1 Moving Energy Initiative DataVis

1.1 Introduction and Background

The Moving Energy Initiative has partnered with the Humanitarian Data Exchange (HDX) from the United Nations Office for the Coordination of Humanitarian Affairs (OCHA) to produce a visualisation of global energy access for refugees and displaced people. The Humanitarian Data Exchange is an open platform that aims to make humanitarian data easy to access and analyse.

This visualisation project works to highlight the quality of energy access for lighting and cooking among refugees and displaced people, illustrating where sustainable energy solutions are most needed. The visualisation also details how these energy resources vary between camp and non-camp settings.

The underlying data for this project comes from a 2016 energy access model created by Chatham House. This model uses information from surveys, alongside data provided by humanitarian organisations working on the ground and contributions from consortium partners, to build a picture of energy access in camp and non-camp settings. As the raw data in this visualisation was collected once only, the Moving Energy Initiative and HDX call for contributions from those working in the field to provide updates to the dataset in order to produce the most accurate picture possible of global energy access for refugees.

Things to note:

- As a general rule, we have limited visualisation of camps to those with populations greater than 20,000. The exception to this rule is when we have reliable information on specific, smaller camps.
- In the event of missing data, energy type and costs have been assigned via extrapolation from data for similar settlements in the same region. Where this data is unavailable, we have assigned country-level data. In this way, the visualisation has been extended to as many settlements as possible.

1.2 How to Use

The map is coloured according to the main type of energy used for cooking. Zoom in and out of the global map, and click on individual countries to get a detailed energy breakdown for cooking and lighting, further segmented into camp and non-camp populations. For each country pop-up you will find summary pie charts for cooking and lighting, followed by a breakdown for camp and non-camp populations.

1.3 How to Contribute

This is a first attempt at collating energy data for refugees and displaced people in a visualisation. As time goes on, we hope to improve this information. Please leave any feedback or suggestions for additional data via the feedback form.

1.4 Guide to Terminology

Cooking definitions: the percentage of household expenditure spent on each fuel type (rows add to 100%). Rows are labelled by the dominant energy type.

Lighting definitions: the percentage of population in the camp using each fuel type (rows add to 100%). Rows are labelled by the dominant energy type.

Mini-grid 1: energy grid comprised of 70% solar, 30% diesel generators.

Mini-grid 2: energy grid comprised of 100% diesel generators.