

Readiness Proposal

**with the Climate Technology Centre and Network (CTCN) through UNEP
for Kingdom of Thailand**

09 September 2019 | Strategic Frameworks



**GREEN
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Readiness and Preparatory Support Proposal Template

Programme title:	Enabling readiness for up scaling investments in Building Energy Efficiency for achieving NDC goals in Thailand
Country:	Thailand
National designated authority:	Office of Natural Resources and Environmental Policy and Planning
Implementing Institution:	UN Environment Programme – The Climate Technology Centre and Network (CTCN)
Date of first submission:	26 January 2018
Date of current submission / version number	22 August 2019 V.4



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How to complete this document?

- Please visit the [Empowering Countries](#) page of the GCF website to download the Readiness Guidebook and learn how to access funding under the GCF Readiness and Preparatory Support Programme.
- This document should be completed by National Designated Authorities (NDA) or focal points with support from their Delivery Partners where relevant. Once completed, this document should be submitted to the GCF by the NDA or focal point to countries@gcfund.org.
- Please be concise. If you need to include any additional information, please attach it to the proposal.
- If the Delivery Partner implementing the Readiness support is not a GCF Accredited Entity for project Funding Proposals, please complete the Financial Management Capacity Assessment (FMCA) questionnaire and submit it prior to or with this Readiness proposal. The FMCA is available for download at the [Library](#) page of the GCF website.

Where to get support?

- If you are not sure how to complete this document, or require support, please send an e-mail to countries@gcfund.org.
- You can also complete as much of this document as you can and then send it to countries@gcfund.org, copying both the Readiness Delivery Partner and the relevant GCF Country Dialogue Specialist and Regional Advisor. Please refer to the [Country Profiles](#) page of the GCF website to identify the relevant GCF Country Dialogue Specialist and Regional Advisor.
- We will get back to you within five (5) working days to acknowledge receipt of your submission and discuss the way forward.

Note: Environmental and Social Safeguards and Gender

Throughout this document, when answering questions and providing details, please make sure to pay special attention to environmental, social and gender issues, particularly to the situation of vulnerable populations, including women and men. Please be specific about proposed actions to address these issues. Consult Annex IV of the Readiness Guidebook for more information.

Please submit the completed form to:

countries@gcfund.org

Please use the following naming convention for the file name:

"GCF Readiness Proposal-Thailand-190822"



1. SUMMARY	
Country submitting the proposal	<p>Country name: Thailand</p> <p>Name of institution representing NDA or Focal Point: Office of Natural Resources and Environmental Policy and Planning (ONEP)</p> <p>Name of contact person: Dr. Natthanich Asvapoositkul</p> <p>Contact person's position: Director of Climate Change Management and Coordination Division</p> <p>Telephone number: +6622656692</p> <p>Email: gcfundthailand@gmail.com</p> <p>Full office address: 60/1 Rama VI Road, Phayathai, Bangkok 10400 Thailand</p> <p>Additional email addresses that need to be copied on correspondences: natthan.asv@gmail.com; kittisak-onep@hotmail.com; drjoy@onep.go.th</p>
Date of initial submission	26 January 2018
Last date of resubmission	22 August 2019
Version number	V.4
Which institution will implement the Readiness and Preparatory Support project?	<p><input type="checkbox"/> National designated authority</p> <p><input checked="" type="checkbox"/> Accredited entity</p> <p><input checked="" type="checkbox"/> Delivery partner</p> <p>Please provide contact information if the implementing partner is not the NDA/focal point</p> <p>Name of institution: UN Environment Programme – The Climate Technology Centre and Network (CTCN)</p> <p>Name of official: Rose Mwebaza</p> <p>Position: Director</p> <p>Telephone number: +4545335380</p> <p>Email: mwebaza@un.org</p> <p>Full office address: UNFCCC Climate Technology Centre and Network - UN City, 2100 Copenhagen, Denmark</p> <p>Additional email addresses that need to be copied on correspondences: ermira.fida@un.org; unenvironment-gcf@un.org; manfredi.caltagirone@un.org; jaimewebbe@un.org; jonathan.duwyn@un.org</p>
Title of the Readiness support proposal	Enabling readiness for up scaling investments in Building Energy Efficiency for achieving NDC goals in Thailand
Type of Readiness support sought	<p>Please select the relevant GCF Readiness activity area below (click on the box):</p> <p><input type="checkbox"/> I. Country capacity for engagement with GCF</p> <p><input checked="" type="checkbox"/> II. Country programming process</p> <p><input type="checkbox"/> III. Direct access to climate finance</p> <p><input type="checkbox"/> IV. Climate finance accessed</p> <p><input type="checkbox"/> V. Formulation of national adaptation planning and/or other adaptation planning processes</p>



