

UNECE/FAO online training on improving data
on wood energy supply and use in EECCA

Multiple Indicator Cluster Surveys (MICS) (Round 7)

Household Energy Use

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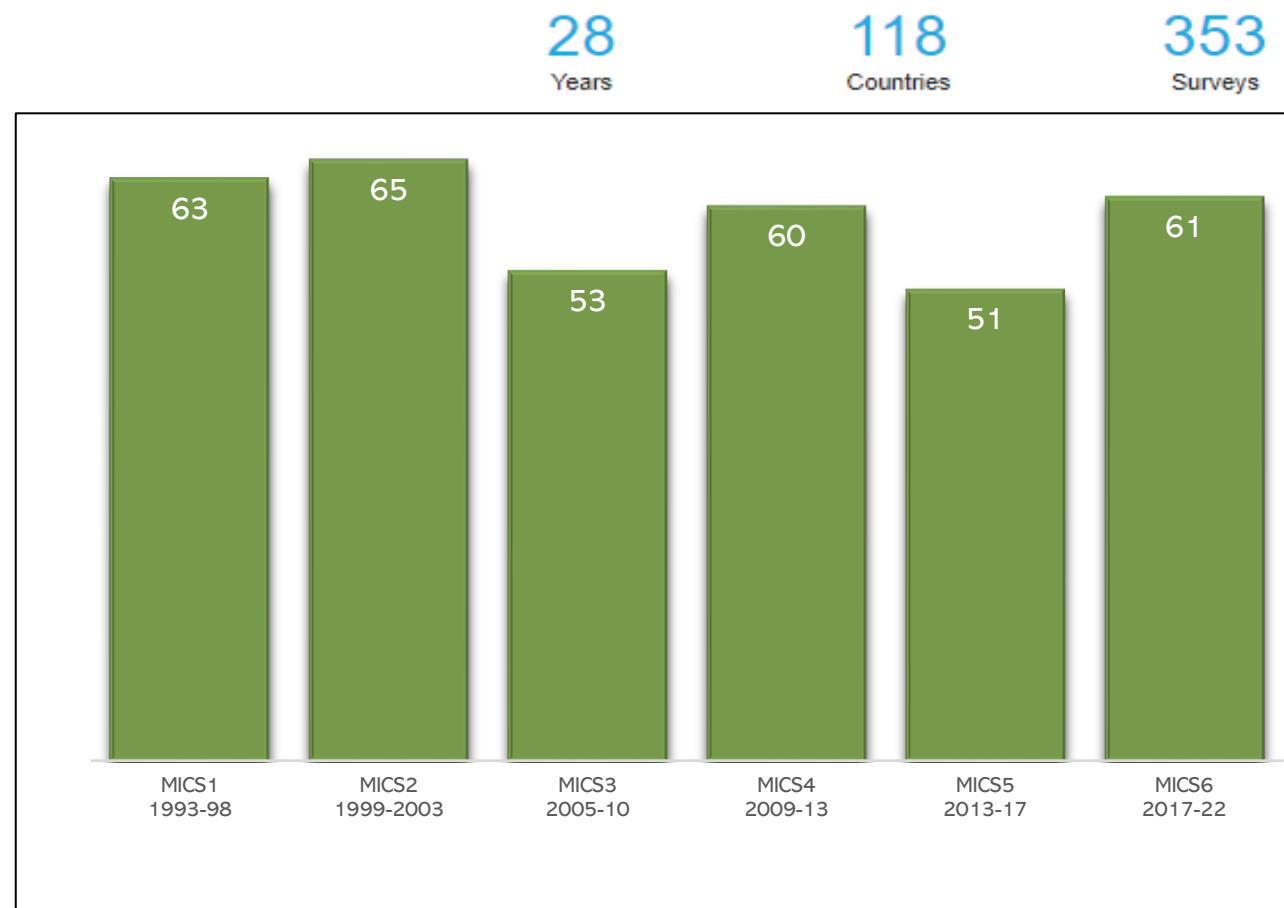
UNICEF Europe and Central Asia Regional Office

17 April 2023



Multiple Indicator Cluster Surveys (MICS)

- The **largest global survey programme** on children and women.
- Assist countries in **filling data gaps**, including for SDGs
- Full **government ownership** – NSO driven
- **Globally comparable data**
- **Standard questionnaires** with country adaptations
- **Standard tools** for all survey stages, customized by countries
- Tablet-based data collection



The new round of MICS was officially launched at a side event to the 54th United Nations Statistical Commission at UNICEF House on 2 March 2023.

