

## ANNUAL WORK PLAN 2016

Country: Viet Nam

**Project Title:** Energy Efficiency Improvement in Commercial and High-Rise Residential Buildings in Viet Nam

**UN One Plan III Focus area(s):**

*Focus area 1: Inclusive, Equitable and Sustainable Growth*

**Expected OP Outcome(s)/Indicator(s):**

Outcome 1.3: By 2016, key national and sub-national agencies, in partnership with the private sector and communities, have established and monitor multi-sectoral strategies, mechanisms and resources to support implementation of relevant multilateral agreements and effectively address climate change adaptation, mitigation and disaster risk management

Outcome Indicator 1: CO2 emissions, total, per capita and per \$1 GDP (PPP)

**Expected OP Output(s) and Indicator(s):**

Output 1.3.3: A national system for Reduced Emissions from Deforestation and forest Degradation (REDD), and Nationally Appropriate Mitigation Actions (NAMAs) for a number of strategically chosen sectors and localities are formulated and operationalized with clear potential benefits

Output Indicator 1: Number of sub-sectors/ cities/ towns/ provinces with NAMAs developed and submitted to an international register

**Implementing Entity:**

Ministry of Construction (MOC)

### Brief Description

The Project has the goal to reduce intensity of GHG emissions from the building sector in Viet Nam. The project objective is to improve the energy utilization performance of commercial and high-rise residential buildings in Ho Chi Minh and Hanoi. Realization of this objective will be achieved through implementation of three components (1) Improvement and Enforcement of Energy Efficiency Building Code; (2) Building Market Development Support Initiatives, and (3) Building EE Technology Applications and Replications. Each component comprises a number of complementary activities designed to remove barriers to the stringent enforcement of the revised EEBC, and to the greater uptake of building energy efficiency technologies, systems, and practices in commercial and residential buildings. By EOP, the GEF investment will have catalysed direct GHG emission reduction of about 37,680 tCO<sub>2</sub>e. The cumulative direct reduction in GHG emissions over the lifetime of the project is envisioned to be 236,382 t CO<sub>2</sub>e.

**Expected results for 2016 are**

- Review project status and update project expected outputs in the inception phase.
- International Technical Advisor providing technical inputs and advise to project activities
- Building capacity for MOC's staff through participating international conference/events or training programs;
- Provision of technical and coordination support through recruiting main project officers to implementation project activities.
- To carry out preliminary assessment and findings through local site visits to meet relevant stakeholders for taking into account list of selected demonstration buildings to conduct detailed energy audits.
- Implement some activities related to advocacy and promotional programs to strengthen EE in buildings.
- Prepare TORs for activities to be implemented from 2017


One Plan Period: 2012-2016	<b>Approved budget for 2016: US\$ 107,650</b>
One Plan PCG: Climate Change and Environment	Allocated resources: <b>US\$ 107,650</b>
Project Title: Energy Efficiency Improvement in Commercial and High-Rise Residential Buildings in Viet Nam	o Regular: (GEF): <b>US\$ 107,650</b>
Project Code: 00092225	o Government <b>US\$ 0</b>
Project Duration: 2016-2019	o Others: <b>0</b>

Agreed by Executing Entity:

 Date: 04 Nov, 2016

Le Trung Thanh  
National Project Director  
Director General, Department of Science, Technology and Environment, MOC

Agreed by UNDP:

 Date: 16/11/16

Akiko Fujii  
Deputy Country Director  
United Nations Development Programme

**ANNUAL WORK PLAN 2016**  
**Project title: Energy Efficiency Improvement in Commercial and High-Rise Residential Buildings in Viet Nam**  
**Project ID: 00092225**

EXPECTED OUTPUTS	PLANNED ACTIVITIES	TIMEFRAME				RESPONSIBLE PARTY	PLANNED BUDGET 2016			
		Q1	Q2	Q3	Q4		Funding Source	Amount in 2016		
UN One Plan Output 1.3.3: A national system for Reduced Emissions from Deforestation and forest Degradation (REDD), and Nationally Appropriate Mitigation Actions (NAMAs) for a number of strategically chosen sectors and localities are formulated and operationalized with clear potential benefits										
Output Indicator 1: Number of sub-sectors/ cities/ towns/ provinces with NAMAs developed and submitted to an international register										
<b>Component 1: Improvement and Enforcement of Energy Efficiency Building Code</b>										
<b>Outcome 1.1: Enforced, improved and comprehensive policy, legal, and regulatory frameworks on the energy efficient design, construction and operation of commercial and high-rise residential buildings</b>										
Output 1.1.1: Improved and enforced implementing policy framework and regulations on EE in buildings, including revised/improved EE Building Code (EEBC), with a full EEBC compliance guide  - % of DOCs and building practitioners nationwide that reference EEBC compliance toolkits and guideline developed by the baseline and the projects by EOP. + Baseline: 30% of DOCs nationwide and 20% of building practitioners. - Target (2016): N/A. MRV: survey reports and feedback documented.  - % of applications for new commercial and high-rise residential building constructions	Activity 1.0 : Overall guidance on Comp. 1 implementation					UNDP	GEF	International senior expert- strategic guidance and quality control	\$0	
	Activity 1.1.1.1: Development of compliance guidelines and toolkits								\$0	
	Activity 1.1.1.2: Compilation of energy performance data for selected building construction materials and end-use equipment						MOC	GEF	2 consultants (construction materials and end-use equipment)	\$0
	Activity 1.1.1.3: Preparation of technical and economic justifications of EE promotions in the building sector in Viet Nam						UNDP	GEF	International Expert	\$0
	development of roadmap and action plan to strengthen EE promotions in the building sector in Viet Nam					MOC	GEF	A pool of local consultant(s)		
Output 1.1.2: Established and operational EE certification scheme for buildings	Activity 1.1.2.1: Development an EE certification approach/methodology for					UNDP, MOC	GEF	International Expert and National Consultant	\$0	

