Achieving Low Carbon Growth in Cities through Sustainable Urban Systems Management in Thailand

6 July 2017

Project Information

Implementing Partner: TGO

Budget (US$) : 185.45 million

- GEF 3.15 million
- KhonKaen 43.80 million
- Nokorn Ratchasima 103.68 million
- Samui 28.04 million
- Chiang Mai (tbd)

Project Period: 1 May 2017 – 30 April 2021

Project Areas: Khonkaen, Nakorn Ratchasima, Samui, and ~~Kleang,~~ Chaing Mai

Project Goal and Objectives

Project Goal

Reduction of future GHG emissions from cities in Thailand

- GHG emission reduction, 177,708 tCO$_2$e

Project Objectives

Promotion of sustainable urban systems management to achieve low carbon growth in Khonkaen, Nakorn Ratchasima, Samui, ~~Kleang,~~ Chaing Mai

- Fuel savings, 788,093 GJ

- Amount of waste used (recycled, composted, anaerobically digested, 389,532 tons

- Green job created, 40

Project Outcomes

Component # 1.1

Low carbon sustainable urban development planning
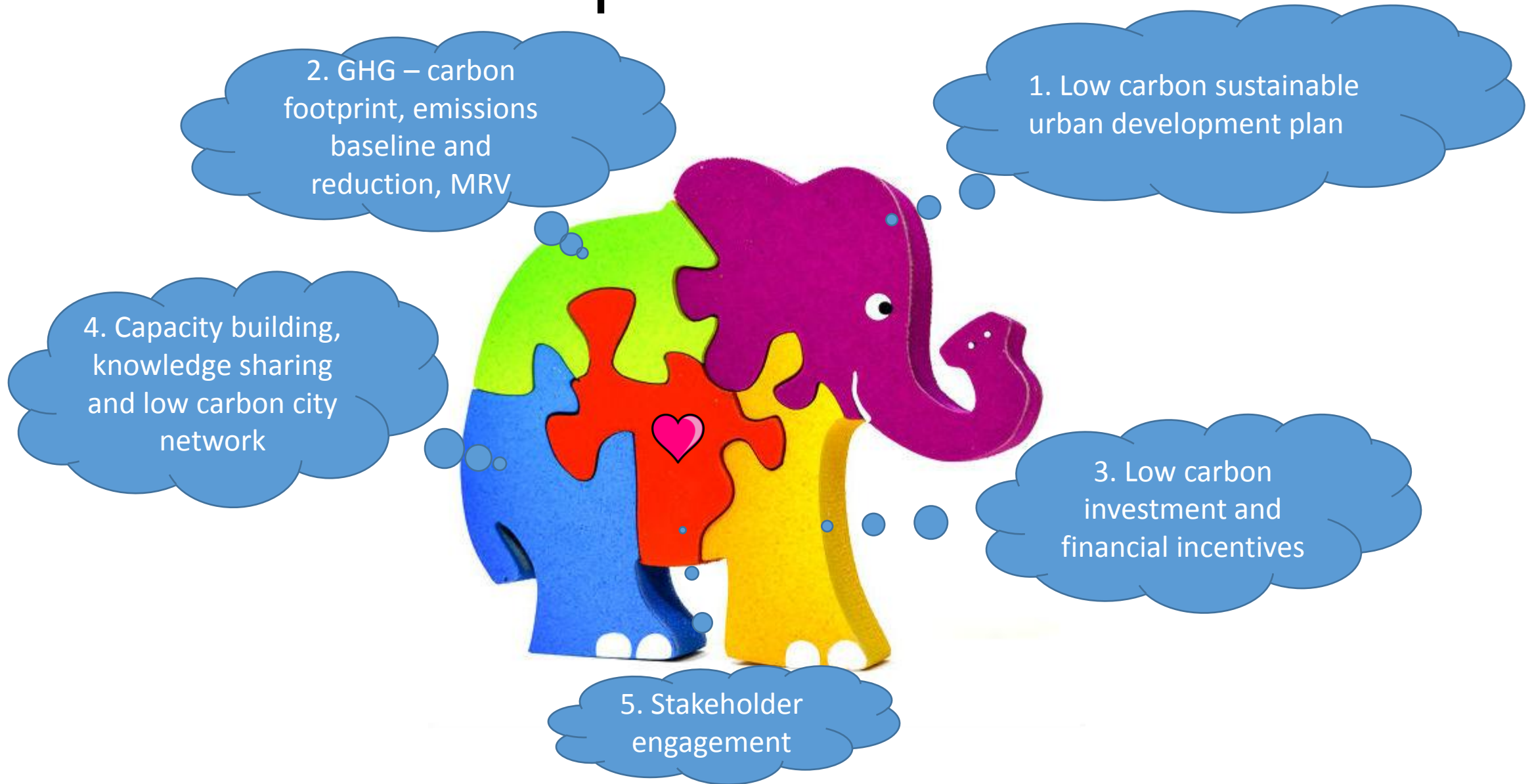
Component # 1.2