Status of MICS in Europe and Central Asia region (2017-2023)

Country office (9)	Year
Georgia	2018
Montenegro	2018
Kyrgyzstan	2018, 2023 (data collection)
North Macedonia	2018-19
Belarus	2019
Serbia	2019, 2024 (tbc)
Turkmenistan	2019, 2023 (data collection)
Kosovo* (UNSCR 1244)	2019-20
Uzbekistan	2021-22
Azerbaijan	2023 (data collection)

SDGs and MICS

- A global public good
- Indicators and content are not “only for UNICEF”
- Based on demand from countries and development partners, validated, tested questions are included in the standard questionnaires

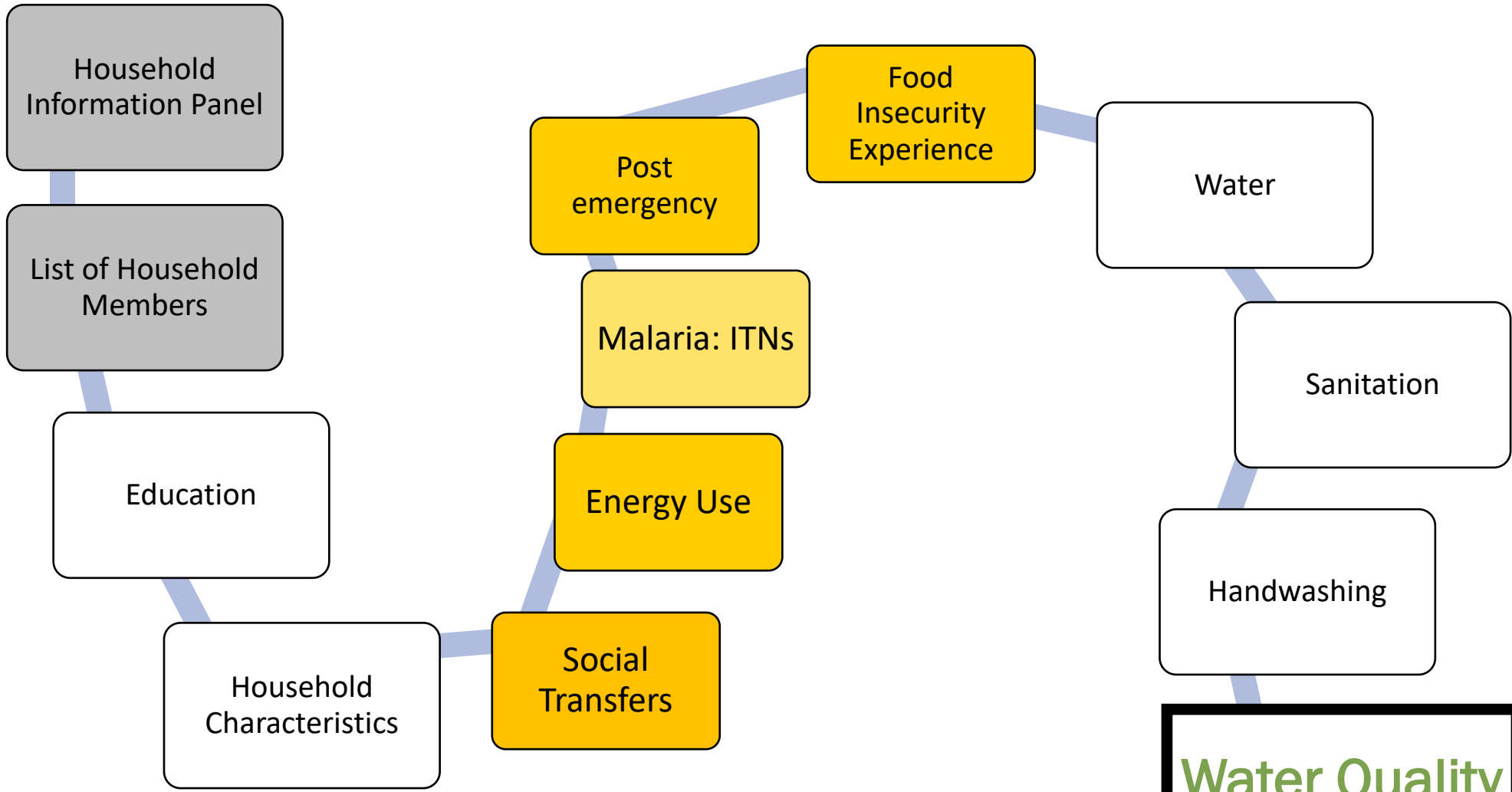


MICS7 includes 40 SDG indicators under 11 different goals – 43 percent of all household survey-based indicators

4 Base questionnaires (18 topics) + Complimentary topics (67)

HOUSEHOLD	WOMEN	UNDER-5	5-17