<p>Brief summary of the request</p>	<p>As per the NDC Road Map of Thailand, of the 115.6 million tonne GHG emission reduction from business as usual (BAU) by 2030, 113 million tonne reduction will be achieved through energy efficiency and use of renewable energy. It is estimated that 26.1 million tonne reduction in GHG emissions can be achieved through buildings. The 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.</p> <p>To date building audits have been conducted and BEC auditors have been trained, however benchmarks have not been set and technology options to meet standards still need to be assessed for efficacy and cost-effectiveness. The national authorities have not been able to stimulate the local authorities and the building construction industry, project developers and investors in adopting BEC standards due to a lack of techno-economic recommendations on relevant cost-efficient technologies and lack of human capacity to implement the BEC standards.</p> <p>To address these barriers, the aim of this proposal is to support Thailand in achieving national targets for energy efficiency in the building sector through defining energy and GHG emission baselines and benchmarks, conducting energy audits, identifying potential technologies for BEC compliance including their financial aspects, developing a Measurement, Report and Verification framework for GHG emission reductions and energy consumption for existing and new buildings and building the capacity of representatives of different stakeholder groups in the BEC standards.</p>		
<p>Total requested amount and currency</p>	<p>USD 244,120</p>	<p>Anticipated duration</p>	<p>12 months</p>



Has the country received or is expecting to receive other Readiness and Preparatory Support funding allocations (including adaptation planning) from GCF or other donors?

Yes

No

Readiness activities

Title: Advancing Thailand's Access to GCF

Readiness area: Strategic frameworks

Delivery partner: GGGI

Date: 9 February 2018

Amount: US\$ 340,000

Title: Scaling up Thailand's climate finance readiness

Readiness area: Strategic frameworks

Delivery partner: GIZ

Date: 29 January 2018

Amount: EUR 555,211

Title: GCF Readiness and Preparatory Support for Thailand

Readiness area: NDA strengthening

Delivery partner: GIZ

Date: 3 July 2015

Amount: EUR 258,570

Concept notes

Title: Enhancing Climate Resilience in Thailand through Effective Water Management and Sustainable Agriculture

AE: UNDP

Date: 21 September 2016

2. BACKGROUND

The objective of this proposal is to support Thailand in achieving national targets for energy efficiency in the building sector as defined in Energy Efficiency Plan of 2015, in NAMAs, and in Thailand's NDC.

As per the NDC Road Map of Thailand, of the 115.6 million tonne reduction from business as usual (BAU) by 2030, 113 million tonne reduction will be achieved through energy efficiency and use of renewable energy. Energy efficiency of buildings is one of the key strategies in achieving these reductions, as acknowledged in the emphasis on building codes in Thailand's Country Program on climate change¹. In particular, it is estimated that 26.1 million tonne reduction can be achieved through buildings (renewable energy 2 million tonne reduction, energy efficiency 18 million tonne reduction and sustainable building materials and effective construction 6.1 million tonne reduction).

Given that addressing GHG emission reductions from the building sector is imperative to meet Thailand's 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. Energy performance of existing buildings is based on voluntary participation. Yet, retrofitting of existing buildings represents a significant potential for cost-efficient energy and GHG emission reductions.

Though the BEC standards have been mandated, the national authorities have not been able to stimulate the local authorities and 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 and lack of human capacity to implement the BEC standards. To date building audits have been conducted and BEC auditors have been trained, however benchmarks have not been set and technology options to meet standards still need to be assessed for efficacy and cost-effectiveness.

¹ Climate Change Management and Coordination Division, office of Natural Resources and Environmental Policy and Planning (2017): Thailand Country Programme on Climate Change

To address these barriers, this GCF Readiness Proposal will deliver the following outputs related to five building types as defined in the BEC: office, hotel, department store, medical center and condominium with floor area exceeding 2,000 m², considering six main areas of performance indicators as defined in the BEC, building envelope, lightning system, air conditioning system, hot water generation system, renewable energy utilization and whole building performance:

1. Further development of existing energy and GHG emission baselines and benchmarks for the 5 building types, considering new buildings;
2. A technical analysis of non-implemented, yet available and accessible technologies for BEC compliance in the 5 building types, considering new buildings;
3. A financial analysis of non-implemented, yet available and accessible technologies for BEC compliance in 5 building types, considering new buildings;
4. Energy audits of the five building types, considering existing buildings;
5. A Measurement, Report and Verification framework for GHG emission reductions and energy consumption for existing and new buildings; including monitoring and communication materials;
6. Capacity building of representatives of stakeholder groups such relevant government agencies, local authorities, energy efficiency industries, building developers, designer and consulting companies, architects, engineers, technology providers, building owners, project developers, banks and investors in the BEC standards through their involvement in the project activities; and disseminating the results of the project to a wider audience. The Thailand Green Building Council will be included in the project consultations.

