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Sections: 8, Sub-sections: 0, Questions: 98. Questions with enabling conditions: 48 Questions with validation conditions:8 Rosters: 3

Variables: 0

EfD Dar es Salaam Energy Enterprise Survey 2020

SURVEY IDENTIFICATION INFORMATION QUESTIONNAIRE DESCRIPTION

QUESTIONNAIRE IDENTIFIERS

No sub-sections, No rosters, Questions: 10, Static texts: 1.

GENERAL ENTERPRISE INFORMATION

No sub-sections, No rosters, Questions: 35.

LPG CANNISTERS

No sub-sections, Rosters: 1, Questions: 15.

CHARCOAL

No sub-sections, Rosters: 1, Questions: 16.

BIOETHANOL AND KEROSENE

No sub-sections, No rosters, Questions: 8.

ELECTRICITY

No sub-sections, No rosters, Questions: 1.

STOVES

No sub-sections, Rosters: 1, Questions: 8.

FIREWOOD PRICES

No sub-sections, No rosters, Questions: 5.

APPENDIX A — CATEGORIES LEGEND

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# *SURVEY IDENTIFICATION INFORMATION* QUESTIONNAIRE DESCRIPTION

### Basic information

*Title Subtitle*

*Version identificator*

EfD Dar es Salaam Energy Enterprise Survey 2020 Survey of energy enterprises in Dar es Salaam.

V1\_21\_01\_2020

### Survey data information

*Study type Kind of data*

*Mode of Data Collection*

Enterprise Survey Observation data/ratings [obs] Face-to-Face

### Survey information

*Country*

*Year Languages Unit of analysis*

*Universe Primary Investigator*

*Consultants*

*Funding*

Tanzania 2020

English, Swahili Enterprise

Dar es Salaam

Gunnar Kohlin, Remidius Ruhinduka

Leonard le Roux, Ipsita Das, Martin Chegere, Marc Jeuland, Byela Tibesigwa Swedish International Development Cooperation Agency

### Additional info

*Keywords* electricity, charcoal, energy, development, lpg

## QUESTIONNAIRE IDENTIFIERS

questionnaire\_identifiers



|  |  |
| --- | --- |
| Enumerator name | SINGLE-SELECT enumeratorSCOPE: IDENTIFYING1. Kevin
2. Oscar
3. Sam/Other
 |
| District | SINGLE-SELECT districtSCOPE: IDENTIFYING1. Kinondoni
2. Ilala
3. Temeke
 |
| Ward name | TEXT wardSCOPE: IDENTIFYING |

STATIC TEXT


##### *INTRODUCTION Supervisor/enumerator, please read and ask for informed consent: Greetings! My name is*

 *, and I am working for University of Dar es Salaam and Environment for Development in Sweden. We are collaborating with the World Bank for this study. You are being asked to participate in a survey to support a research study on clean cooking energy use in Dar es Salaam. We want to knowsome things about your enterprise – specifically about (1) cooking stoves and fuel sold; (2) main business challenges; (3) some enterprise characteristics. Interviews will be conducted with approximately 200 enterprises drawn from different neighborhoods in Dar es Salaam. Your enterprise has been selected to participate. If you decide to participate in this study, you will complete a 30-minute interviewwith a trained interviewer. Your participation in the study is completely voluntary. You may choose not to answer any question and you can stop your participation at any time. All information you provide will be kept confidential, that is, your name or other identification will not be associated with your answers to the questions. There is no direct, immediate, and tangible benefit of participating in this survey. However, in the long run many communities including yours can benefit from advances in energy programs to improve human health and well-being, air quality and climate. If you have any questions or concerns about our study, please contact Dr Ruhinduka (Give Mobile Number) or Dr Tibesigwa (Give Mobile Number).*

|  |  |
| --- | --- |
| Are you willing to participate in this survey? | SINGLE-SELECT consent1. No
2. Yes
 |
| Street name | TEXT street\_name |
| Street number | NUMERIC: INTEGER street\_number |
| Enterprise nameIf the enterprise has no name, enter: na | TEXT enterprise\_name |
| Enterprise contact number | NUMERIC: INTEGER enterprise\_numberSPECIAL VALUES-88 Refuse |