Household Info Panel	Woman's Info Panel	U5 Child's Info Panel	5-17 Child's Info Panel
List of HH Members	Woman's Background	U5 Child's Background	5-17 Child's Background
Household Characteristics	Fertility/Mortality	ECD	Child Labour
Education	<u>ANC+Delivery</u>	Child Discipline	Child Discipline
Water	Marriage/Union	Child Functioning	Child Functioning
Sanitation		Immunisation	Parental Involvement
Handwashing		Anthropometry	Foundational Learning
Water Quality			

Household



**A comprehensive
set of tools guide
survey teams
through every
step of the MICS
process**



Survey design



Data collection



Data processing



Analysis



Reporting

Household Energy Use

(complimentary topic)

Household Energy Use

Global indicator framework

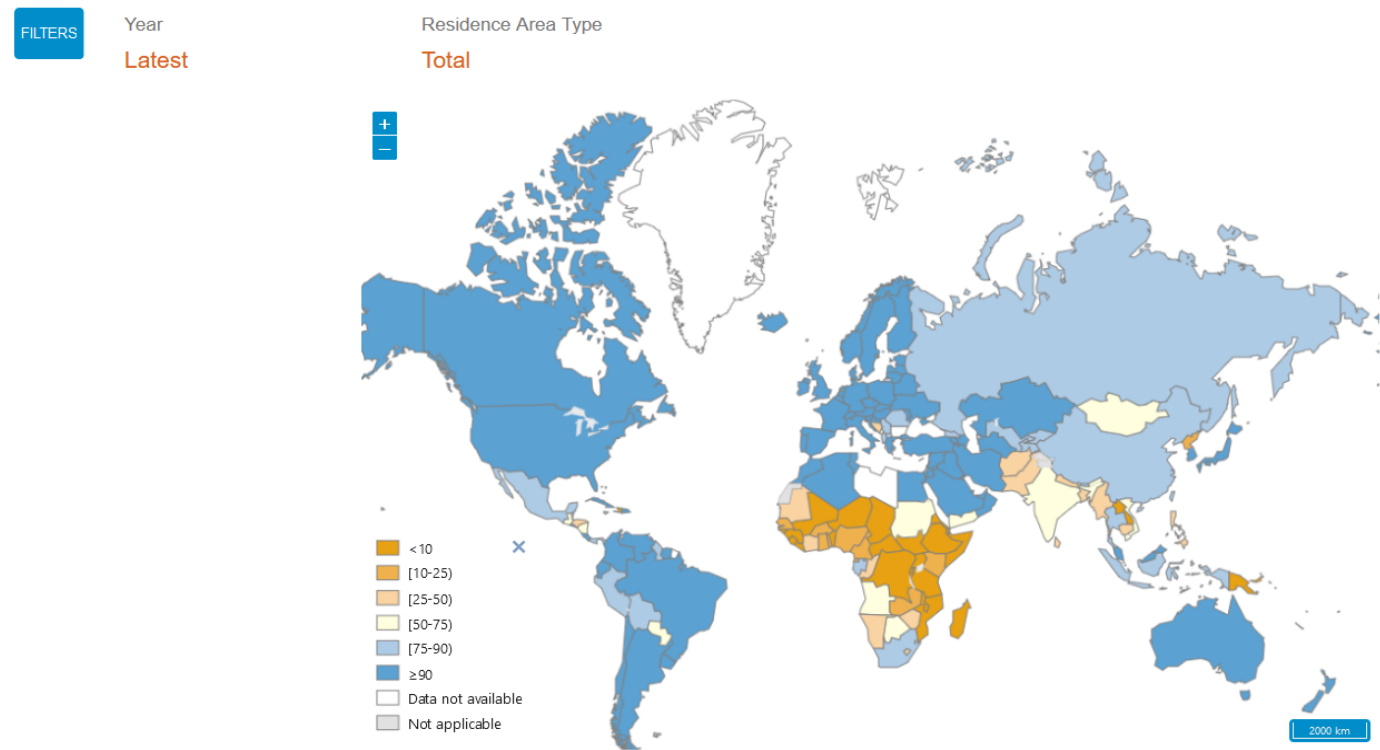
- [SDG Indicator 7.1.2](#): Proportion of population with primary reliance on clean fuels and technology