The outcomes of the project will support:

- The gathering of baseline data and standards and proposals for local bylaws to facilitate better monitoring and enforcement of the BEC
- The development of MRV systems to assess and report on the climate impact of BEC implementation;
- Capacity building among developers, architects, and construction industry to select and implement technologies to conform to BEC requirements;
- The expansion of the BEC to cover retrofits of existing buildings through the establishment of baselines and standards;
- An enhanced enabling environment for investments in green buildings, including through two related NAMAs ‘Greening Thailand’s Government Buildings’ and ‘Greening Thailand’s Low-Income Housing’.

The Climate Technology Centre and Network (CTCN) has been selected as the delivery partner for this proposal in order to access the skills and expertise of its 480 Network Members of whom 120 have particular expertise in building and urban planning. Furthermore, engaging the CTCN supports the call for ‘developing country Parties to seek support from the Climate Technology Centre and Network to develop and submit technology-related projects...to the operating entities of the Financial Mechanism...’, as per the Linkages Decision adopted at the twenty-fourth meeting of the Conference of the Parties to the UNFCCC.

	Sub-Outcome 6.2: Development of a technical assistance impact description document.			<p>Activity 6.2.1: Produce a one-page description of intended outcomes and impacts from this technical assistance, drafted at initiation of implementation and revised at closure, using the CTCN template (only filling section 5 of the template) located at: https://www.ctc-n.org/technical-assistance/introduction.</p> <p>Deliverable 6.2.1: Technical assistance impact description document.</p>	X											
	Sub-Outcome 6.3: Development of a monitoring and evaluation plan.			<p>Activity 6.3.1: Prepare a monitoring and evaluation plan, identifying all relevant indicators as specified in the TA Closure and Data Collection Report as well as other specific, measurable, achievable, relevant, and time-bound indicators suitable to monitor Outputs and Activities. This template is available at: https://www.ctc-n.org/technical-assistance/introduction.</p> <p>Deliverable 6.3.1: Monitoring and evaluation plan.</p>	X											
	Sub-Outcome 6.4: Development of a CTCN technical assistance closure report.			<p>Activity 6.4.1: Produce a technical assistance 'Closure and Data Collection Report' using the CTCN template available at: https://www.ctc-n.org/technical-assistance/introduction.</p> <p>Deliverable 6.4.1: CTCN technical assistance closure and Data Collection report.</p>											X	



4. ADDITIONAL INFORMATION (ONLY FOR ADAPTATION PLANNING SUPPORT)

This section is only to be completed when seeking support for formulation of national adaptation plans and/or other adaptation planning processes. Please see Part 3 Section 4 in the Readiness Guidebook.

5. BUDGET, PROCUREMENT, IMPLEMENTATION, AND DISBURSEMENT

5.1 Budget plan

Please complete the Budget Plan in Excel using the template available in the [Library](#) page of the GCF website.

5.2 Procurement plan

Please complete the Procurement Plan in Excel using the template available in the [Library](#) page of the GCF website. For goods, services, and consultancies to be procured, please list the items, descriptions in relation to the activities in section 2, estimated cost, procurement method, relevant threshold, and the estimated dates. Please include the procurement plan for at least the first tranche of disbursement requested below and provide a full procurement plan for the entire duration of the implementation period if available at this stage.

5.3 Disbursement schedule

Please specify the proposed schedule for requesting disbursements from the GCF. For periodicity, specify whether it's quarterly, bi-annually or annually only.

UN Environment, as the Delivery Partner for this Readiness and Preparatory Support Proposal, will submit requests for disbursement for approved proposals to the GCF in accordance with the Framework Readiness and Preparatory Support Grant Agreement between the GCF and UN Environment. Disbursement requests will be signed by the authorized representative of the UN Environment and will include details of the bank account into which the grant will be deposited. UN Environment, the Delivery Partner for this R&P Support Proposal for Thailand, will administer the grant disbursed by the GCF in accordance with UN Environment's regulations, rules, and procedures including maintenance of records of grant, disbursements and expenditure. UN Environment will follow the disbursement schedule as per the Framework Readiness and Preparatory Support Grant Agreement between the GCF and UN Environment.

Readiness Proposal that falls within a Framework Agreement with the GCF

Disbursements will be made in accordance to Clause 4 "*Disbursement of Grants*" and Clause 5 "*Use of Grant Proceeds by the Delivery Partner*" of the Framework Readiness and Preparatory Support Grant Agreement entered into between GCF and UN Environment Programme on *11 October 2016*. The Delivery Partner is entitled to submit 2 request(s) for disbursement each year; and additionally, for proposals approved between the 2 request dates, an Interim Request for Disbursement may be submitted within 30 days of the date of the notification of the relevant approval by the Fund.

