



NAMA for Recognition

A Overview

A.1 Party

Thailand

A.2 Title of Mitigation Action

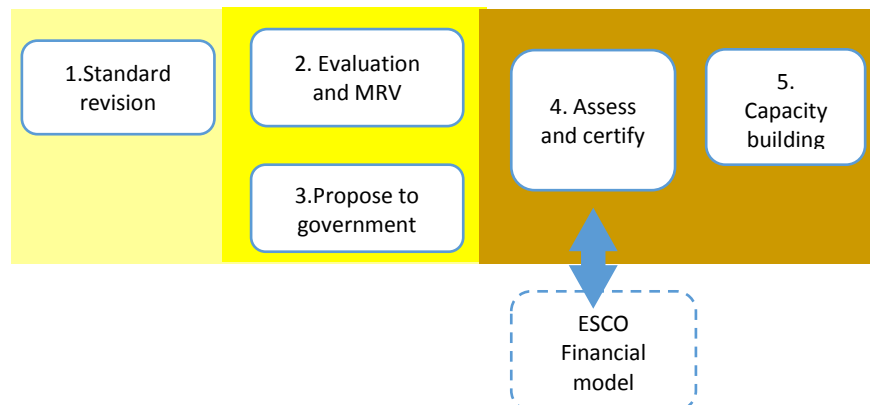
Greening Thailand's Government Buildings

A.3 Description of mitigation action

According to Department of Alternative Energy Development and Efficiency Database, in 2015 government buildings accounted for 21 % of the total energy use by buildings in Thailand with grow projected at 3.3 % per year. ¹

Building new energy efficient/green buildings or retrofitting existing government buildings is often economically viable and can further stimulate private investment in commercial and residential sectors. Current government policy plans retrofits based on the operational age of buildings and does not take into consideration the potential to achieve higher levels of energy efficiency. Further, there is no support to achieve standards beyond basic Building Energy Code requirements for new government buildings nor is there an existing system to assess and collect operational energy performance data of government buildings.

The proposed NAMA engages the Pollution Control Department (PCD) to implement a green building standard and certification scheme for existing government buildings. It will support the National Pollution Control Committee in the development of an energy efficiency standard for existing government buildings. Additional activities include MRV, and capability-building. The financial support is expected via ESCO model (at a later stage). This NAMA seeks to stimulate private buildings to adopt green building standards through public sector leadership.





The actions proposed in this NAMA will support Thailand's INDC of 20% emissions reduction from BAU by 2030. It is also in line with Thailand's national goal of reducing energy intensity by 30% by 2036, compared to 2010 levels.

A.4 Sector Energy supply Transport and its Infrastructure
 Residential and Commercial buildings Industry
 Agriculture Forestry
 Waste management Other <Pls enter
 Other text here>

A.5 Technology Bioenergy Cleaner Fuels
 Energy Efficiency Geothermal energy
 Hydropower Solar energy
 Wind energy Ocean energy
 Carbon Capture and Storage Low till / No till
 Land fill gas collection Other <Pls enter Other text here>

A.6 Type of action National/ Sectoral goal
 Strategy
 National/Sectoral policy or program
 Project: Investment in machinery
 Project: Investment in infrastructure
 Project: Other
 Others: <Pls enter Other text here>

A.7 Greenhouse gases covered by the action
 CO₂ CH₄
 N₂O HFCs
 PFCs SF₆
 Other <Pls add in text here>

B National Implementing entity

B.1.0 Name Pollution Control Department (PCD)
 B.1.1 Address 92 Soi Phahon Yothin7, Phahon Yothin Road, Sam Sen Nai Phayathai District, Bangkok 10400
 B.1.2 Contact Person Ms. Mothinee Aopreeya
 Alternative Contact Person Ms.Jarinporn Tippamongkol
 B.1.3 Phone 0 298 2091
 Alternative Phone 0 2298 2310
 B.1.4 Email mothinee.a@pcd.go.th
 Alternative Email jarinpcd@gmail.com

C. Expected timeframe for the implementation of the mitigation action

C.1 Number of years for completion 4 years



C.2 Expected start year of implementation	2018
D.1 Used Currency	Thai Baht
Conversion to USD	<u>35 Baht = 1 USD</u>
E Cost	
E.1.1 Estimated full cost of preparation	490,000 baht
Conversion to USD	14,000 USD
E.1.2 Comments on estimated full cost of preparation	
The preparation cost corresponds to the revision of the Green Building Standard Report and evaluation submission to Government Capacity Building activities. Details in the attached files.	
E.2.1 Estimated full cost of implementation	190,000,000 baht
Conversion to USD	5,428,571 USD
E.2.2 Comments on estimated full cost of implementation	
The full implementation cost covers maintenance cost of participating buildings during 10 year time. Details in the attached files.	
E.3.1 Estimated incremental cost of implementation	9,200,000 baht
Conversion to USD	262,858 USD
E.3.2 Comments on estimated incremental cost of implementation	
The incremental cost of the project covers Policy making, MRV and Capacity Building.	
	Policy making 200,000 baht (5,714 USD)
	MRV system 8,200,000 baht (234,286 USD)
	Capacity building 800,000 baht (22,858 USD)
F Estimated emission reductions	
F.1 Amount	1,634
F.2 Unit	tCO2/ years
F.3 Additional information (e.g. if available, information on the methodological approach followed):	
The estimated emission reduction is divided into (1) project emission reduction based on the assumption that 10 buildings per year will join the project and (2) whole potential reduction which targets all large government buildings joining under government policy	
	- Project potential 1,634 tCO2/yrs
	- All large government bldg (639 Bldg.) 98,808 tCO2/yrs
G.1 Other indicators of implementation :	
	1. Green building labelling scheme is set up and applied to existing government buildings.
	2. Percentage of designated government buildings to achieve green building label by 2020.