Partners and Data sources

For indicator databases, visit:

- [WHO](#)

Proportion of population with primary reliance on clean fuels and technologies for cooking (%)



Disclaimer

The designations employed and the presentation of the material in this publication do not imply the expression of any opinion whatsoever on the part of WHO concerning the legal status of any country, territory, city or area or of its authorities, or concerning the delimitation of its frontiers or boundaries. Dotted and dashed lines on maps represent approximate border lines for which there may not yet be full agreement.



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ages/mega-menu/health-topics

Household Energy Use

Concept and History

- Introduced in MICS6
- MICS testing and piloting, ‘owned’ by WHO
- Three **uses** are targeted:
 - *Cooking*
 - *Space heating**
 - *Lighting*

* if applicable

Energy Use topic

(in MICS or integrate topic into a national survey)

Considerations for inclusion ?

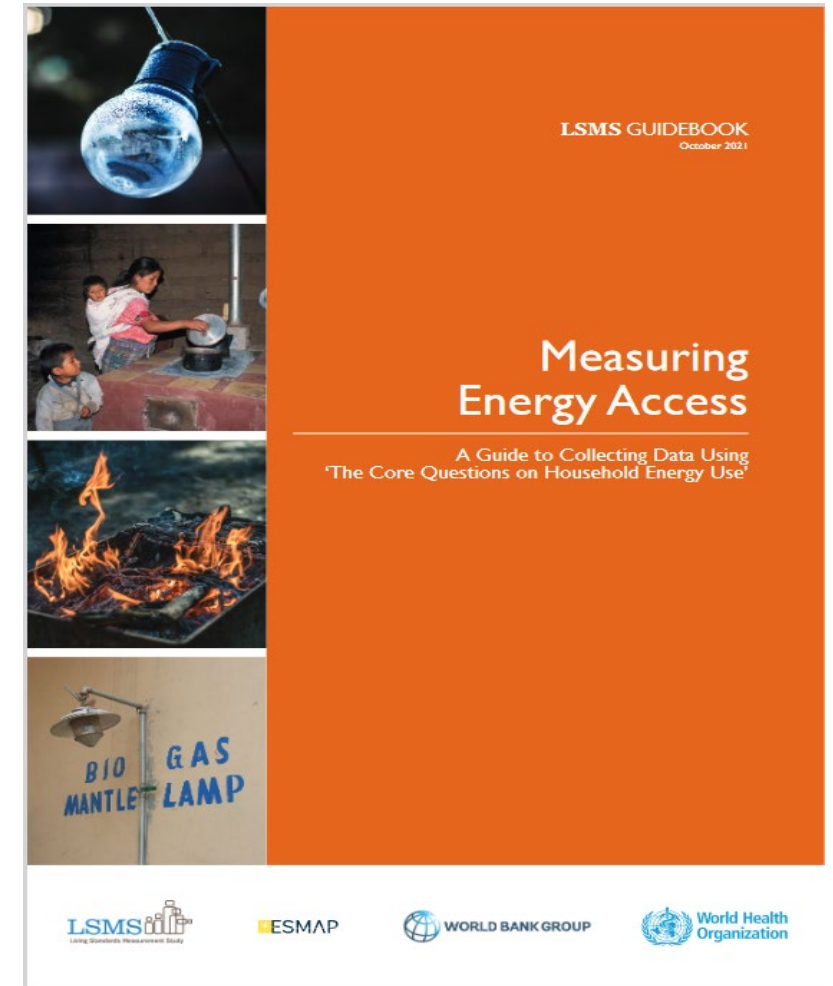
- The module is relatively simple and low-burden

Sampling consideration ?

