

Comprehensive Lowered Emission Assessment and Reporting (CLEAR) Methodology for Cooking Energy Transitions

Clean Cooking and Climate Consortium (4C)

ETHOS, January 2025Sunday Breakout Session













Recap: Timeline

Finalization

Jul - Nov 2024

4C solicited ongoing feedback to refine methodology

This involved:

- Formal public commenting period
- Methodology revisions based on feedback

Submission & Approval

Nov 2024 - TBD

CLEAR is currently under review for approval and publication, starting with Gold Standard and Verra

ICVCM review pending publication

Planned submission to UNFCCC in the coming months!

Recap: Quantification of ERs

Methodology parameters are calculated differently for CTEC and non-CTEC projects and therefore are presented separately in the CLEAR methodology.

CTEC Project

Continuously measures fuel or energy consumption directly on all project technologies, in all project households.

Using built-in or external data loggers (also known as metering), including for electric cookstoves, LPG, ethanol, and biogas, or through fuel sales records.

Non-CTEC Project

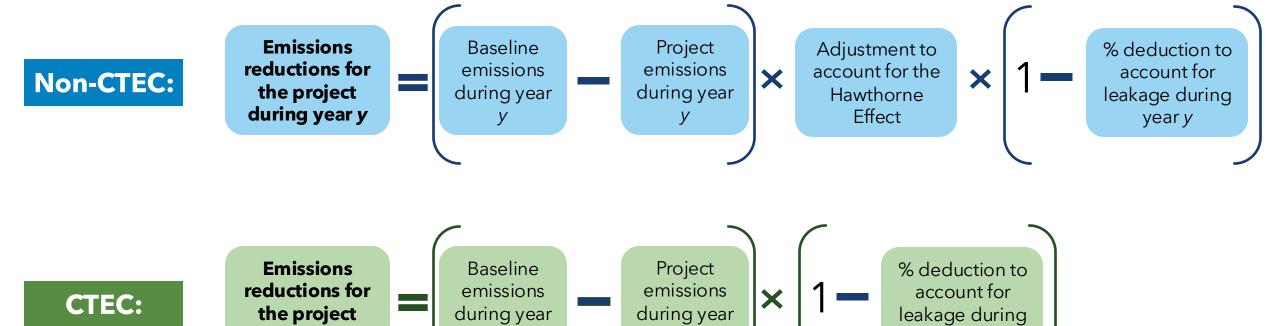
Does NOT track all project cookstoves through energy consumption data loggers or fuel sales records.

Recap: Quantification of ERs

during year

the project

during year y



leakage during

year y

Recap: CLEAR overview

- Adoption/usage/stacking for CTEC: All stoves in all households must be metered, and use that data to back calculate baseline, or use that data as part of the baseline/project KPT measurements
- Adoption/usage/stacking for non-CTEC: All must use project KPTs, adjusted for Hawthorne effect
- fNRB: Multiple MoFuSS options, TOOL30 disallowed
- **Emissions factors**: (1) Point of use and (2) Upstream (production, processing, transportation, and distribution)

Additional revisions made based on public feedback

CLEAR revisions

- Energy consumption: No survey-only option; KPTs required for all non-CTEC
- Baseline KPT caps and flags: Now global
- **Evolving baselines**: Captures mismatches between baseline and actual households; control household requirements removed
- "User" now defined
- Project technology day caps (90/75%) based on customer support activities
- Minimum project stove thermal efficiencies: 20% for griddle/plancha; 30% for charcoal; 25% for all other biomass

CLEAR revisions

- Additionality: Follow carbon-crediting program rules
- **Seasonality**: Baseline scenario must track relative fuel use at different times of the year, monitoring plan must incorporate and be justified on PICS
- Institutional and commercial stoves application
- Transportation included in upstream emissions
- Marginal fNRB placeholder added
- Artisanal stove requirements: 3 randomly selected samples of each model required for ISO and CCT testing



For more information on the CLEAR methodology and recent updates:

https://cleancooking.org/4C/methodology

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