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## GENERAL ENTERPRISE INFORMATION

enterprise\_information

Enterprise GIS location

GPS

enterprise\_gis

N

W A

Interview start time

DATE: CURRENT TIME

interview\_time

V1 M1

|  |  |
| --- | --- |
| In what year did this establishment start operating?self>1940 & self<2021The year entered does not seem correct, please check. | NUMERIC: INTEGER year\_operating |
| In what year did this establishment start operating at its current location?self>1920 & self<2021This year does not seem correct, please check. | NUMERIC: INTEGER year\_atlocation |
| Is this establishment part of a larger firm?(larger firms include several distinct locations or establishments, includi ng branch offices or production, distribution, or sales sites) | SINGLE-SELECT partof\_largerfirm00  No01  Yes |
| How many establishments are part of the larger firm?partof\_largerfirm==1 | NUMERIC: INTEGER howmany\_largerfirm |
| What is this establishments current legal status? | SINGLE-SELECT legal\_status01  Part of a shareholding company with shares trade in the stock market02  Part of a shareholding company with non-traded shares or shares traded privately1. Sole proprietorship
2. Partnership
3. Limited partnership
4. Informal firm
5. Non-profit company
6. State owned enterprise
 |
| Is this enterprise registered for Value Added Tax? | SINGLE-SELECT vat\_registered1. No
2. Yes
 |
| How many owners (shareholders) are there in this firm? | NUMERIC: INTEGER howmany\_ownersSPECIAL VALUES-99 Don't know |

V1 M1

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|  |  |
| --- | --- |
| What percentage of this firm does the largest owner or owners own?howmany\_owners!=1 | NUMERIC: INTEGER percentage\_largestowner |
| Among the owners of the firm, are there any females? | SINGLE-SELECT female\_owners1. No
2. Yes
 |
| What percentage of the firm is owned by females?female\_owners==1 self<=100 && self>0Percentage cannot be more than 100 or less than 0 | NUMERIC: INTEGER percentage\_femaleowners |
| What is the main operation of this enterprise? | SINGLE-SELECT main\_operation1. Retail
2. Wholesale
3. Distribution (transportation)
4. Repair
 |
| In the last year, what was the main product sold by this establishment? (largest proportion of sales) | SINGLE-SELECT main\_product1. Charcoal
2. LPG fuel bottles
3. Kerosene
4. Electricity
5. (Bio)ethanol
6. Charcoal stoves
7. Kerosene stoves
8. LPG stoves
9. (Bio)ethanol stoves
10. Stove repairs
11. Fuel deliveries
12. Hybrid stove (Electricity and LPG)

-77 Other (specify)-99 Don't know |
| Other main product soldmain\_product==-77 | TEXT other\_product |
| In the last year, what was the second most important product sold by this establishment? (second-largest proportion of sales) | SINGLE-SELECT secondary\_product1. Charcoal
2. LPG fuel bottles
3. Kerosene
4. Electricity
5. (Bio)ethanol
6. Charcoal stoves
7. Kerosene stoves
8. LPG stoves
9. (Bio)ethanol stoves
10. Stove repairs
11. Fuel deliveries
12. Hybrid stove (Electricity/LPG)
13. Other

99 Dont know88 Refuse |
| Other secondary product soldsecondary\_product==-77 | TEXT other\_product2 |

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E V1 M1

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| --- | --- |
| Where does your establishment get most of its products for selling purposes? | SINGLE-SELECT product\_source1. Self-produced
2. Purchase from multiple small local producers