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	Activity 1.1.2.2: Implementation of a building certification/labelling			MOC	GEF	National consulting firm	\$0
<b>Outcome 1.2: Strengthened compliance of the energy efficiency building code for commercial and high-rise residential buildings in Hanoi and HCMC</b>							
Output 1.2.1: Approved guidelines that support EE building initiatives and market % of building practitioners nationwide that	Activity 1.2.1.1: Development of beyond-code guidelines for a higher level of EE in building			UNDP, MOC	GEF	International Expert and National Consultant	\$0
	Activity 1.2.2.1: Development and implementation of M&V scheme			UNDP, MOC	GEF	International Expert and National Consultant	\$0
	Activity 1.2.2.2: Inception phase to review project status and update project expected output			MOC, UNDP	GEF	International consultant	
	<i>Inception report</i>			UNDP	GEF	<i>Int'l consultant</i>	\$20,000
Output 1.2.2: Established and implemented building measurement & verification (M&V) scheme	<i>Inception workshop</i>			MOC	GEF	<i>Meeting</i>	\$6,500
	<i>Travel of international consultant</i>						\$350
	Activity 1.2.2.3: Testing of the M&V scheme on selected EE			MOC	GEF	National consulting firm	
	Activity 1.2.3.1: Development of SEC profiles for buildings			UNDP, MOC	GEF	International Expert and National Consultant	
Output 1.2.3: Established and implemented building energy benchmarking system that is linked to the certification scheme	Activity 1.2.3.2: Development, establishment and implementation of building energy benchmarking			MOC	GEF	International Expert and National Consultant	
	Activity 1.2.3.3: Development and implementation of information Disclosure Program for commercial and high-rise residential buildings			MOC	GEF	Local national consultant	
	Activity 1.2.4.1: Implement studies of overall and detailed energy consumption of selected			UNDP, MOC	GEF	International consultant and National consulting firm	\$0
	Activity 1.2.4.2: Implement studies of overall and detailed energy consumption of selected			UNDP, MOC	GEF	International consultant and National consulting firm	\$0
Workshop activity: Consultation and Result dissemination workshops			MOC	GEF	01 meeting and 01 workshop for Activity 1.2.2.2	\$4,000	

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Communication activity: Implementation of advocacy and promotional programs to strengthen EE in buildings					MOC	GEF		\$5,000
Travel				X	MOC	GEF		\$0
<b>SUBTOTAL FOR COMPONENT 1</b>								\$35,850

**Component 2: Building Market Development Support Activities**

<b>Outcome 2: Increased local capacity in the EE design, construction and operation of commercial and high-rise residential buildings</b>								
<b>Output 2.1: Formulated, approved, funded and implemented financial mechanisms and incentives to support EE efforts in the buildings sector and cost norms for construction</b> - No. of financial mechanisms and incentives for commercial and high-rise residential buildings approved and implemented by EOP. + Baseline: 0 + Target: 1 (at least) + MRV: EECB project reports  - % of stakeholders in the building sector that are satisfied with services provided by CEEBs by EOP. + Baseline: 0%	Activity 2.1.0: International Technical Advisor providing technical inputs and advise to				UNDP	GEF	International senior expert	0
	Activity 2.1.1: Development and approval of innovative financing mechanisms for EE buildings				MOC	GEF	National consultant	\$0
	Activity 2.1.2: Development of an economic evaluation toolkits for EE building projects, data inputs and a detailed implementation plan				UNDP, MOC	GEF	International consultant and National consulting firm	\$0
	Activity 2.1.3: Formulation of a detailed implementation plan, approval and operationalization of the financial mechanism				MOC	GEF	National consultant	\$0
<b>Output 2.2: Fully operational Centres for Energy Efficiency in Buildings (CEEBS) under MOC</b>	Activity 2.2.1: Conduct of situation analysis and training needs of Energy Assessors & CEEBs in Hanoi and HCMC				MOC	GEF	National consultant	\$0
	Activity 2.2.2: Enhancement of organizational frameworks and operational plans of energy assessors group and CEEBs				MOC	GEF	National consultant	\$0
<b>Output 2.3: Trained CEEB staff to implement awareness and training programs to promote EE in the building sector</b>	Activity 2.2.3: The training and demonstration kits for EE technologies, systems and applications housed at the Hanoi				MOC	GEF	Equipment support to ECC Hanoi:	\$0
	Output 2.3: Trained CEEB staff to implement awareness and training programs to promote EE in the building sector				MOC	GEF	International consultant and National consulting firm	\$0

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