- Inclusion of the topic should not affect any sample considerations as it is asked to all households

Logistic and other potential challenges?

- The module does not pose challenges related to logistics



Energy Use

Questions, placement, and customisation

- Household Questionnaire
- Includes 7 questions
- Placed as indicated in the Guidelines for the Customisation of MICS7 Questionnaires

Training considerations

- One 45-minute session should be adequate. The content is recommended to include the following:
 - Introduction by Energy Expert: Overview of household energy use in the country, for cooking, lighting and heating.
 - Presentation of pictorials/catalogue in Instructions.
 - How to differentiate between the different types of fuel use.
 - Q&A

WHO Guidelines for indoor air quality: Household fuel combustion

21 January 2014 | Guideline



Download (1.7 MB)

Overview

In 2014, WHO issued the first-ever health-based guidelines on clean fuels and technologies for household cooking, heating and lighting. These guidelines aim to help public health policy-makers, as well as specialists working on energy and resource issues, understand and implement best approaches to reducing household air pollution. This extensive scientific assessment identifies which energy systems can be considered clean for health in the home, and specifies the levels of emissions that pose health risks.

The guidelines also include recommendations against the use of unprocessed coal as a household fuel, and against the use of kerosene as a household fuel, in the light of health and safety risks. Another recommendation addresses the need for policies that prioritize substantial health benefits during the transition from use of solid, polluting fuels to clean fuels and technologies, especially in low-income and rural households.

[Access the Guidelines](#)

[Access the Executive Summary](#)

Air Quality and Health Unit

Clean Household Energy Solutions Toolkit (CHEST)

Energy Use – cooking

EU1. What does this household use for cooking most of the time, including cooking food, making tea or coffee, boiling drinking water?

SOLAR COOKER (THERMAL ENERGY, NOT SOLAR PANELS)	01	01 ⇒EU6
ELECTRIC STOVE.....	02	02 ⇒EU6
PIPED NATURAL GAS STOVE.....	03	03 ⇒EU6
BIOGAS STOVE	04	04 ⇒EU6
LIQUEFIED PETROLEUM GAS (LPG)/ COOKING GAS STOVE.....	05	05 ⇒EU6
MANUFACTURED SOLID FUEL STOVE	06	
TRADITIONAL SOLID FUEL STOVE (NON-MANUFACTURED)	07	
LIQUID FUEL STOVE	08	08 ⇒EU4
MOVEABLE FIREPAN	09	09 ⇒EU4
THREE STONE STOVE / OPEN FIRE	10	10 ⇒EU4
OTHER (<i>specify</i>)	96	96 ⇒EU4
NO FOOD COOKED IN HOUSEHOLD	97	97 ⇒EU6

Energy Use – main energy source for cookstove

EU4. What type of fuel or energy source is used in this cookstove?

If more than one, record the main energy source for this cookstove.

ALCOHOL / ETHANOL.....	01
GASOLINE / DIESEL (NOT IN GENERATOR).....	02
KEROSENE / PARAFFIN	03
COAL / LIGNITE UNPROCESSED.....	04
COAL / LIGNITE BRIQUESTTES / PELLETS...	05
CHARCOAL UNPROCESSED	06
CHARCOAL BRIQUESTTES / PELLETS.....	07
WOOD	08
AGRICULTURAL OR CROP RESIDUE / GRASS / STRAW / SHRUBS / CORN COBS ...	09
ANIMAL DUNG / WASTE	10
PROCESSED BIOMASS PELLETS / BRIQUESTTES	11
WOODCHIPS.....	12
GARBAGE / PLASTIC	13
SAWDUST	14
OTHER (<i>specify</i>).....	96

Energy Use - heat the home

EU6. What does this household use to heat the home <u>when needed</u> ?	CENTRAL HEATING.....01	01 ⇒EU8
	MANUFACTURED SPACE HEATER02	
	TRADITIONAL SPACE HEATER.....03	
	MANUFACTURED COOKSTOVE04	
	TRADITIONAL COOKSTOVE (NON-MANUFACTURED).....05	
	MOVEABLE HEATING PAN.....06	06 ⇒EU8
	OPEN FIRE / THREE STONE STOVE07	07 ⇒EU8
	HEAT PUMP08	08 ⇒EU8
	OTHER (<i>specify</i>)_____96	96 ⇒EU8
	NO SPACE HEATING IN THE HOUSEHOLD...97	97 ⇒EU9
SPACE HEATING NEVER NEEDED00	00 ⇒EU9	

Energy Use – lighting or as a light source

EU9. What does this household use most of the time as energy for lighting, or as a light source?

