

GUIDE TO FIELD TESTING PLAN OF REVISED REGIONAL PROPOSALS

IEEE Empower a Billion Lives is a competition that aims to support teams to develop innovative solutions and demonstrate them in target communities, to address the needs of the rapidly growing global energy access market.

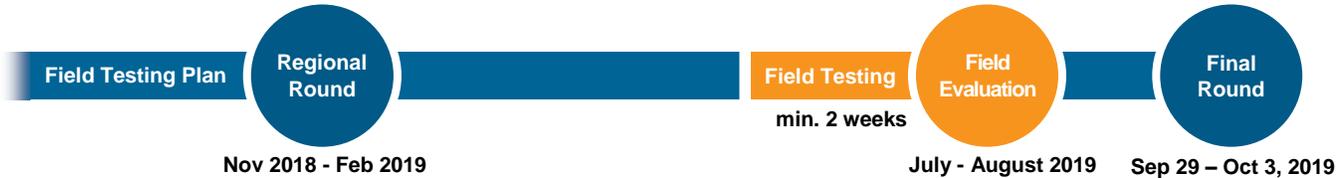
Teams that win an award on the Regional Rounds will be invited to perform a **minimum 2 week long Field Test** that demonstrates the promise of the solution in a target community of at least ten homes, in a location proposed by the team and agreed to by EBL organizers. Field Testing is a requirement to participate in the Global Final Round and an important input to the final evaluation process. Teams are encouraged to use their award funds from the Regional Rounds to fund the Field Testing, and are also encouraged to secure and use additional sources of funding as needed.

This document outlines the purpose and requirements of successful Field Testing Plan, which will be presented along with revised Regional Round proposals.

Each team participating in Regional Rounds will be responsible to include a **one (1) page plan**, outlining their plans for Field Testing. This concept outline should be an appendix to your revised proposal, which will be submitted ahead of your Regional Round. Field Testing can be done in any region, regardless of where the team is from or in which Regional Round the team participated. Teams participating in Track A (Commercially available solutions) can select and demonstrate their solution in any community where their solution has been operating.

Successful Field Testing Plan will address the following:

1. **Field Testing Timeline:** IEEE expects to send 2 to 3 expert judges to evaluate each Field Test in July through August 2019. Successful Field Testing Plan will explain how the Field Test will be operational and observable by August 2019.



2. **Identification of Target Community:** Describe how you will identify the community that hosts your Field Test. Ideally, your target community will be a predominantly off-grid (tier 0-1) village of 20 to 1000 households, and target households will be at the Base of the Economic Pyramid (i.e. average household purchasing power \leq \$1500/year) as detailed in the target community section of the [Competition Guide](#). If your community does not meet these targets, explain why and how you will demonstrate fulfilling the objectives of the competition.
3. **Field Testing Plan & Structure:** What exactly will you be testing? How will you test it?
4. **Field Test Goals & Evaluation of Goals:** What is the goal of your Field Test? How will you know if you've been successful? Please provide a testable hypothesis.
5. **Statement of Risks:** What risks might you encounter, and how will you mitigate those risks?

To assess the success of the solution, devices in the field will need to be equipped with independent data acquisition (DAQ) systems provided by EBL organizers. The goal of this is to independently measure and verify solution performance. Teams will be provided access to the recorded data for their own purposes. DAQ's will be selected in coordination with the teams on a case-by-case basis to accommodate the solution's requirements. We also expect that EBL judges will also visit the test sites, document any findings and conduct customer feedback interviews. The exact schedule will be agreed on after all the Regional Rounds are completed and all the finalists are selected. Successful Field Test Plans will account for both DAQs and judge visits.

If you have any questions, please visit the [Frequently Asked Questions section](#) on the competition website, or email us at billionlives@ieee.org.