Disbursement	Amount	Date
First disbursement	\$171,500	Within 30 days of approval
Third disbursement	\$30,500	After twelve months

6. IMPLEMENTATION ARRANGEMENTS AND OTHER INFORMATION

6.1 Implementation map

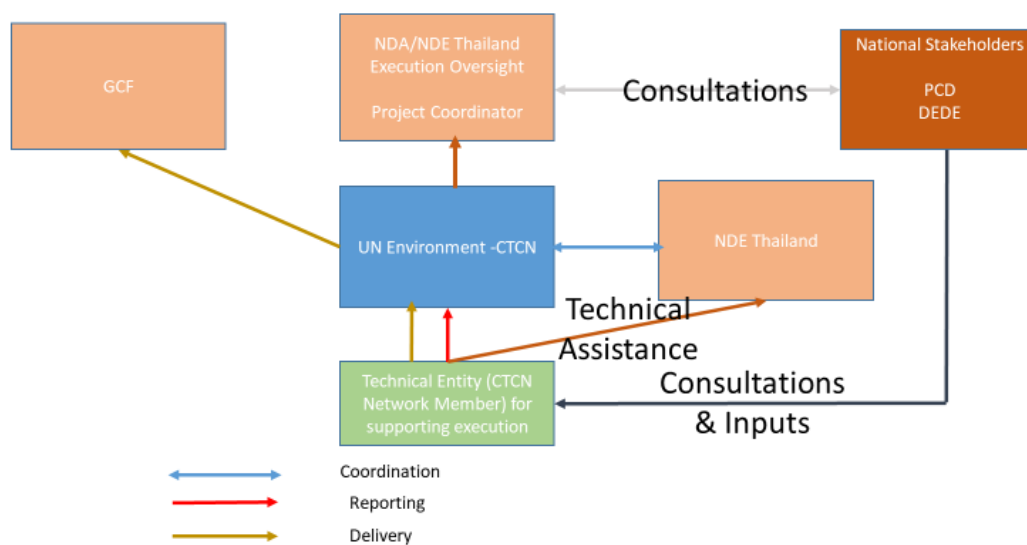
Please describe how funds will be managed by the NDA and/or the Readiness Delivery Partner.

UN Environment will manage the funds for the activities under this readiness agreement. UN Environment will agree on a plan with the NDA of Thailand to monitor the implementation of the activities using the grant proceeds. However, UN Environment will be responsible for the implementation of the activities under this readiness and preparatory support proposal.

The selected implementing entity from the Climate Technology Network will report to CTCN/UN Environment as per their contractual arrangement and in line with UN rules and regulations. They will produce regular progress and financial reports and will submit deliverables to CTCN/UN Environment. Funds will only be released if and when the deliverables are satisfactory and cleared by CTCN/UN Environment. They will return any unspent funds within ninety days of expiry or notice of termination of the CTCN/UN Environment.

The UNFCCC country focal points for GCF (NDA) and technology (NDE) will provide active support to the implementer in the execution of this technical assistance. Their roles as country focal points will include, but not be limited to: ensuring the activities associated with the implementation of this technical assistance are aligned with national climate priorities; promote and engage with key stakeholders as identified by the implementer; promote and present this technical assistance in climate change-related events; and participate in CTCN events and in national workshops affiliated with this technical assistance, if required. They will also be expected to provide guidance and review any relevant documents produced and will be kept apprised of the progress of the technical assistance.

The implementation map below summarizes the different interactions between the different parties involved in this technical assistance:



CTCN processes before the selection of the implementer (described in the implementation map)

The CTCN process for managing technical assistance is the following: requests for technical assistance can be prepared by any applicant organization from a developing country, but all requests must be submitted by the CTCN NDE (national focal point in the concerned country). Once submitted, all requests submitted by developing countries are assessed as per eligibility, balancing and prioritization criteria approved by the CTCN Advisory Board. The three eligibility criteria are the following: 1) The support provided will contribute to increased resilience and/or mitigate emissions and is aligned with national plans; 2) The support will enhance endogenous capacities; and 3) Processes are in place in the requesting country to monitor and evaluate any support provided (that is, project accountability is ensured). Balancing criteria are looking at inter and intra-regional a geographical balance (with a preference for requests submitted by LDCs and other highly vulnerable and low capacity countries; balance between adaptation and mitigation objectives, and balance between

various types of support spanning the technology cycle. Prioritization criteria consider several elements that demonstrate project strength and potential for success, including the promotion of endogenous capacities and appropriate technologies, potential for scale up, for South-South cooperation, for leveraging public and private financing, for creating social, economic and social benefits, promoting gender equality etc.

Once a request is deemed eligible and prioritized, the CTCN selects the best expertise among its consortium partners to develop a response plan. An expression of interest will be circulated to all consortium partners requesting details on the proposed approach, expertise and examples of similar projects. Based on the expressions of interest received, the criteria for selection are: Relevant technical expertise, Experience and network in national context, Relevant language capacity, Response Planning track record, Representative use of the consortium partners in Response Planning and Feedback/ preference from the NDE. The evaluation of the above criteria will be conducted in a transparent manner by CTCN staff and Director with the justification for selection recorded in CTCNs project dashboard.