ELECTRICITY (INCLUDING SOLAR PANELS).....	01
SOLAR-POWERED LANTERN OR FLASHLIGHT.....	02
RECHARGEABLE FLASHLIGHT, MOBILE, TORCH OR LANTERN	03
BATTERY POWERED FLASHLIGHT, TORCH OR LANTERN	04
BIOGAS LAMP.....	05
LIQUEFIED PETROLEUM GAS (LPG) LAMP.....	06
GASOLINE LAMP.....	07
KEROSENE / PARAFFIN LAMP	08
OIL LAMP.....	09
CANDLE	10
OPEN FIRE.....	11
OTHER (<i>specify</i>).....	96
NO LIGHTING IN HOUSEHOLD	97

TC.3. Household energy use

Table TC.3.1: Primary reliance on clean fuels and technologies for cooking

Table TC.3.2: Primary reliance on solid fuels for cooking

Table TC.3.3: Polluting fuels and technologies for cooking by type and characteristics of cookstove and place of cooking

Table TC.3.4: Primary reliance on clean fuels and technologies for lighting

Table TC.3.5: Primary reliance on clean fuels and technologies for cooking and lighting

TC.4. Symptoms of acute respiratory infection

Table TC.4.1: Care-seeking for and antibiotic treatment of symptoms of acute respiratory infection (ARI)

Table TC.3.5: Primary reliance on clean fuels and technologies for cooking and lighting

Percentage of household members living in households using clean fuels and technologies for cooking and lighting, Bangladesh, 2019		
	Primary reliance on clean fuels and technologies for cooking and lighting ^{1,A}	Number of household members
Total	19.0	260,959
Area		
Urban	58.0	56,700
Rural	8.2	204,259
Division		
Barishal	4.5	14,960
Chattogram	22.8	50,729
Dhaka	41.8	63,467
Khulna	7.6	29,859
Mymensingh	8.6	19,087
Rajshahi	8.6	33,979
Rangpur	5.3	29,298
Sylhet	12.2	19,580
Education of household head		
Pre-primary or none	9.3	92,137
Primary	14.7	71,061
Secondary	23.9	66,205
Higher secondary+	46.7	31,432
Missing/DK	27.4	125
Ethnicity of household head		
Bangali	19.1	257,795
Other	7.1	3,165
Wealth index quintile		
Poorest	0.2	52,194
Second	0.5	52,189
Middle	3.1	52,193
Fourth	21.3	52,203
Richest	69.9	52,180

Standard disaggregation in MICS

Standard tabulations already contain many disaggregates:

- Urban/rural area
- Region/Province/State
- Age
- Education level
- Functional difficulties (disability)
- Ethnicity/language/religion
- Wealth
- Table/indicator-specific disaggregates

¹ MICS indicator TC.18 - Primary reliance on clean fuels and technologies for cooking and lighting; SDG Indicator 7.1.2

^A In order to be able to calculate the indicator, household members living in households that report no cooking or no lighting are not excluded from the numerator

Exploration of any cross-tab of the above in further analysis (e.g. urban poor, adolescents in rural households)

What support
is expected
from the
MICS Team?

Tabulation plan : Energy Use

SPSS Syntax

Snapshot template

Survey finding report text

For more information

www.mics.unicef.org

[Go to unicef.org](#) [Go to data.unicef.org](#) [Support UNICEF](#)

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Over two decades, more than 300 Multiple Indicator Cluster Surveys have been carried out in more than 100 countries.

[Latest Surveys](#)



Tools

Documentation to guide survey teams through every step of the MICS process



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Access the full list of MICS surveys, view survey status, download reports and datasets



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Methodological work



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Thank you