

Presentation of the Fast Technical Assistance

The Fast Technical Assistance (FTA) is the Climate Technology Centre & Network (CTCN) short time response to requests referring to technology prioritisation, endogenous technologies assessment, policies and measures that are immediate priorities for the requesting country. FTA has duration **up to 2 months** and a total value typically **up to USD 15,000** (it may include a scoping mission, only if strictly necessary). The FTA is implemented by means of an international expert.

Guidelines:

- This Request Submission Form should be completed by the organisation requesting technical assistance from the Climate Technology Centre & Network (CTCN) in collaboration with the National Designated Entity (NDE) of the country in question
- The Form must be signed by the NDE. Please see updated contact list of NDEs here: <http://unfccc.int/ttclear/support/national-designated-entity.html>
- The Form can be submitted as a Word file containing a digital signature or as a signed and scanned PDF file in combination with an un-signed Word file

Requesting country:	Thailand
Fast Request title:	Technical assessment to enable readiness for up scaling investments in building energy efficiency for achieving NDC goals in Thailand
NDE	National Science Technology and Innovation Policy Office, Ministry of Science and Technology Mr. Surachai Sathitkunararat Assistant Secretary General +662 160 5432 surachai@sti.or.th
Request Applicant:	National Science Technology and Innovation Policy Office, Ministry of Science and Technology Mr. Surachai Sathitkunararat Assistant Secretary General +662 160 5432 surachai@sti.or.th

Climate objective:

- Adaptation to climate change
- Mitigation of climate change
- Combination of adaptation and mitigation of climate change

Geographical scope:

- Community level
- Sub-national
- National

If the request is at a sub-national level, please describe specific geographical areas (provinces, states, countries, regions, etc.).

Sectors:

Please indicate the main sectors related to the request:

- | | | | |
|---|---|---------------------------------------|---|
| <input type="checkbox"/> Coastal zones | <input type="checkbox"/> Early Warning and Environmental Assessment | <input type="checkbox"/> Human Health | <input checked="" type="checkbox"/> Infrastructure and Urban planning |
| <input type="checkbox"/> Marine and Fisheries | <input type="checkbox"/> Water | <input type="checkbox"/> Agriculture | <input type="checkbox"/> Carbon fixation |
| <input checked="" type="checkbox"/> Energy Efficiency | <input type="checkbox"/> Forestry | <input type="checkbox"/> Industry | <input type="checkbox"/> Renewable energy |
| <input type="checkbox"/> Transport | <input type="checkbox"/> Waste management | | |

CONTEXT OF THE ASSIGNMENT (up to half page):

The Government of Thailand, in collaboration with the CTCN as a Delivery Partner, are preparing a GCF Readiness proposal to support Thailand in achieving national targets for the building sector as defined in Energy Efficiency Plan of 2015, in NAMAs, and in Thailand's NDC submitted to the UNFCCC.

As per the NDC Road Map of Thailand, of the 115.6 million tonne reduction from BAU by 2030, 113 will be achieved through energy efficiency and use of renewable energy. Energy efficiency of buildings is one of the key strategies in achieving the reductions through energy efficiency.

Addressing GHG emission reductions from the building sector is imperative to meet the national targets. The national Building Energy Code (BEC) from 2009 serves as a vital regulation for the building sector as it defines the mandatory minimum energy standards for new buildings, yet to be constructed. Though the BEC standards have been mandated, the authorities have not been able to stimulate the building construction industry, project developers and investors in adopting these standards due to a lack of techno-economic recommendations on relevant cost-efficient technologies.

Alignment with national priorities :

Thailand submitted its Intended Nationally Determined Contribution (INDC) towards the Paris Agreement in October 2015. As defined in the INDC, Thailand intends to reduce its greenhouse gas emissions by 20% from the projected business-as-usual (BAU) level by 2030. An additional 5% reduction, 25% below BAU, would be achieved if external financial support is available. Similarly, Thailand submitted its NAMAs to the UNFCCC, pursuant to Cancun Agreement, that proposes action in the energy and transportation sectors to reduce emissions between 7% and 20% below the business as usual scenario in 2020.