Low carbon investments in energy efficient urban system by government and private sector

Component # 2.1

Financial incentives and institutional arrangement in support of low carbon cities initiatives

Technical Compositions

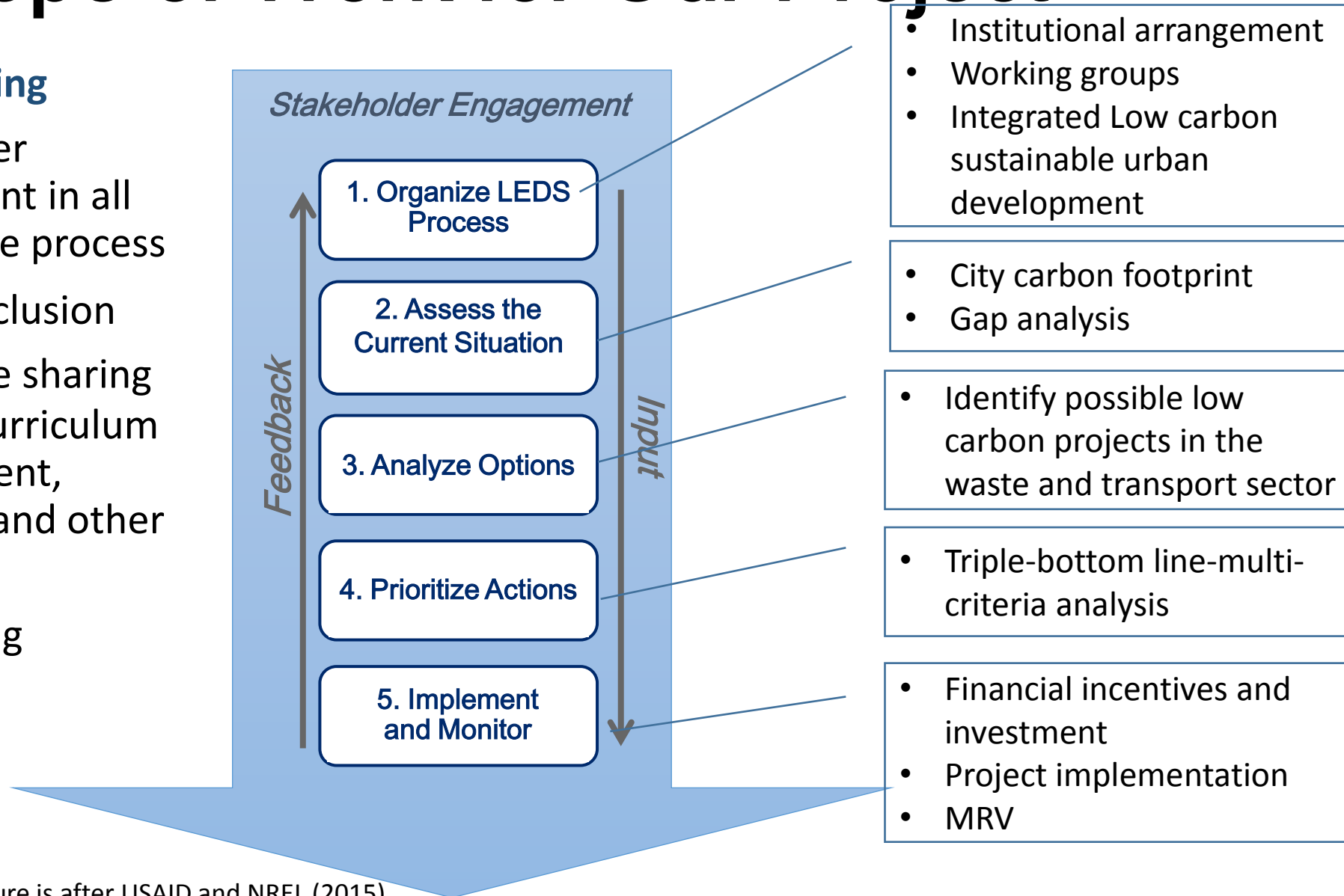2. GHG – carbon footprint, emissions baseline and reduction, MRV

