

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.		
1.Sta revi	ndard ision 2. Evaluation and MRV 4. Assess and certify 5. Capacity building S.Propose to government ESCO Financial		



in line with Thailand's national goal of reducing energy intensity by 30% by 2036, compared to 2010 levels.	0				
intensity by 30% by 2036, compared to 2010 levels.					
intensity by 50% by 2050, compared to 2010 levels.					
A.4 Sector Energy supply Transport and					
its Infrastructure					
🔀 Residential and Commercial buildings 🛛 🗌 Industry					
Agriculture Forestry					
Waste management Other <pis ent<="" td=""><td>er</td></pis>	er				
Other text here>					
A.5 Technology Bioenergy Cleaner Fuels					
Energy Efficiency Geothermal energy					
Hydropower Solar energy					
Wind energy Ocean energy					
Carbon Capture and Storage					
Land fill gas collection Other <pis enter="" here="" other="" text=""></pis>					
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="" here="" other="" text=""></pls>					
A.7 Greenhouse gases covered by the action					
\square CO ₂ \square CH ₄					
\square N ₂ O \square HFCs					
\square PFCs \square SF ₆					
Other <pis add="" here="" in="" text=""></pis>					
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 Distric	ct,				
Bangkok 10400	ŕ				
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					
3.1.4 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 Conversion to USD		490 14,	0,000 baht .000 USD			
E.1.2 Comments on est The preparation cost co evaluation submission t	imated full cost of rresponds to the r o Government Cap	preparation evision of the Gre pacity Building act	en Building Standard ivities. Details in the	Report and attached files.		
E.2.1 Estimated full cost of implementation Conversion to USD			190,000,000 baht 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 Conversion to USD			9,200,000 baht 262,858 USD			
E.3.2 Comments on esti	mated incrementa	l cost of impleme	ntation			
The incremental cost of	the project covers	Policy making, N	IRV and Capacity Buil	ding. • (5.714 USD)		
	MRV	system	8,200,000 baht	(234,286 USD)		
F Estimated emission re	Capa	city building	800,000 baht	(22,858 USD)		
F 1 Amount	1 (2)					
F.I Amount	1,034					
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 All large government bldg (639 Bldg.) G.1 Other indicators of implementation : 						
G.1 Other indicators of	- Project - All large implementation :	potential government bld	g (639 Bldg.)	1,634 tCO2/yrs 98,808 tCO2/yrs		



	3. Develop	MRV framework for collection and reporting of		
operational energy use in buildings.				
	4. Develop building	sustainable financing framework for energy efficiency ss.		
	5. No. of t	rained personnel for the green government buildings.		
H.1 Other relevant information	including co-ł Economi Environn	 benefits for local sustainable development c: (1) Reduced utility cost of government budget; (2) Increased energy security from demand-side reductions; (3) Increased market demand for energy efficiency products and business; (4) Increased productivity from a greener and healthier work environment. benetal: (1) Reduced GHG emissions from reduced electricity generation; (2) Reduced use of water and other natural resources; (3) improved government building environment. 		
	Social:	(1) Positive health effects from better air quality;		
		(2) Job creation and economic development:		
		(3) Capacity building and skills development.		
I Relevant National Policies stra	ategies, plans	and programmes and/or other mitigation action		
I.1 Relevant National Policies	Ener	gy Efficiency Plan (2015-2036)		
	Thail	and Climate Change Masterplan (2011-2050)		
I.2 Links to other mitigation act	ions DEDI	E Building label		
J Attachments				
J.1 Attachment description	the attachment includes 2 files: 1.cost and potential 2 Project plan			
J.2 File	1.cost_and_potential.pdf 2.project plan.pdf			

1. http://www.eppo.go.th/index.php/th/component/k2/item/11342-energy-statistics-2559 ,Energy report,EPPO,Ministry of energy.