03  Purchase from large wholesale supplier within the country04  Imports directly from supplying company outside the country-77  Other (specify) |
| Other source of productsproduct\_source==-77 | TEXT other\_source |
| Is this enterprise located within a formal, permanent building? (brick/concrete walls) | SINGLE-SELECT formal\_building1. No
2. Yes
 |
| What percentage of the building within which this enterprise is located is rented by the enterprise?formal\_building==1 self<=100 & self>0Percentage cannot be more than 100 or less than 0 | NUMERIC: INTEGER building\_percentageown |
| How many permanent, full time workers were employed by this enterprise in the last fiscal year? (including all employees and managers)self>0The enterprise cannot have zero workers. | NUMERIC: INTEGER permanent\_workers |
| How many of the permanent, full time workers employed by this enterprise in the last fiscal year were female? | NUMERIC: INTEGER workers\_female |
| Is the top manager of this firm female?workers\_female>0 | SINGLE-SELECT manager\_female00  No01  Yes |
| How many temporary or full-time seasonal workers did this establishment employ in the last fiscal year? | NUMERIC: INTEGER temp\_workers |
| How many of the full-time permanent workers employed at this enterprise in the last fiscal year had completed secondary school? | NUMERIC: INTEGER workers\_secschool |
| How many of the full-time permanent workers employed at this enterprise in the last fiscal year had completed a tertiary qualification?workers\_secschool!=0 | NUMERIC: INTEGER workers\_terted |
| Usual daily opening time? (24-hour clock) | TEXT opening\_time |
| Usual daily closing time? (24-hour clock) | TEXT closing\_time |

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V1 M1

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At the present time, does this establishment use cellphone to communicate with clients?

At the present time, does this establishment use email to communicate with clients?

What is the usual monthly wage of the average non- managerial employees in this firm? (TZS)

W1 self<3000000

M1 This wage seems very high. Are you sure?

SINGLE-SELECT cell\_comm

1. No
2. Yes

SINGLE-SELECT email\_comm

1. No
2. Yes

NUMERIC: INTEGER wage

SPECIAL VALUES

-700

-800

No non-managerial employees.

Only payments in kind

In the last 30 days<\u>, what were this establishment’s total sales for all products and services? (TZS)

If selling multiple products, approximately what percentage of the above annual sales can be attributed to the cooking stoves and energy?

NUMERIC: INTEGER sales\_value

NUMERIC: INTEGER sales\_energypercentage

V1 self<=100 & self>0

M1 Enter percentage

At this time, does this establishment have a line of credit or a loan from a formal financial institution

Over the last year, how many times was the establishment visited or inspected by tax officials or required to meet with them?

SINGLE-SELECT credit

* 1. No
	2. Yes

NUMERIC: INTEGER tax\_inspections

W1 self<20

M1 This number seems very large. Are you sure?

Is this establishment part of a formal or informal

SINGLE-SELECT business\_assoc

business association (e.g. Chamber of Commerce)?

## LPG CANNISTERS

1. No
2. Yes

lpg\_cannisters

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|  |  |
| --- | --- |
| Does this enterprise sell LPG gas cannisters? | SINGLE-SELECT sell\_lpg1. No
2. Yes
 |
| Does this enterprise offer an LPG collection and delivery service? | SINGLE-SELECT collect\_lpg1. No
2. Yes
 |
| How is the LPG sold by this enterprise usually | SINGLE-SELECT transport\_lpg |
| transported to customer’s location of use? | 01  Enterprise delivery service |
| sell\_lpg == 1 | 02  Customer own transport03  Enterprise hired transport |
|  | 04  Customer hired transport |
|  | -77  Other (specify) |

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|  |  |
| --- | --- |
| Other transporttransport\_lpg==-77 | TEXT other\_transport |
| Who are the main LPG buyers from this enterprise?sell\_lpg == 1 | SINGLE-SELECT buyers\_lpg01  Households for home use1. Businesses
2. Resellers

-77 Other(specify) |
| Other buyersbuyers\_lpg==-77 | TEXT other\_buyers |
| Does this enterprise offer finance (i.e. sales on creidt) for new LPG cannister purchases?sell\_lpg == 1 | SINGLE-SELECT finance\_lpg00  No01  Yes |
| What is the repayment period (in months)finance\_lpg == 1 | NUMERIC: INTEGER repayment\_lpg |
| What is the interest rate per month?Enter -99 if the seller does not know.finance\_lpg == 1 | NUMERIC: INTEGER interest\_lpg |
| Does the enterprise offer a warrantee for LPG cannisters?sell\_lpg == 1 | SINGLE-SELECT warrantee\_lpg01  Yes02  No |
| Who does this enterprise view as its main source of competition?sell\_lpg == 1 | SINGLE-SELECT competition\_lpg01  Other LPG vendors1. Charcoal vendors
2. Kerosene vendors
3. Ethanol vendors
4. Electricity grid rollout
5. Solar electricity vendors