Based on the discussion with the NDE and request proponent and feedback from the CTCN, the consortium partner develops the response plan. Once an advanced version is prepared, it is presented to CTCN's director and the NDE for signature. Once the response plan is signed, the contracting of the implementer starts.

Overall financial management and procurement of goods and services under this readiness and preparatory support proposal will be guided by UN Environment's regulations, rules, policies and procedures, as well as its programme manual. Further, procurement of goods and services will follow the general principles stated under clause 7 of Framework Readiness and Preparatory Support Grant Agreement (Framework Agreement) between Green Climate Fund (GCF) and UN Environment. UN Environment will comply with its obligation under clause 7(a) of the Framework Agreement, which states "The procurement of Goods and Services for Approved Readiness Support Proposals, whether by the Delivery Partner or by a third party, shall be done in accordance with the rules, policies and procedures of the Delivery Partner."

For this readiness and preparatory support proposal, services of a technical nature will be recruited, or acquired, and directly managed by CTCN through UN Environment, in consultation with the National Designated Entity (NDE) to the CTCN and GCF's National Designated Authority (NDA) of the Kingdom of Thailand. Recruitment and management of consultants will be in accordance with UN Environment rules, policies and procedures.

6.2 Risks, monitoring and evaluation (M&E), and other relevant information

Risk	Mitigation Action
Delayed implementation of the proposed readiness activities	During the preparation phase of the proposed GCF Readiness support activities, implementation partners have been initially identified, and the proposed implementation schedule will be reviewed and updated before commencement of the actual implementation.
Low level participation from local authorities, energy efficiency industries, building developers, designer and consulting companies, architects, engineers, technology providers, building owners, project developers, banks and investors	The project will involve key players from the inception phase, and disseminate latest updates on progress of the GCF readiness support activities through appropriate communication channels in Thailand.
Lack of data to complete the analytical work	Close collaboration with municipal and national government agencies will be established in order to ensure access to relevant data.

The project will comply with the UN Environment standard monitoring, reporting and evaluation procedures. Reporting requirements and templates are an integral part of the UN Environment legal instrument to be signed by the implementing entity and UN Environment.

The CTCN will closely work with NDA Thailand in the implementation and keep it regularly informed through UNFCCC country focal points for technology (NDE). The international expert entity will closely work with NDE and Technology Manager, who will be responsible the execution of the technical assistance. The NDA, along with NDE, will include, but not be limited to: ensuring the activities associated with the implementation of this technical assistance are aligned with national climate priorities; promote and engage with key stakeholders the



DEDE, EGAT and the PCD⁵ and representatives of other relevant stakeholder groups, as identified by the implementer; promote and present this technical assistance in climate change-related events; and participate in CTCN events and in national workshops affiliated with this technical assistance, if required. CTCN along with NDA/NDE will appoint a project coordinator located in the country to support NDE and NDA to ensure execution of project by the implementer and closely coordinate with CTCN Technology Manager.

The Department of Energy Development and Efficiency DEDE under the Ministry of Energy (MoEN) has a responsibility to promote, support and disseminate knowledge and understanding to all stakeholders concerned⁶ and to act as a regulator and is responsible for implementing, supervising and regulating policies and provisions to designated consumers and buildings. National Housing Authority (NHA) does not play any role in enforcing BEC in Thailand as NHA is only responsible for the housing sector. Thailand Electricity Generating Authority (EGAT) does not enforce the BEC code but plays a significant role in reporting the compliance to BEC and reporting back same as part of NDC. The regulations for the government buildings are under the power of Pollution Control Department (PCD). DEDE is the regulatory body for enforcing BEC, however building approvals are not part of DEDE mandate - the mandate to grant building permissions belongs to the Local Authority and works under the Ministry of interior. The Office of the NDE Thailand 'National Science Technology and Innovation Policy Office' under the Ministry of Science and Technology will disseminate the findings of this project. Therefore, the findings of the project are relevant for the work of DEDE, EGAT, PCD, Ministry of Science and Technology and local authorities.

⁵ PDC Pollution Control Department is a government agency that has experience with procurement of eco-friendly products and services.

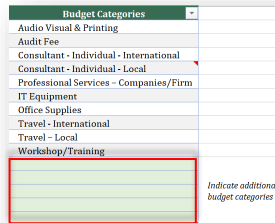
⁶ www.2e-building.com

Readiness and Preparatory Support Budget and Procurement Plan

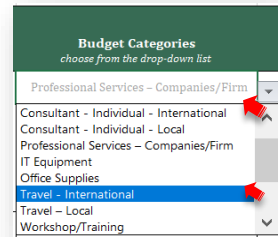
Readiness Grant Budget Preparation Guidelines

The following considerations are important when completing the budget:

1. Before preparing the Readiness and PPF budget, please read the full guidance on our website (<https://www.greencimate.fund/how-we-work/empowering-countries>).
2. You can select the appropriate budget categories from the dropdown list in the budget plan: →
3. To insert additional rows, right click on the row number below where you wish to insert the new row and choose INSERT.
4. Additional budget categories may be added by manually typing them on the Budget Category sheet. : ↓



A screenshot of a dropdown menu titled "Budget Categories" with the instruction "choose from the drop-down list". The menu lists various categories: Audio Visual & Printing, Audit Fee, Consultant - Individual - International, Consultant - Individual - Local, Professional Services - Companies/Firm, IT Equipment, Office Supplies, Travel - International, Travel - Local, and Workshop/Training. A red box highlights the bottom three rows, with a note "Indicate additional budget categories".



