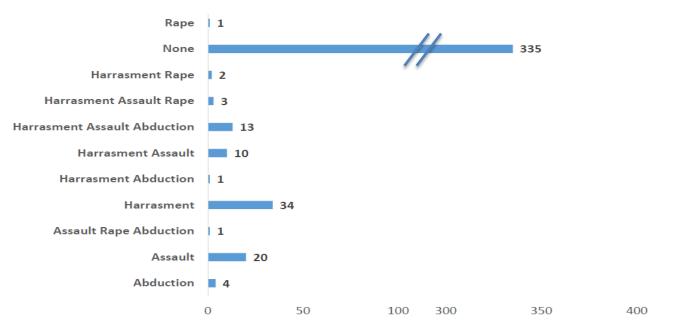
- In Bidi-bidi camp (Uganda), "Women collect fuelwood almost every day; taking 2-3 hours"
- In Cox's Bazaar district (Bangladesh) women and children collect wood every day during 4.47 hours in average. The average distance observed is 8.75 km
- Around the city of Goré (Chad) women collect woodfuel three times a week for six to seven hours
- In average, 14 to 30 hours per week for woodfuel collection.







B. Exposure to protection risks



SAFE Rapid
 assessment - IDP
 sites in
 Maiduguri city
 (Nigeria)

Threat Status/ Caused by	НН	Verbal abuse	Social abuse	Physical	Psychological .	Sexual	Confiscation	Arrest
				assault	abuse	assault	of wood fuel	
No Threat	230							
Police/BGB	1							
Bandits or opportunists	4							
Host Community	34							
Ongoing Conflict	15							
Elephant Attack	з							
Forest Depart.	19							

SAFE assessment in Cox's Bazar (Bangladesh)



B. Gender indicators for SAFE

Average # of trips made and

average # of hours spent per

Average # of km travelled per

week on woodfuel collection

week to collect woodfuel

% of HH who believe

reduce emission of smoke

targeted HH per week

% of individuals

secure at night

% of portable lights distributed

who

Source (itchen

Total # of trips made OR total # Beneficiary

Total # of km travelled to collect | Beneficiary

woodfuel by targeted HH / Total survey

FES % of HH self-reporting to Beneficiary observe reduced smoke after survey

% of HH receiving portable lights IP survey

week / Total # of targeted HH

% of HH self-reporting to feel

spent

woodfuel by targeted HH per

week / Total # of targeted HH

of targeted HH

using FES

to lack of cooking fuel by skipped by targeted HH per survey

Average # of meals skipped due Total self-reported # of meals Beneficiary

who received a FES

secure at night

collecting survey

Performance Test (KPT)

Beneficiary

survey

D. C	CHACI	marcator	JIOI JAIL	
Expected Results	Indicator	Sub-indicator	Formula	S
Reduced fuel use as proxy	Fuel use	Average # of kg (solid fuel, LPG,	Total # of kg or litres of fuel used	Ki
for change in level of		gas) or litres (liquid fuel) of fuel	for cooking by targeted HH per	P
exposure to GBV during		used for cooking per targeted	day / Total # of targeted HH	Τe
woodfuel collection		HH per day		

Increased saving in HH time Frequency and time

spent collecting wood as spent on woodfuel

during

Distance travelled

indoor air pollution

Skipping of meals

of Distribution of

lighting

portable lights

and Perception of safety

and security due to

for woodfuel

collection

proxy for change in level of collection

Reduced indoor air pollution Perception of

exposure to GBV

Reduced skipping of meals

Increased

Increased

portable lights

distribution

security

protection due to lighting

woodfuel collection

C. Global Bioenergy Partnership (GBEP) indicators

- The GBEP indicators require, whenever possible, the compilation and use of sex-disaggregated data, in order to shed light on the possible gender-differentiated impacts of modern bioenergy development
- Two of the **GBEP social indicators** are relevant from a gender perspective and reflect traditional gender-differentiated roles:
 - Indicator 13: Change in unpaid time spent by women and children collecting biomass
 - Indicator 15: Change in mortality and burden of disease attributable to indoor smoke



For more information:

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