-77 Other (specify) |
| Other competitioncompetition\_lpg==-77 | TEXT other\_competition |
| Which of the following LPG cannister sizes does this enterprise sell?sell\_lpg==1 | MULTI-SELECT which\_lpgsize1. 3 kg
2. 6 kg
3. 13 kg
4. 38 kg
 |

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LPG CANNISTERS

#### Roster: LPG\_ROSTER

generated bymulti-select question which\_lpgsize lpg\_roster

E sell\_lpg == 1

|  |  |
| --- | --- |
| New FIRST PURCHASE price for a filled%rostertitle% canister? (TZS)This is to buythe new cannister if you do not have a cannister. | NUMERIC: INTEGER newprice\_cannister |

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## CHARCOAL

charcoal

What is the price to exchange an empty

%rostertitle% canister for a full one? (TZS)

NUMERIC: INTEGER

refillprice\_canister

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| --- | --- |
| Does this enterprise sell charcoal? | SINGLE-SELECT sell\_charcoal1. No
2. Yes
 |
| Does this enterprise offer a charcoal delivery service? | SINGLE-SELECT deliver\_charcoal1. No
2. Yes
 |
| How is the charcoal sold by this enterprise usually transported to customer’s location of use?sell\_charcoal == 1 | SINGLE-SELECT transport\_charcoal01  Enterprise delivery service02 Customer own transport 03 Customer hired transport 04 Enterprise hired transport |
| Who are the main charcoal buyers from this enterprise?sell\_charcoal == 1 | SINGLE-SELECT buyers\_charcoal01  Households for home use1. Businesses
2. Resellers

-77 Other (specify) |
| Other charcoal buyersbuyers\_charcoal==-77 | TEXT other\_cbuyers |
| How do most customers pay for charcoal purchases?sell\_charcoal == 1 | SINGLE-SELECT pay\_charcoal01  Mobile money (Mpesa etc)1. Cash
2. Card

-77 Other (specify) |
| Other charcoal payment methodpay\_charcoal==-77 | TEXT other\_cpay |
| Where does this enterprise obtain this charcoal?sell\_charcoal == 1 | SINGLE-SELECT obtain\_charcoal01  Own production facility1. Buy in bulk from a wholesaler
2. Buy at small scale from sellers

-77 Other (specify) |
| Other place of obtaining charcoalobtain\_charcoal==-77 | TEXT other\_obtain |
| Total quantity of Charcoal sold in the last 30 days?sell\_charcoal == 1 | NUMERIC: INTEGER quantity\_charcoal |

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| --- | --- |
| Unit of salessell\_charcoal == 1 | SINGLE-SELECT unit\_charcoal01  2 liters Sado1. 4 liters Sado
2. 10 liters bucket
3. 20 liters bucket/Debe
4. Kgs
5. 10kg bag
6. 20kg bag
7. 50kg bag
8. 100kg bag
9. Tons
10. Other (specify)
 |
| How many months in the last year was this business engaged in selling charcoal?sell\_charcoal == 1 | NUMERIC: INTEGER monthssell\_charcoal |
| How much does it cost this enterprise to buy charcoal (cost per unit)?sell\_charcoal == 1 | NUMERIC: INTEGER procure\_charcoal |
| Unit of procurementsell\_charcoal == 1 | SINGLE-SELECT unitbuy\_charcoal01  2 liters Sado1. 4 liters Sado
2. 10 liters bucket
3. 20 liters bucket/Debe
4. Kgs
5. 20kg bag
6. 50kg bag
7. 100kg bag
8. Tons

10 Other (specify) |
| Which of the following Quantities of charcoal does this enterprise sell?sell\_charcoal==1 | MULTI-SELECT sell\_charcoalinunit1. 2 liters Sado
2. 4 liters Sado
3. 10 liters bucket
4. 20 liters bucket/Debe
5. Kilograms
6. 20kg bag
7. 50 kg bag
8. Tons
 |

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CHARCOAL

#### Roster: CHARCOAL\_ROSTER

generated bymulti-select question sell\_charcoalinunit charcoal\_roster

E sell\_charcoal == 1

## BIOETHANOL AND KEROSENE

bioethanol\_kerosene

What is the price of one %rostertitle% of charcoal from this enterprise? (TZS)

NUMERIC: INTEGER

pricechar\_inunit

Does the enterprise sell Ethanol/Bioethanol ?

