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For those without their own SHS, the Energy Box allows for base-level electrification (Tier 1) at an affordable rate. These users also receive an Energy Box and connect to the local interconnected SHS microgrid, from which they can receive affordable electricity from the excesses generated in their neighbors' systems.

Rural Electrification Strategy in Rwanda reframed the 2018 access target reflecting the MTF findings: 70 percent of electrification through 31-35 percent on-grid access; 13-17 percent through systems Tier 2 access level; and 22% through Tier 1 and above access level.

One study constructed a bottom-up load profile at the household level for each tier of electricity access as set by the MTF, and the experiment was successfully tested in Rwanda, showing scalability .

A solar home system would qualify for Tier 1 or 2 (depending on its capacity). Tier 1 requires having access to a peak capacity of at least 1 Watt and basic energy services comprising a task light and a radio or a phone charger for four hours per day.

oThis project will aim for 68 MW of solar mini-grids to be installed in off-grid rural areas by 2030 (Tier 1); HH targeted for off-grid electrification through SHS (Tier 2): 1.5 m, equivalent to 250,000 connections per year.

Cover page: Solar home systems will benefit women and children in rural communities of Rwanda. Photo courtesy of Ignite Rwanda The Rwanda Stand-Alone Solar Market Update is one of a series of 14 national briefings published by the Africa Clean Energy (ACE) Technical Assistance Facility (TAF) to give stakeholders a snapshot of recent

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