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### 3. Evaluation areas

This catalogue considers seven thematic areas of evaluation as particularly relevant to household energy and health interventions:

- A. Adoption;
- B. Market development;
- C. Performance;
- D. Pollution levels and personal exposure;
- E. Health and safety;
- F. Time and socio-economic impacts; and
- G. Environmental impacts.

Evaluation also tends to distinguish between process and outcome evaluation:

- *Process evaluation* assesses what interventions have been implemented, in how many homes, with whom, when and how. It measures the extent to which an intervention has been adopted, and the factors influencing the development of a viable market that will in turn influence the sustainability, replicability and scalability of a given intervention. Proc-

ess-related evaluation areas include *Adoption* and *Market development*.

- *Outcome evaluation* measures the extent to which an intervention achieves the specific outcomes desired by the beneficiaries, implementers or donors. Outcome-related evaluation areas include *Performance*, *Pollution levels and personal exposure*, *Health and safety*, *Time and socio-economic impacts* and *Environmental impacts*.

#### Presenting the methods

In this chapter, more than twenty methods are compiled in seven sections corresponding to the thematic areas of evaluation described above. For each thematic area, the purpose of evaluation is described under the heading *What does this type of evaluation tell us?*. This is followed by a set of key questions intended to provide the reader with a feel for the issues to be explored,

but not designed to be used directly in surveys. Challenges in undertaking the assessment are summarized under the heading *What are the challenges?*. Each section concludes with a table that lists available methods and rates their difficulty. As described in more detail below, a summary of each method, the method itself and any additional relevant information is provided on the CD-ROM accompanying this catalogue.

Some methods consist of a number of sections which cut across several thematic areas.

- Where feasible, these have been divided into individual components relating to different thematic areas of evaluation. For example, Winrock International's 'Questions on cooking practices' (Section B) and 'Fuel use' (Section D) represent parts of the same overall evaluation tool but are listed separately. It is possible to adapt and use certain sections of methods in isolation. It is, however, important to be aware of the whole tool as linkages exist between different sections. For example, IAP monitoring relies on a post-monitoring time-activity questionnaire for context and validation.
- Where methods cannot be divided into individual components they are duplicated under all sections to which they are relevant. For example, the three stove performance tests developed by the household energy and health team at the University of California at Berkeley (C3, C4, C5) are listed under both methods to evaluate performance and methods to evaluate environmental impacts.

### Identifier codes

Each of the methods included in this catalogue has been assigned an identifier code (e.g. D2). A, B, C, D, E and F refer to the seven thematic areas of evaluation described above. Generic evaluation methods that cut across several areas are marked Y. In addition, each of the different methods classified under the thematic areas of evaluation was assigned a number.

### Linking to the CD-ROM

The identifier code of each method corresponds to a folder in the accompanying CD-ROM. These folders contain further details including:

- Method summary: an overview of the method, contact information, comments on use in the field and an indication of resource requirements.
- Complete method: original survey, protocol or test method.
- Any further information relating to the method.






Not all of this information is available for each of the methods. For example, where no written protocol exists, only a method summary is provided. Where possible, generic evaluation methods and other materials are included in the CD-ROM in relevant folders.

### Recommended and additional methods

Where appropriate, this catalogue distinguishes between recommended methods and additional methods. Recommended methods have often been developed with a specific purpose in mind, have been employed by different organizations and are considered to be relatively well tested and standardized. In contrast, additional methods are often more general in nature.

### Rating methods

Methods in this catalogue are rated as follows:

-  Feasible for most organizations, including those with minimal evaluation experience and resources.
-  Feasible for organizations with some qualitative, quantitative and analytical research experience and resources. Specific training required.
-  Feasible for organizations with IAP monitoring devices and/or the expertise to analyse results. Specific training required.
-  Feasible for organizations with the above plus access to laboratory facilities.
-  Evaluation methods feasible only in partnership with technical specialists.

These ratings should be seen as a rough guide. Organizations will need to use the information provided in this catalogue at their own discretion to decide which methods are appropriate for their use.