

Monitoring & Evaluation (M&E) Plan and Impact Statement Form

Objective of the M&E Plan and Impact Statement:

- The M&E Plan and Impact Statement must be designed based on the Technical Assistance Response Plan and must enable the Implementer to complete the Closure Report at the end of the assistance.

Process for filling in the form:

- The Implementer must identify relevant quantitative and qualitative indicators as specified in the Closure Report. A sub-set of indicators to monitor and assess must be chosen among these.
- The Implementer may also identify other specific, measurable, achievable, relevant, and time-bound indicators suitable to monitor Activities, Outputs and anticipated Outcomes from the technical assistance and add to the M&E Plan and Impact Statement.
- During implementation of the TA or FTA, the Implementer must collect all relevant data as described in the Monitoring & Evaluation Plan. Aggregated data on selected indicators as well as an updated version of the Impact Statement will be presented in the Closure Report at the end of the assistance.

Basic Information	
Title of response plan	Adoption of Green buildings in Pakistan to achieve Pakistan's Nationally Determined Contribution
Technical assistance reference number	CTCN 22-015
Country/ countries	Pakistan
NDE focal point and organisation	Ministry of Climate Change
Sector(s) addressed	CTCN Mitigation Sectors – Energy efficiency – Building
Technologies supported	Sustainable design, Building standards and codes
Implementation period and total duration	21 months
Total budget for implementation	250,000 USD
Designer of the response plan	UN CTCN
Implementer of response plan	KICT

(A) Outputs and Activities as described in the Response Plan	(B) Indicator	(C) Expected results	(D) Method and frequency for data collection	(F) Comments
Output 1: Development of implementation planning and communication documents	<i>Select relevant indicators from the Closure Report (at least one core indicator, section B). You may also define additional relevant indicators to be added.</i>	<i>Add the expected quantitative or qualitative target/value of the indicator (e.g. number of studies, policy recommendations , etc.).</i>	<i>Describe the expected method and frequency for data collection (e.g. survey, head count at a training workshop, application of a standard methodology etc.)</i>	<i>Describe any assumptions made or anticipated challenges for collecting quantitative and qualitative data</i>
Activity 1.1: All implementers must undertake the following activities at the beginning and at the end of the CTCN technical assistance				
Output 2: Introduction of project coordination mechanism	Core indicator 3	Infrastructure and built environment 132 people for workshop	Technical Committee by stakeholders	Several times meeting and regular communication by GGC
Activity 2.1: Map relevant stakeholders and establish a stakeholder working group				
Activity 2.2: Conduct an inception meeting				
Activity 2.3: Conduct of regular working group meetings				
Output 3: Assessment of building groups and regulations in Pakistan, and diagnosis of technological needs	Core indicator 2	Infrastructure and built environment	Set the guideline and regulation for Pakistan	Setting by Korea expert group Review by Pakistan stakeholders
Activity 3.1: Assessment of the current performance of building groups, capacities and existing regulations				
Activity 3.2: Identification of international best practices and technologies				
Activity 3.3: Gap analysis and evaluation of savings potential				
Output 4: Development of green building standards	Core indicator 2 Core indicator 3	60 people for training programme	Set the guideline and regulation for Pakistan Public consultation workshop	Setting by Korea expert group Review by Pakistan stakeholders
Activity 4.1: Development of draft green building standards and policy guidelines				
Activity 4.2: Public consultation process				
Activity 4.3: Finalization of green building standards and policy guidelines				
Output 5: Development of effective mechanisms and tools for the implementation of	Core indicator 2	Infrastructure and built environment	Set the guideline and regulation for Pakistan	Setting by Korea expert group Review by Pakistan stakeholders

building standards				
Activity 5.1: Development of an effective MV&E framework				
Activity 5.2: Development of user manuals				
Activity 5.3: Delivery of a training the trainers programme				
Output 6: Development of financing mechanisms to implement green building standards in existing government buildings	Core indicator 2	Infrastructure and built environment	Set the guideline and regulation for Pakistan	Setting by Korea expert group Review by Pakistan stakeholders
Activity 6.1: Identification and development of most appropriate financing mechanisms and business models to transition to green government buildings				

Note: The Response Plan may contain information useful for the section below. The information in the table below will be used by the CTCN for public communication of the achieved and expected results of the Technical Assistance through the CTCN website www.ctc-n.org and other communication channels. See for example: https://www.ctc-n.org/sites/www.ctc-n.org/files/benin_a_ag_forestry.final_.pdf

Impact Statement	
Challenge	Energy related research and data are scattered in Pakistan, but there are no actual green building laws and code, so through this TA, we will draft Pakistan's green construction standards and promote the operation of the government led green building market through cooperation with government ministries
CTCN assistance	<ul style="list-style-type: none"> - Map relevant stakeholders and establish a stakeholder working group and conduct of regular working group meetings - Assessment of the current performance of building regulations and gap analysis/evaluation with international best practices - Development of green building standards and financing mechanisms to implement
Anticipated impact	<ul style="list-style-type: none"> - Quantification of potential savings from green building initiatives such as water, electricity consumption, and incorporation of renewable energy sources etc. - This is also an initiative for developing synergies between the systems and enabling the net zero buildings concept.
Anticipated co-benefits from the TA	The suggested measures will help in devising policies and economic measures to promote the construction of green and environment-friendly buildings, At length, green building standards will lead to drastic reduction in demand for energy and considerable monetary savings, including for the common people
Gender aspects of the TA	Throughout the implementation of the CTCN technical assistance, gender and youth aspects will be integrated across all activities. In particular, women's equal participation will be facilitated in decision making, capacity building and awareness raising

Anticipated contribution to NDC	<ul style="list-style-type: none"> - Reduction of the overall carbon emissions from the building. - Use of sustainable material consumption to further ensures sustainable design, hence reducing the overall footprint of the existing and new buildings
The narrative story	<p>Being the most rapidly urbanizing country in Asia, Pakistan’s building sector offers great potential for transitioning to energy efficient sector. Considering global numbers, the construction sector is highly energy and carbon-intensive, currently producing between 25% and 40% of global carbon emissions.</p> <p>Around 8% of the overall global CO2 emissions come from the production of steel and concrete, for example.</p> <p>Due to a lack of green building standards and regulations, the rapid urbanization across Pakistan has seen an infrastructural development which is not environmentally sustainable and responsible. A major initiative is required to be taken towards implementing green building standards with a clear methodology, monitoring verification and enhancement MV&E and financing. Pakistan has so far been constrained by the lack of awareness among people about the importance and advantages of adopting green building practices, as well as limited access to financing.</p>
Contribution to SDGs	<p>SDG7 : Ensure access to affordable, reliable, sustainable and modern energy for all</p> <p>SDG11 : Make cities and human settlements inclusive, safe, resilient and sustainable</p> <p>SDG12 : Ensure sustainable consumption and production patterns</p> <p>SDG13 : Take urgent action to combat climate change and its impacts</p>
Reference to knowledge products	<p>The Climate Technology Progress Report 2022</p> <p>Support for Climate Technologies Provided by the Operating Entities of the Financial Mechanism</p> <p>Policy brief on enabling environments and challenges to technology development and transfer identified in TNAs, NDCs and CTCN TA</p>