5. Information for TA impact description

The information in the table below will be used to produce the CTCN TA Impact Description. The TA Impact description is a 2-page summary document for communication purposes. Please copy information from sections above and technical delivery reports as required.

Challenge: Approx. 500 characters with spaces	**Development of a Product Standard & Comparative Labelling for locally manufactured electric stoves** Ethiopia's electricity demand is growing. Electricity production is mainly based on hydro power which is vulnerable to the adverse effects of climate change on future water supply. Therefore, the government has developed targets to reduce energy consumption by increasing energy efficiency. Household appliances have been identified as a low hanging fruit, and locally manufactured electric stoves as a product with great improvement potential, not only regarding energy efficiency, but product design in general. Informed by experiences in other countries a standard and labelling programme has been selected as a policy approach to achieve these energy efficiency improvements.
CTCN Assistance: 2 to 4 bullet points. Approximately 450 characters with spaces	- selecting and equipping testing facilities for locally manufactured electric stoves - drafting the testing procedure proposing an administrative framework for testing - developing minimum energy performance standards (MEPS) and product standards to ensure that all equipment in the market will be energy efficient - formulating a communication strategy for transferring technology knowledge to local manufacturers and for informing the public about energy efficient stoves
Anticipated impact: 2 to 4 bullet points to summarise anticipated impact. Approximately 250 characters with spaces. As a minimum, please include one of the following: i) Quantity of greenhouse gas emissions reduced, avoided or sequestered; or ii) Number of people with increased capacity to adapt to the impacts of climate variability and change.	**Cumulative annual energy savings by 2030: 132 GWh.** ○ Direct impact on GHG emissions negligible as electricity production is based dominantly on hydro power both now and in future. ○ Efficient electric stoves + progressing electrification: enables switching from biomass to electric stoves; contributes positively to deforestation, cuts down particle emissions; reduces

	strain on the electricity supply system.
Linkages and contribution to NDC: 2 to 4 bullet points. Approximately 350 characters with spaces	This TA supports Ethiopia's Nationally Determined Contribution to - "Leapfrogging to modern and energy efficient technologies in transport, industry and building sectors", as stated in the national GHG Mitigation Plan - Reducing households' dependency on fuel wood and to increase energy access in rural areas thus reducing stress in the forest resources in line with the Climate Resilient Green Economy Strategy (CRGE). Energy efficient electric stoves, which forms the basis of Ethiopia's NDC, can become an attractive alternative to inefficient wood stoves creating health risks and burdening households with fuelwood gathering.
The narrative story: Approximately 1200 characters with spaces	Increasing energy efficiency in cooking by shifting to electric stoves and replacing inefficient wood stoves can make 20% contribution to Ethiopia's total potential for emission reduction annually in 2030 according to CRGE. Dependency on climate sensitive electric power supply further accentuates the need to boost energy efficiency. This TA supports the Ethiopian Energy Authority (EEA) and the National Designated Entity (NDE) of Ethiopia by providing research, instructions, bet practices and recommendations for the development of a Standards & Labelling (S&L) programme for locally manufactured electric stoves to ensure energy efficiency. This TA has developed an awareness raising and public communication strategy and communication plan to help EEA in effective campaigning to ensure effective implementation of the S&L programme.
Contribution to SDGs: Always include contribution to SDG 13, and to the extent possible, please include contribution to 2 other SDGs, describing the contribution with a few sentences for each SDGs concerned. A complete list of SDGs	SDG 1: End poverty in all its forms everywhere - Energy efficiency is a major contributor in the reduction of fuel poverty.

and their targets is available here: https://sustainabledevelopment.un.org/partnership/register/	SDG 7: Ensure access to affordable reliable, sustainable and modern energy for all - By 2030, double the global rate of improvement in energy efficiency: Energy efficiency will be improved in the buildings sector through energy efficient appliances. SDG 9: Build resilient infrastructure, promote inclusive and sustainable industrialization and foster innovation: - The standard and labelling programme will promote product innovation among local manufacturers to improve the performance and sustainability of electric stoves. SDG 13: Take urgent action to combat climate change and its impacts - Strengthen resilience and adaptive capacity to climate-related hazards and natural disasters in all countries: The long-term impact of reduced electricity consumption mitigates dependency on climate sensitive hydro-electricity. - Improve education, awareness-raising and human and institutional capacity on climate change mitigation, adaptation, impact reduction and early warning: Future awareness raising, in accordance with the strategy developed in this TA, informs consumers and manufacturers about the benefits of energy efficient appliances.

Note: Please see example of a TA Impact Description at the following link: https://www.ctc-n.org/sites/www.ctc-n.org/files/benin_a_ag_forestry.final_.pdf