A screenshot of a dropdown menu titled "Budget Categories" with the instruction "choose from the drop-down list". The menu lists various categories: Professional Services - Companies/Firm, Consultant - Individual - International, Consultant - Individual - Local, Professional Services - Companies/Firm, IT Equipment, Office Supplies, Travel - International, Travel - Local, and Workshop/Training. A red arrow points to the "Travel - International" option.

Project Management Cost:

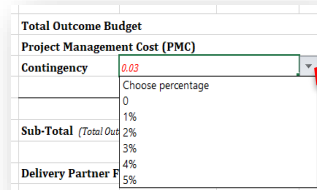
Project management costs (PMC) are the direct administrative costs incurred to execute a project. They should cover only incremental costs incurred due to the GCF contribution. In most cases, these costs are directly related to the support of a dedicated project management unit (PMU) which manages the day to day execution related activities of the project.

General Principles for PMC costs:

1. The percentage of PMC financed by GCF should not be more than the percentage share of the overall budget financed by GCF
2. PMC budget thresholds: Up to 7.5 per cent of total activity budget.
 - > PMC exceeding 7.5 per cent for the readiness (including NAPs) proposals, and PPF proposals, up to \$ 3 million will require detailed documentation and justification supporting the entire PMC budget.
 - > The PMC should be shown as a separate component in the project budget. A detailed breakdown of PMC should be provided by budget category.
 - > Indicative list of eligible project management costs:
 - > **Project staffing and consultants:** Project manager, Project Assistant, Procurement personnel, Finance personnel & Support/admin. Personnel
 - > **Other direct costs:** Office equipment, Mission related travel cost of the PMU, Project management systems and information technology, Office supplies, Audit cost

Contingency :

1. Select the appropriate % of Contingency Budget from the dropdown list : ↓



A screenshot of a dropdown menu for "Contingency" with the instruction "Choose percentage". The menu lists percentages: 0, 1%, 2%, 3%, 4%, and 5%. A red arrow points to the 0% option. The table also shows "Sub-Total (Total Out)" and "Delivery Partner" with their respective percentages.

2. Contingency budget for unforeseen costs arising during the project implementation should not be included in the outcome budget separately.
3. Contingency budget must be used for any unforeseen programme (output level) cost that is unrelated to implementation/service fee.
4. Any use of contingency must be reported to and agreed by the GCF Secretariat in writing in advance provided with justifications that are acceptable to the GCF
5. If you get to the end of the project and you haven't spent Contingency, you can't increase the scope of the project or buy some more equipment to use it up.
6. The Budget Notes sheet should be used to record explanations, further details or cost breakdowns for individual lines

5.1 Budget Plan

Please add rows for Outcomes, Outputs and Cost Categories as required. Additional budget categories may be added by manually typing them on the Budget Category sheet.