SINGLE-SELECT sell\_ethanol

* 1. No
	2. Yes

Who are the main buyers of Ethanol/Bioethanol at

SINGLE-SELECT main\_ethanolbuy

this enterprise?

E sell\_ethanol==1

01

02

-77

Households for home use Businesses

Other (specify)

Other ethanol buyer

TEXT other\_ethbuy

E main\_ethanolbuy==-77

Price at which the enterprise sells Ethanol/Bioethanol per LITER (Tsh)

TEXT price\_ethanol

E sell\_ethanol == 1

Does the enterprise sell Kerosene ?

SINGLE-SELECT sell\_kerosene

1. No
2. Yes

Price at which the enterprise sells Kerosene per LITER (Tsh)

TEXT price\_kero

E sell\_kerosene == 1

Who are the main buyers of Kerosene at this

SINGLE-SELECT main\_kerosenebuy

enterprise?

E sell\_kerosene==1

01

02

-77

Households for home use Businesses

Other (specify)

Other ethanol buyer

TEXT other\_kerbuy

E main\_kerosenebuy==-77

## ELECTRICITY

electricity

## STOVES

stoves

Does this enterprise sell electricity vouchers?

SINGLE-SELECT

elec\_sell

1. No
2. Yes

|  |  |
| --- | --- |
| Does this enterprise sell stoves? | SINGLE-SELECT stove\_seller1. No
2. Yes
 |

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|  |  |
| --- | --- |
| Which of the following stoves does this enterprise sell? | MULTI-SELECT list\_stoves01 Traditional Charcoal Stoves |
| stove\_seller==1 | 1. Improved Charcoal Stoves
2. LPG stoves (1 burner)
 |
|  | 04 LPG stoves (2 burners) |
|  | 05 Kerosene stove |
|  | 06 Bioethanol/Ethanol stoves |
|  | 07 Improved wood-burning stoves |
|  | 08 Electric stoves (1 plate) |
|  | 09 Electric stove (2 plates) |
|  | 10 Hybrid stoves (Electric & LPG) |

STOVES

#### Roster: STOVES ROSTER

generated bymulti-select question list\_stoves stoves\_roster

E stove\_seller==1

## FIREWOOD PRICES

firewood\_price

Does this enterprise sell %rostertitle% ?

SINGLE-SELECT

sell\_stove

1. Yes
2. No

Does this enterprise repair %rostertitle% ?

SINGLE-SELECT

repair\_stove

1. Yes
2. No

Price at which %rostertitle% is bought from the supplier?

NUMERIC: INTEGER

pricebuy\_stove

E sell\_stove == 1

SPECIAL VALUES

-99 Don't know

-88 Refuse

Price at which %rostertitle% is sold by the enterprise?

NUMERIC: INTEGER

pricesell\_stove

E sell\_stove == 1

Does the enterprise offer financing for sales of

%rostertitle% ?

SINGLE-SELECT

finance\_stove

00

No

E sell\_stove == 1

01 Yes

Does the enterprise offer a warrantee with the sale of %rostertitle%?

SINGLE-SELECT

warrantee\_stove

E sell\_stove == 1

01

02

Yes

No

E

|  |  |
| --- | --- |
| Does this enterprise sell firewood | SINGLE-SELECT sell\_firewood1. No
2. Yes
 |
| Price of bundle 1sell\_firewood==1 | NUMERIC: INTEGER bundle\_price1 |

Estimation of bundle 1 weight (kg)

NUMERIC: INTEGER

estimation\_size\_bundle1

E sell\_firewood==1

Price of bundle 2

NUMERIC: INTEGER

bundle\_price2

E sell\_firewood==1

Estimation of bundle 2 weight (kg)

NUMERIC: INTEGER

estimation\_size\_bundle2

E sell\_firewood==1

# *APPENDIX A — CATEGORIES*

[1] yesno

Categories: 1:Yes, 2:No

# *LEGEND*

Legend and structure of information in this file



