



IOM Energy Needs Assessment Framework

GSC NFI Working Group: 1st Meeting of 2021: Energy and Environment Linkages

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IOM Team for Energy Needs Assessments



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Both **NORCAP** Energy Experts Deployees

- o IOM Headquarters, Geneva
- o Timeframe: October 2020 April 2021

Objectives:

- to design standardized energy needs assessments for <u>households</u>, community facilities and IOM facilities
- to improve access to missing data, which would support project implementation and track progress toward energy access goals...



- ... while anchoring the work in existing IOM Displacement Tracking Matrix (DTM) methodology and processes
- and in line with the Global Plan of Action (GPA), UNHCR Clean Energy
 Challenge (CEC) and Joint Intersectoral Analysis Framework (JIAF) indicators



The Displacement Tracking Matrix (DTM)

DISPLACEMENT TRACKING MATRIX • DTM Understanding Displacement for Better and Accountable Humanitarian Response Past and Present Operations as of November 2019 The Displacement Tracking Matrix (DTM) is a system to track and monitor displacement and population mobility. Active Operations Currently Inactive It is designed to regularly and systematically capture, Bulgaria Bosnia and Herzegovina process and disseminate information to provide a better North Macedonia Montenegro understanding of the movements and evolving needs of Serbia Kosovo 1244 displaced populations, whether on site or en route. Croatia Albania United Kingdom of Great Britain and Northern Ireland Antigua and Barbuda Micronesia (Federated States of) Guatemala Marshall Islands El Salvador Nicaragua Papua New Guinea Mozambique Madagascar Uruguay data collectors in the field in 2018 technical experts in the field in 2018 DTM has been active in since 2004 plus 19 mil returnees and 5 mil migrants

DTM data is used by large number of partners, including
 Disaster Management Authorities, Ministries, Inter-Cluster,
 Shelter Cluster, CCCM Cluster, other Clusters, AoRs, Sectors
 and Working Groups as well as individual organizations

 DTM provides data to the large humanitarian community, mostly through public dissemination



DTM Components

Groups and

Location

MOBILITY TRACKING

Tracks mobility and crosssectoral needs in locations of interest (systematically)

Sub-components:

- Baseline Area/ Sub Area
- Multi Sectoral Location Assessment
- Emergency Event Tracking (Sudden large movement of population)

FLOW MONITORING

Tracks movement of flows at specific points



Sub-components:

- High mobility location assessment
- Flow Monitoring Registry

REGISTRATION

Registers individuals or households for beneficiary selection, vulnerability targeting and programming



Households and Individuals

SURVEYS

Gather specific information using sample from population of interest

Sub-components:

- Rapid Emergency Registrations
- · Biometric Registration

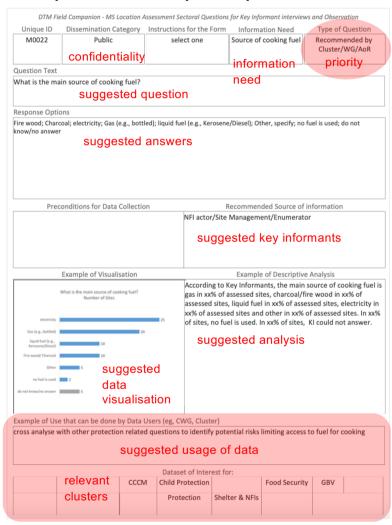
Examples:

- · Return Intention
- · Community Perception
- Displacement Solutions
- Flow Monitoring Surveys

DTM Field Companion

- The Multi-Sectoral Location Assessments (MSLA) are created by selecting questions in the sectoral Field Companions according to the information needs in the field
- Field Companions comprise a compilation of suggested questions compiled by clusters, AoRs, WGs, etc. to choose from and adapt according to the context
- The data collection methodologies are KEY INFORMANT INTERVIEWS and OBSERVATIONS
- Each Field Companion systematically includes the same information
- DTM Teams at the national/regional level decide on what are the information needs (based on the suggestions in the Field Companions) they will include in a MSLA
 - ⇒ We aim to create an Energy Field Companion

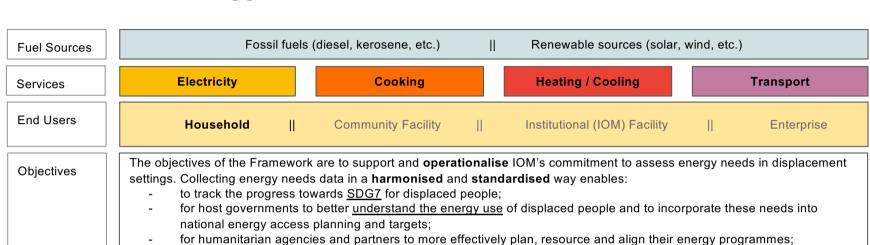
Example of a Field companion question:





The IOM Energy Needs Assessment Framework [working draft]

The IOM Energy Needs Assessment Framework



- inter-agency comparison of datasets and analyses;
- to inform programme and project design (facilitate a better-tailored design of energy interventions);
- to inform evidence-based fundraising as well as to support <u>humanitarian needs overviews</u>, <u>humanitarian response plans</u> and any other relevant appeals:
- to ease the process of <u>data sharing</u> among organisations and institutions, leading to <u>collaboration</u> on joint project development.

