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ISO/DPAS 16617:(en)

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Foreword

ISO (the International Organization for Standardization) is a worldwide federation of national standards bodies (ISO member bodies). The work of preparing International Standards is normally carried out through ISO technical committees. Each member body interested in a subject for which a technical committee has been established has the right to be represented on that committee. International organizations, governmental and non-governmental, in liaison with ISO, also take part in the work. ISO collaborates closely with the International Electrotechnical Commission (IEC) on all matters of electrotechnical standardization.

The procedures used to develop this document and those intended for its further maintenance are described in the ISO/IEC Directives, Part 1. In particular, the different approval criteria needed for the different types of ISO documents should be noted. This document was drafted in accordance with the editorial rules of the ISO/IEC Directives, Part 2 (see www.iso.org/directives 2 (see www.iso.org/directives)).

ISO draws attention to the possibility that the implementation of this document may involve the use of (a) patent(s). ISO takes no position concerning the evidence, validity or applicability of any claimed patent rights in respect thereof. As of the date of publication of this document, ISO had not received notice of (a) patent(s) which may be required to implement this document. However, implementers are cautioned that this may not represent the latest information, which may be obtained from the patent database available at www.iso.org/patents. ISO shall not be held responsible for identifying any or all such patent rights.

Any trade name used in this document is information given for the convenience of users and does not constitute an endorsement.

For an explanation of the voluntary nature of standards, the meaning of ISO specific terms and expressions related to conformity assessment, as well as information about ISO's adherence to the World Trade Organization (WTO) principles in the Technical Barriers to Trade (TBT), see www.iso.org/iso/foreword.html.

This document was prepared by Technical Committee ISO/TC 285, *Clean cookstoves and clean cooking solutions*, Working Group 1.

Any feedback or questions on this document should be directed to the user's national standards body. A complete listing of these bodies can be found at www.iso.org/members.html.

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Introduction

The significance of standardization in the cookstove sector is ~~already~~ well established ~~by the activity in ISO/TC 285~~. In addition to the documents published by ISO, there are many other “evaluation instruments” in existence throughout the world, covering different aspects of clean cookstoves and clean cooking solutions. These various evaluation instruments (standards, protocols, test methods, etc.) serve a multitude of purposes by examining a range of different metrics.

Determining the pros and cons of each evaluation instrument can be challenging. To address this gap, ~~ISO/PAS 16617~~this document provides guidelines to assist in assessing and identifying which evaluation instrument ~~should be chosen~~is most appropriate to address the specific needs of a particular situation. ~~By providing this~~This guidance, is intended to better inform stakeholders ~~will be better informed in order~~ to ensure that the end-product is fit for purpose in a holistic sense.

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~~Clean Cookstoves~~ cookstoves and ~~Clean Cooking Solutions~~ clean cooking solutions — Guidance for ~~Evaluation~~ evaluation

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1 Scope

This document provides guidance for examining evaluation instruments that assess cooking systems. The goal is to ensure that a cooking system evaluation instrument achieves its objectives and is fit for a particular purpose: ~~doing~~. Doing so ~~requires~~ means recognizing that the stove ~~itself~~ is ~~just~~ one part of a series of complex and interacting systems, many of which are variable.

The document includes procedures to ensure that:

— an evaluation instrument captures the necessary input measures at an appropriate level of detail and quality; ~~and that~~

— outputs from the evaluation instrument are accurate, repeatable, reproducible, and appropriate for assessing the stated outcome.

The document also provides guidance to interpret the outputs of an evaluation instrument when reporting. The document does not specify test methods nor recommend pre-determined procedures ~~nor~~ or benchmarks of performance, ~~sometimes~~ (also known as tiers).

2 Normative references

The following documents are referred to in the text in such a way that some or all of their content constitutes requirements of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies. ~~Note that vocabulary is available free of cost on the online ISO Browsing Platform.~~

ISO/TR_21276, *Clean cookstoves and clean cooking solutions — Vocabulary*

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3 Terms and definitions

For the purposes of this document, the terms and definitions given in ISO/TR 21276 and the following apply.

ISO and IEC maintain terminology databases for use in standardization at the following addresses:

— ISO Online browsing platform: available at <https://www.iso.org/obp>.

— IEC Electropedia: available at <https://www.electropedia.org/>.

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~~3.1~~

~~3.1~~

~~cooking system~~

combination of cookstove, (3.2), fuel, cooking equipment, cooking environment (including ventilation) (3.16) and cooking practice

[SOURCE: ISO/TR 21276:2018, 3.5.4]

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~~3.2~~ 3.2

cookstove

appliance primarily employed for the cooking of food, but which can also be employed for space or water heating, or other purposes

[SOURCE: ISO/TR 21276:2018, 3.1.7]

~~3.3~~ 3.3

correlative relationship

~~the~~ relationship between a *proxy metric* (3.10) and the *desired outcome*; (3.5), both of ~~these measures~~ which are relevant to the *system of desired impact* (3.15)

~~3.4~~ 3.4

critical ~~inputs~~input

~~aspects~~aspect of a *system* (3.13) that ~~affect~~affects the value of a measured *performance metric*; (3.9), and that ~~may~~can vary throughout a *system of desired impact* (3.15)

~~3.5~~ 3.5

desired outcome

outcome that the evaluator wishes to achieve in the *system of desired impact* (3.15)

~~3.6~~ 3.6

evaluation instrument

specified methodology of measuring or collecting data using a documented procedure

Note 1-to entry:-The term *evaluation instrument* is akin to "test method", "protocol", or "evaluation tool", etc.

Note 2-to entry:-An *evaluation instrument* ~~may~~can consist of a series of different tests or data collection steps.

Note 3-to entry:-An *evaluation instrument* ~~may~~can result in either quantitative or qualitative data, such as representing physical properties or social measures.

~~3.7~~ 3.7

fitness for purpose

~~an~~ assessment of an *evaluation instrument* ~~to ascertain if~~(3.6) ~~ascertaining~~ it is capable of sufficiently meeting the objectives for which it is to be applied

~~3.8~~ 3.8

mechanistic relationship

predictable connection between the *performance metric* (3.9) (a measure in the *system of action*; (3.14)) and the *proxy metric* (3.10) (a measure in the *system of desired impact*; (3.15))

~~3.9~~ 3.9

performance metric

measurable quantity characterizing the behaviour of the *system of action* (3.14) with regard to some aspect of a *cooking system* (3.1)

~~3.10~~ 3.10

proxy metric

measurable quantity in the *system of desired impact*; (3.15), which is related to the *desired outcome* (3.5)

~~3.11~~ 3.11

reporting framework

~~an~~ approach to document and disseminate findings from an *evaluation instrument* (3.6)