Detailed Budget (in US\$)							Disbursement Plan				
Outcomes	Budget Categories <small>choose from the drop-down list</small>	Unit	# of Unit	Unit Cost	Total Budget <small>(per budget category)</small>	Total Budget <small>(per sub-outcome)</small>	Total Budget <small>(per outcome)</small>	6m	12m	18m	
1. Outcome: Energy and GHG baselines and consumption benchmarks in place for each building type of new, yet to be constructed buildings, covered in BEC	1.1 Sub-outcome: Assessment of available existing energy consumption data and methodology	Consultant - Individual - International	W/Day	3	500.00	1,500.00	5,000.00	5,000.00			
		Consultant - Individual - Local	W/Day	14	250.00	3,500.00					
	1.2 Sub-outcome: Energy and GHG emissions baselines and benchmarks for	Consultant - Individual - International	W/Day	10	500.00	5,000.00	7,500.00	7,500.00			
		Consultant - Individual - Local	W/Day	10	250.00	2,500.00					
	1.3 Sub-outcome: A simulation and parametric run to design energy and GHG emissions benchmarks.	Consultant - Individual - International	W/Day	7	500.00	3,500.00	8,000.00	33,500.00	8,000.00		
		Consultant - Individual - Local	W/Day	6	250.00	1,500.00					
		Travel - International	Trip	1	2,500.00	2,500.00					
		Travel - Local	Trip	1	500.00	500.00					
	1.4 Sub-outcome: Validation of the established energy and GHG baselines and energy benchmarks for the five building types.	Consultant - Individual - International	W/Day	3	500.00	1,500.00	13,000.00	13,000.00			
		Consultant - Individual - Local	W/Day	6	250.00	1,500.00					
		Travel - International	Trip	1	2,500.00	2,500.00					
		Travel - Local	Trip	1	500.00	500.00					
		Workshop/Training	Workshop	2	2,500.00	5,000.00					
		Workshop/Training	Workshop material and catering	2	1,000.00	2,000.00					
2. Outcome: Technology assessment for five buildings types within the BEC framework	2.1 Sub-outcome: Long list of relevant technologies with	Consultant - Individual - International	W/Day	5	500.00	2,500.00	4,000.00		4,000.00		
		Consultant - Individual - Local	W/Day	6	250.00	1,500.00					
	2.2 Sub-outcome: Short list of relevant technologies with BEC compliance.	Consultant - Individual - International	W/Day	20	500.00	10,000.00	20,000.00		20,000.00		
		Consultant - Individual - Local	W/Day	20	250.00	5,000.00					
		Travel - International	Trip	1	4,000.00	4,000.00					
	2.3 Sub-outcome: Workshop to disseminate technology assessment results.	Travel - Local	Trip	1	1,000.00	1,000.00	11,500.00		11,500.00		
		Consultant - Individual - International	W/Day	3	500.00	1,500.00					
		Consultant - Individual - Local	W/Day	8	250.00	2,000.00					
		Travel - International	Trip	1	2,500.00	2,500.00					
		Travel - Local	Trip	1	500.00	500.00					
	Workshop/Training	Workshop	1	2,000.00	2,000.00						
	Workshop/Training	Workshop material and catering	1	3,000.00	3,000.00						
3. Outcome: Financial assessment for new buildings	3.1 Sub-outcome: Energy performance	Consultant - Individual - International	W/Day	20	500.00	10,000.00	12,500.00		12,500.00		
		Consultant - Individual - Local	W/Day	10	250.00	2,500.00					
	3.2 Sub-outcome: Assessment of financial aspects of technology options.	Consultant - Individual - International	W/Day	10	500.00	5,000.00	12,500.00		12,500.00		
		Consultant - Individual - Local	W/Day	10	250.00	2,500.00					
		Travel - International	Trip	1	4,000.00	4,000.00					
	3.3 Sub-Outcome: Workshop to present recommended technology options.	Travel - Local	Trip	1	1,000.00	1,000.00	23,000.00		23,000.00		
		Consultant - Individual - International	W/Day	4	500.00	2,000.00					
		Consultant - Individual - Local	W/Day	12	250.00	3,000.00					
		Travel - International	Trip	1	2,500.00	2,500.00					
		Travel - Local	Trip	1	500.00	500.00					
	Workshop/Training	Workshop	1	12,000.00	12,000.00						
	Workshop/Training	Workshop material and catering	1	3,000.00	3,000.00						
4. Outcome: Energy audit of five building types: Office, Medical Center, Hotel, Department store and	4.1 Sub-Outcome: Energy audits for technology recommendations for retrofitting existing buildings.	Consultant - Individual - International	W/Day	15	500.00	7,500.00	25,000.00		25,000.00		
		Consultant - Individual - Local	W/Day	30	250.00	7,500.00					
		Travel - International	Trip	1	4,000.00	4,000.00					
		Travel - Local	Trip	1	1,000.00	1,000.00					
	4.2 Sub-Outcome: Simulation model	Office Supplies	Hardware Expenses		1	5,000.00	5,000.00				
		Consultant - Individual - International	W/Day	15	500.00	7,500.00	7,500.00		7,500.00		
5. Outcome: MRV framework for existing and new building types within the BEC framework	5.1 Sub-Outcome: Streamlining of data for developing an identification of key indicators.	Consultant - Individual - International	W/Day	5	500.00	2,500.00	7,500.00			7,500.00	
		Consultant - Individual - Local	W/Day	20	250.00	5,000.00					
	5.3 Sub-Outcome: Development of a draft MRV framework for	Consultant - Individual - International	W/Day	4	500.00	2,000.00	4,000.00		2,000.00	2,000.00	
		Consultant - Individual - Local	W/Day	8	250.00	2,000.00					
	5.4 Sub-Outcome: Stakeholder consultation to finalise the MRV framework for five building types.	Consultant - Individual - International	W/Day	2	500.00	1,000.00	6,000.00		5,000.00	1,000.00	
		Consultant - Individual - Local	W/Day	20	250.00	5,000.00					
		Consultant - Individual - International	W/Day	1	500.00	500.00					
		Travel - International	Trip	1	2,500.00	2,500.00					
		Travel - Local	Trip	1	500.00	500.00					
		Workshop/Training	Workshop	1	2,000.00	2,000.00				10,000.00	
	Workshop/Training	Workshop material and catering	1	2,000.00	2,000.00						
6. Outcome: Monitoring and communication materials	6.1 Sub-Outcome: Development of 3 handbooks.	Consultant - Individual - International	W/Day	5	500.00	2,500.00	7,500.00		2,500.00	5,000.00	
		Consultant - Individual - Local	W/Day	20	250.00	5,000.00					
	6.2 Sub-Outcome: Development of a technical assistance impact	Consultant - Individual - International	W/Day	2	500.00	1,000.00	2,500.00			2,500.00	
		Consultant - Individual - Local	W/Day	6	250.00	1,500.00					
	6.3 Sub-Outcome: Development of a monitoring and evaluation plan.	Consultant - Individual - International	W/Day	5	500.00	2,500.00	2,500.00		2,500.00		
		Consultant - Individual - Local	W/Day	4	250.00	1,000.00					
6.4 Sub-Outcome: Development of a CTN technical	Consultant - Individual - International	W/Day	3	500.00	1,500.00	2,500.00			2,500.00		
	Consultant - Individual - Local	W/Day	4	250.00	1,000.00						
National project coordinator to support the NDA and NDE on the implementation	Professional Services – Companies/Firm	Lump sum	1	10,000.00	10,000.00	10,000.00	10,000.00	10,000.00			
Total outcome budget							202,000.00	46,000.00	125,500.00	30,500.00	
Project Management Cost (PMC) <small>Up to 7.5% of Total Activity Budget</small>	Project manager part time	Lump sum	1	8,120.00	8,120.00	12,120.00	Percentage of PMC requested:				