1. Low carbon sustainable urban development plan

4. Capacity building, knowledge sharing and low carbon city network

3. Low carbon investment and financial incentives

5. Stakeholder engagement

Essential Qualities of a Low Emission Development Strategies

Country-owned and **Country-driven**	• Tailored specifically to a country's unique development situation and needs
Analytically Sound	• Built on transparent, internationally accepted analytical techniques and underlying data
Comprehensive	• Inclusive of all significant development goals, emissions sources, economic sectors, and stakeholders
Forward Looking and Long-term	• Considers the impacts and incorporates a planning horizon several decades into the future
Actionable	• Stakeholders can readily adopt and implement the strategy
Transformative	• Results in a significant change in trajectory from the business-as-usual GHG emissions scenario

Source: After USAID and NREL (2015)
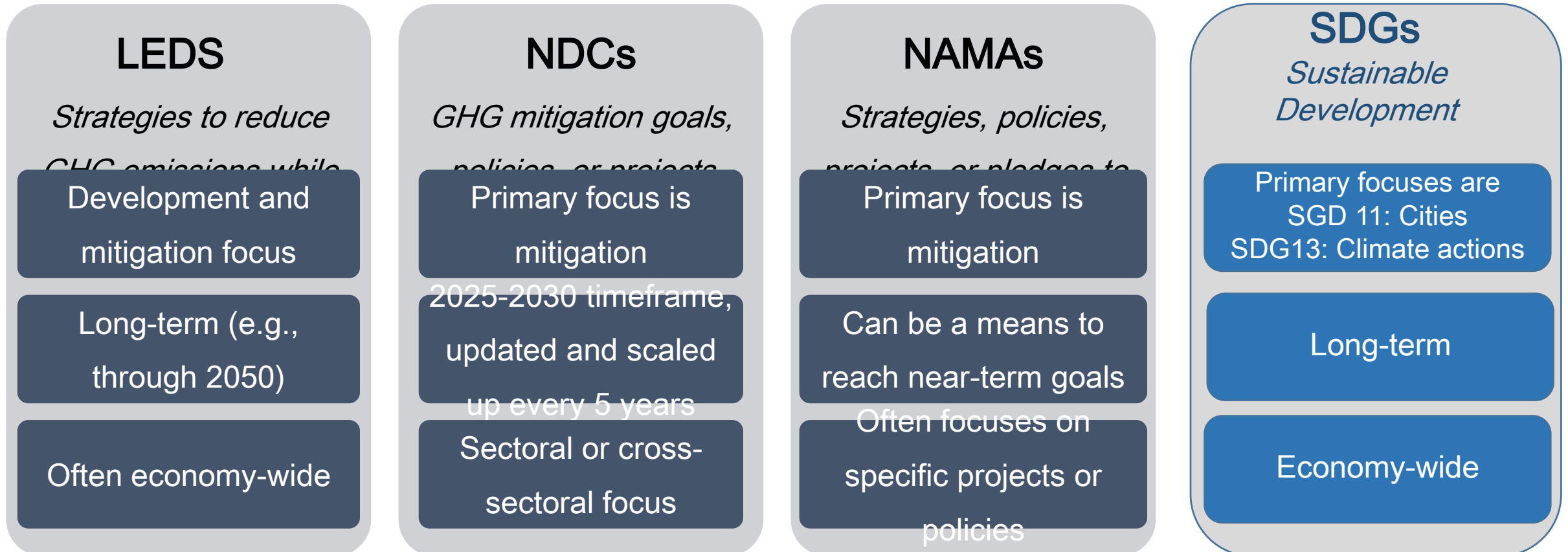
Scope of Work for Our Project