For energy use, a substantial share of GHG emission reductions are expected to come from energy efficiency and conservation measures implemented in the building sector. The GHG reduction potential in the building sector is identified and assessed in the 2012 Technology Needs Assessments for Climate Change Mitigation/Adaptation in Thailand. Further, to achieve the national GHG emission reduction targets, the Energy Efficiency Plan (EEP) 2015-2036 outlines a number of measures for the building sector such as: i) key building sector strategies comprising the enforcement of energy conservation standards for designated factories and buildings; ii) a new construction Building Energy Code (BEC); and

iii) an energy labelling program for equipment and appliances.	
Reference document (please include date of document)	GCF Readiness Submission: Enabling readiness for up scaling investments in Building Energy Efficiency for achieving NDC goals in Thailand. Date of Submission: 26/01/2018
Nationally Determined Contribution (NDC)	Thailand submitted its Intended Nationally Determined Contribution (INDC) towards the Paris Agreement in October 2015. As defined in the INDC, Thailand intends to reduce its greenhouse gas emissions by 20% from the projected business-as-usual (BAU) level by 2030. An additional 5% reduction, 25% below BAU, would be achieved if external financial support is available.
Technology Needs Assessment	The GHG reduction potential in the building sector is identified and assessed in the 2012 Technology Needs Assessments for Climate Change Mitigation/Adaptation in Thailand
National Adaptation Plans	
Nationally Appropriate Mitigation Actions	Thailand is in the process of submitting a NAMA specifically for building sector to UNFCCC NAMA registry. The NAMA is entitled <i>Greening Thailand's Low-Income Housing</i> designed and implemented by National Housing Authority, Electricity Generating Authority of Thailand and UNEP.
Add others here as relevant	The Energy Efficiency Plan (EEP) 2015-2036 outlines a number of measures for the building sector such as: i) key building sector strategies comprising the enforcement of energy conservation standards for designated factories and buildings; ii) a new construction Building Energy Code (BEC); and iii) an energy labelling program for equipment and appliances.

OBJECTIVE OF THE FTA (up to 5,000 characters):

The FTA will contribute to the revision and re-submission of the GCF Readiness Proposal Enabling readiness for up scaling investments in Building Energy Efficiency for achieving NDC goals in Thailand.

In particular, the FTA will respond to comments / questions from the GCF Secretariat on the proposal and will result in the provision of text for inclusion in the revised submission.

SCOPE AND ACTIVITIES OF THE PROPOSED FTA (up to one page):

Activity 1: Technical Assessment

Under this activity the FTA will conduct an assessment of the proposed activities in the GCF Readiness proposal in order to compile information on:

- The respective shares of energy efficiency and renewable energy in the proposed 115.6 mt reduction in the NDC roadmap, and specifically the share of building energy efficiency, and
- Available methodologies to assess the financial parameters / effectiveness of available technologies relevant for new buildings in Thailand.

Deliverables:

- A maximum half page description and/or diagram on the expected contribution of energy efficiency and renewable energy to the NDC target including specific figures on the building

section

- A maximum five page overview of some of the available methodologies for costing energy efficiency technologies for new buildings
- A description of the methodology used for the estimations including references to supporting material

Activity 2: Institutional Assessment

Under this activity the FTA will examine the institutional context for implementation of the GCF Readiness proposal including:

- An overview of the institutional arrangements for enforcement of building regulations in Thailand and a summary of challenges in implementing the BEC in new buildings,
- A description of the roles of DEDE, NHA, EGAT vis-à-vis the BEC including a description of who will be responsible for achieving the building energy efficiency component of the NDC using the outputs.
- A summary of the role and operating procedures of the PCD

Deliverables:

- A maximum one page text on the institutional arrangements for enforcement of building regulations in Thailand describing the roles of DEDE, NHA, EGAT and specifying the responsible agency,
- A maximum one page summary of challenges in implementing the BEC in new buildings,
- A maximum two paragraphs on the PCD, and
- A list of any relevant reference material.

Activity 3: Evaluation and communication

- The CTCN FTA Closure report will be completed at the end of the FTA (a template will be provided).

Deliverable:

- FTA Closure report

GENERAL TIME SCHEDULE OF EXPERT AND ACTIVITY/DELIVERY PLAN:

The work will be carried out over a period of one month.

Monitoring and impact of the assistance:

By signing this request, I affirm that processes are in place in the country to monitor and evaluate the technical assistance provided by the CTCN. I understand that these processes will be explicitly identified in the CTCN Response Plan and that they will be used in the country to monitor the implementation of the technical assistance following standard CTCN procedures.

Signature:

NDE name: Mr. Surachai Sathitkunarath

Date: May 2, 2012

Signature: 

THE COMPLETED FORM SHALL BE SENT TO THE CTCN@UN.ORG