Global-level Framework

<u>Phase I</u>: Information used to provide a snapshot of energy access, track changes over time and prioritize displacement settings with the biggest (sustainable) energy access gaps

Methods: Secondary data review + Key Informants Interviews & Direct Observations by Enumerators

Project-level Framework <u>Phase II</u>: Information used to support project and programmes development, engage private sector, and unlock financing opportunities

Methods: Secondary data review + interviews with key informants (community and institutional facilities levels) and individuals (household interviews) & Direct Observations by Enumerators

Key Indicators

⇒ Selection of standardized and harmonized energy indicators Sources: UNHCR, GPA, MTF, UN SDG7, etc.

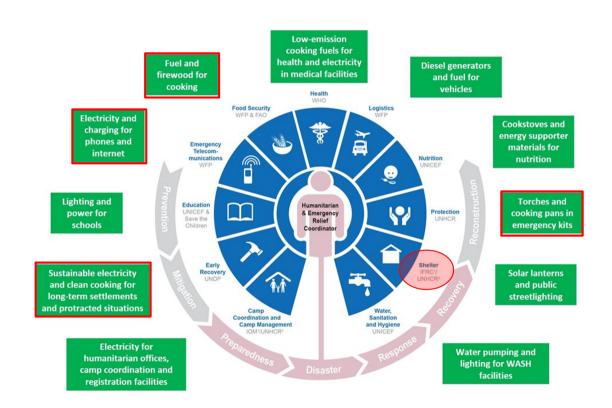
Global Level - suggested Data Collection Focus through DTM MSLA*

*Through key **Energy services at the household level** informants interviews. based on suggested DTM Energy Field **Heating / Cooling** Cooking **Electricity** Companion Cooking fuel Lighting Winterisation Thermal comfort Cooking stove Connectivity Level of access Level of access Also identify: Level of access Information needs Technologies used Cooking fuel sources Electricity sources - Priorities in terms of **Available** solutions Cooking stoves used Technologies used energy needs at the local market/ Cooking environment (in/outdoor) Number of **hours** of through distribution Means of fuel and stoves acquisition lighting and electricity - Specific/vulnerable Available cooking solutions at the available **groups** with most local market/ through distribution Main **barriers** for limited access Coping strategies for lack of fuel access

GLOBAL LEVEL

	Fuel Source		Fossil fuels (diesel, etc)				Renewable sources (solar, wind, etc.)					
	Output & Distribution	Households										
		Off-grid systems		Hybrid systems		National grid			Fuel			
Energy Sector Management Assistance Program	MTF Multi- Tier Framework Attributes (World Bank)	Peak Capacity	Availability (Duration)	Reliability	Quality	Affordability	Legality	Convenience		Health	Safety	
	Services	vices Electricity					Cooking			Heating/Cooling		
	Examples of Key Global Level Indicators* * not definitive indicators ⇒ currently under revision for feedback (!)	Proportion of population with access to electricity for at least four hours per day, including two hours during the night (%)		Proportion of households with access to at least two hours of lighting in their shelters during night time (%)		Proportion of population with primary reliance on clean fuels for cooking (%)	Proportion of population with primary reliance on clean stoves for cooking (%)		Proportion of households with access to heating	solutions in their shelter (%)	Proportion of households with access to cooling solutions in their shelter (%)	

Coordination and consultation with other stakeholders





















Interactive Q&A and feedback gathering from NFI WG members

Keeping in mind DTM's Multi-Sectoral Location Assessment (MSLA) methodology (i.e. key informant interviews) and that data are meant to serve the humanitarian sector:



- Which associated energy indicators would be aligned/useful for the Shelter & NFI Cluster?
- Where do you see the biggest **energy data gaps in the field**, and thus an opportunity to use DTM MSLA to fill these gaps?
- Which type of energy-related data are most impactful for decision making by the shelter & NFI Cluster?
- What would be the best way to use MSLAs to **prioritise energy needs** and **most vulnerable populations**?



We would greatly benefit from your feedback and inputs, so thank you in advance!

Link to Google Document:

https://docs.google.com/spreadsheets/d/1nueebAcD0bLT4C5jKgNObP0YPh5FKk5neQdAEgQ7el8/edit?usp=sharing (also sent in the chat, please put your name and organisation when commenting)





Thank you for your attention

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