	Audit Fee	Lumpsum	1	4,000.00	4,000.00	6.0%
Delivery partner fee	20,000					
Contingency (up to 5% of total activities)	10,000					
TOTAL USD	244,120.00					

FOR GREEN CLIMATE FUND SECRETARIAT'S USE ONLY

Breakdown (per budget category)	Total (per budget category)
Audio Visual & Printing	-
Audit Fee	4,000.00
Consultant - Individual - International	71,000.00
Consultant - Individual - Local	55,000.00
Professional Services - Companies/Firm	10,000.00
IT Equipment	-
Office Supplies	5,000.00
Travel - International	24,500.00
Travel - Local	5,500.00
Workshop/Training	31,000.00
Project Management	8,120.00
0	
0	
0	
0	
Total Outcome Budget + PMC	

FOR GREEN CLIMATE FUND SECRETARIAT'S USE ONLY

Total Outcome Budget		
Project Management Cost (PM)	0.0% requested	
Contingency	1% requested	
<hr/>		
Sub-Total (Total Outcome Budget + Contingency + PMC)		-
Delivery Partner Fee (DP) - Up to 8.5% of the Sub-Total		-
<hr/>		
Total Project Budget (Total Activity Budget + Contingency + PMC + DP)	\$	-

Budget Categories	
Audio Visual & Printing	0
Audit Fee	4000
Consultant - Individual - International	71000
Consultant - Individual - Local	55000
Professional Services – Companies/Firm	10000
IT Equipment	0
Office Supplies	5000
Travel - International	24000
Travel – Local	6000
Professional Services – Companies/Firm	8,120
Workshop/Training	31000

0
4000
71000
55000
10000
0
5000
24000
6000
8,120
31000

5.2 Procurement Plan

For goods, services, and consultancies to be procured, please list the items, descriptions in relation to the activities in Section 3, estimated cost, procurement method, relevant threshold, and the estimated dates. Please include the procurement plan for at least the first tranche of disbursement requested below and provide a full procurement plan for the entire duration of the implementation period if available at this stage.

Sub-Total (US\$)		\$	-			

Item	Item Description	Estimated Cost (US\$)	Procurement Method	Thresholds (Min-Max monetary value)	Estimated Start Date	Projected Contracting Date
Goods and Non-Consulting Services						
Travel	Airfare and Subsistence	30,000.00	Low value procure	Greater than \$10,000	01/07/2019	15/08/2019
Workshops	Facility and equipment rental	31,000.00	Low value procure	Greater than \$10,000	01/07/2019	15/08/2019
Office supplies	Hardware for energy audit	5,000.00	Single source purc	Less than \$10,000	01/07/2019	15/08/2019
Sub-Total (US\$)		\$	66,000.00			
Consultancy Services						
Professional Services	Project Coordinator	10,000.00	Open tender	Greater than \$10,000	01/07/2019	15/08/2019
International Consultant	Building energy efficiency specialist	60,000.00	Open tender	Greater than \$10,000	01/07/2019	15/08/2019
International Consultant	Monitoring and evaluation specialist	11,000.00	Open tender	Greater than \$10,000	01/07/2019	15/08/2019
National Consultant	Building energy efficiency specialist	42,500.00	Open tender	Greater than \$10,000	01/07/2019	15/08/2019
National Consultant	Monitoring and evaluation specialist	12,500.00	Open tender	Greater than \$10,000	01/07/2019	15/08/2019
Sub-Total (US\$)		\$	136,000.00			