Cross Cutting

- Stakeholder engagement in all steps in the process
- Gender inclusion
- Knowledge sharing through curriculum development, trainings, and other platforms
- Networking

Stakeholder Engagement

Feedback → *Input*

1. Organize LEDS Process
2. Assess the Current Situation
3. Analyze Options
4. Prioritize Actions
5. Implement and Monitor

- Institutional arrangement
- Working groups
- Integrated Low carbon sustainable urban development

- City carbon footprint
- Gap analysis

- Identify possible low carbon projects in the waste and transport sector

- Triple-bottom line-multi-criteria analysis

- Financial incentives and investment
- Project implementation
- MRV

Source: LEDS figure is after USAID and NREL (2015)

LEDS, NDCs, NAMAs and SDGs

LEDS represent one of several internationally-utilized mechanisms to support climate change mitigation and can provide an development-focused, overarching framework for NDCs, NAMAs, and Sustainable Development Goals (SDGs).

LEDS	NDCs	NAMAs	SDGs
Strategies to reduce GHG emissions while	*GHG mitigation goals, policies, or projects*	*Strategies, policies, projects, or pledges to*	*Sustainable Development*
Development and mitigation focus	Primary focus is mitigation	Primary focus is mitigation	Primary focuses are SGD 11: Cities SDG13: Climate actions
Long-term (e.g., through 2050)	2025-2030 timeframe, updated and scaled up every 5 years	Can be a means to reach near-term goals	Long-term
Often economy-wide	Sectoral or cross-sectoral focus	Often focuses on specific projects or policies	Economy-wide

Key Indicators in Numbers*

Low Carbon Sustainable Development Planning

- Integrated low carbon urban development and action plan, 4

- # of cities approved and adopted low carbon development plan, 4

- LCSD integrated with normal urban planning development process, 100%

- Sector specific plans, 8

GHG-Carbon footprint, Emissions & Reductions, MRV

- # of cities completed carbon footprint, 4

- MRV plans and framework and plan for specific sectors, (3)

* Subject to modification as a result of the discussion during the Inception Workshop

Key Indicators in Numbers (con't)*

Low Carbon Project Implementation

- # of low carbon demonstration projects in 4 cities, 19
- Low carbon project designed based on or influenced by the demo projects, 8

Carbon Finance

- New investment leverage through local plans of participating cities for low carbon projects, USD20 m
- New policies facilitating low carbon investments in cities endorsed and approved by line agencies, 2
- Low carbon projects financially assisted by government, private, schemes in 4 cities, 8
- Project participating in T-VERs or applicable schemes (tbd)

* Subject to modification as a result of the discussion during the Inception Workshop

Key Indicators in Numbers (con't)*

Training Products

- Carbon footprint training materials

- Low carbon urban sustainable development planning training materials

- Guidelines on international and national sources of climate change (in Thai), 1

Capacity Building

- Officers trained on LEDS, 40

- Private sector trained on LEDS,40

- Officers trained on carbon footprint,20

Key Selected Targets in Numbers*

Knowledge Sharing

- Infographics/vdo/audio, 6
- # of audience reached with awareness campaigns in cities, 40,000
- Lesson learned reports/best practices, 6

Networking

- # of cities that are officially members of the LCC network,32
- National/international events, at least 2/year
- Communication products on successful low carbon investment & activities in cities, at least 2/year

* Subject to modification as a result of the discussion during the Inception Workshop

Contact

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