

ANNUAL WORK PLAN 2017

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):	<i>Focus area 1: Inclusive, Equitable and Sustainable Growth</i>
Expected OP Outcome(s)/Indicator(s):	<i>Outcome 1.3:</i> 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 <i>Outcome Indicator 1:</i> CO2 emissions, total, per capita and per \$1 GDP (PPP)
Expected OP Output(s) and Indicator(s):	<i>Output 1.3.3:</i> 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 <i>Output Indicator 1:</i> 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_{2e}. The cumulative direct reduction in GHG emissions over the lifetime of the project is envisioned to be 236,382 t CO_{2e}.

Brief Summary of the AWP 2017

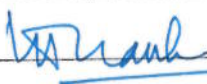
This is the second year of the project implementation with a bunch of significant activities that are planned to strongly push up the implementation. Overall, the 2017 annual work plan aims at providing MOC, MOIT and beneficiaries in building construction sector with technical assistance through (i) mobilization of technical inputs for delivery of outputs; (ii) establishment of relations with international and nationally potential partners, especially in policy development; (iii) activation of energy efficiency demonstration activities in target buildings and (iv) implementation of a project communication program.

Expected results for 2017

- Energy performance data for selected building construction materials and end-use equipment are fully collected;
- An EE building certification/ labeling approach/ methodology for buildings with a M&V scheme associated is drafted;
- Benchmarking reviewed and energy audits completed for 90 buildings;
- A report on training needs of energy assessors is completed;
- Trials conducted for 4 selected buildings;
- A communication program is activated with relevant networks developed.

Programme Period:	2012-2016	Estimated annualized budget: US\$ 743,000
Atlas Award ID:	00084022	Allocated resources: US\$ 743,000
Project ID:	00092225	<input type="radio"/> Regular: (GEF): US\$ 743,000
PIMS #	5245	<input type="radio"/> Government
Start date:	05 April 2016	<input type="radio"/> Others:
End Date	05 April 2020	
Management Arrangements	NIM	

Agreed by Executing Entity:



Date: 08/03/2017

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

Agreed by UNDP:

 Date:

Akiko Fujii
Deputy Country Director
United Nations Development Programme

Project code & title:

00092225; Energy Efficiency Improvement in Commercial and High-Rise Residential Buildings in Viet Nam

Implementing Partner:

Ministry of Construction

Currency Rate: \$22.772

EXPECTED OUTPUTS And baseline, associated indicators and annual targets	PLANNED ACTIVITIES	TIMEFRAME				RESPONSIBLE PARTY	PLANNED BUDGET			Challenges, solutions and other issues	
		Q1	Q2	Q3	Q4		Funding Source	Budget Description	Amount (USD)		
1	2	3	4	5	6	7	10	11	12	13	
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											
COMPONENT 1: Improvement and Enforcement of Energy Efficiency Building Code											
Activity Result 1.0 : All output results planned in this year are well guided.											
	Act 1: Procure one international senior expert on Strategic and Quality Advice (ISTA)	X	X			UNDP	MOC	GEF			To be recruited by UNDP asap. At least 7 manmonths this year. Risk: UNDP cannot mobilize in time Solution: Home-based working or a short-term contract with a consultant to start up the project activities.
	Act 2: Provide PMU and consultants with guidances for implementation of Com. 1 activities; Act 3 Report the overall progress, quality of related activities and recommend next steps.		X	X	X	UNDP	MOC	GEF	71200	International Consultants	51,200
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 Indicator: % of DOCs and building practitioners nationwide that reference I-BC compliance toolkits and guideline developed by the baseline and the projects. % of applications for new commercial and high-rise residential building constructions submitted to DOCs comply with EEBC 2013; # of national testing standards for energy performance of building construction materials promulgated; # of existing and new commercial buildings and high-rise residential buildings in Viet Nam certified as EE buildings; Baseline: • 30% of DOCs nationwide and 20% of building practitioners. No standard and high-rise buildings in Vietnam certified as EE buildings; Target: • 30% of DOCs nationwide and 20% of building practitioners. No standard and high-rise buildings in Vietnam certified as EE buildings (no assessment will											
Output 1.1.1:											
Improved and enforced implementing policy framework and regulations on EE in buildings											
Indicators: 1 Availability of energy performance data for selected building construction											
	Activity Result 1.1.1.1: Developed compliance guidelines and toolkits										
	Activity Result 1.1.1.2: Compiled energy performance data for selected building construction materials and end-use equipment										
	Act 1: Procure one national expert for compilation of energy performance data for selected building construction materials and end-use equipment	X	X				MOC	GEF			Translate TORs and Advertise on Dau Thau (Procurement) and relevant newspapers. Mobilized in May. \$500 estimated for a post.

materials and end-use equipment 2. Availability of technical and economic justifications of EE promotion in the building sector 3. Number of policies/ roadmaps and regulations on EE. issued etc.	Act. 2: Develop the consolidated report on energy performance data for selected building construction materials and end-use equipment - Inception Report (20% contract value); - Main Report (40% and 20%); - Final Report (20%) - Consultation WSS (methodology and results)					x	x	x			MOC	GEF	71300	Local Consultants	10,627	To complete in November. This may require some business trips to collect/ consult with relevant parties. Complete Main Report and Final Report will be made next year (60%) WS \$3,000 each
Baseline: 1&2. There is neither study on actual energy performance data nor technical and economic justifications of high-rise buildings at project outset 3 A law, decree No 21 and related circulars, especially EE building code of construction sector promulgated but need improvements for better application Target: 1&2. Draft reports on (i) the energy performance data and (ii) technical and economic justifications available in QIV. 3 A draft roadmap and action plan to strengthen EE in building submitted to PMU in QIV MoV: 1.2.3 Draft technical reports. 1.2.3 Annual Progress Report	Activity Result 1.1.1.3: Prepared technical and economic justifications of EE promotions in the building sector in Viet Nam															
	Act.1: Procure one national team on economic analysis in EE	x	x								MOC	GEF				Mobilized in QII 2017
	Act. 2: Develop a methodology for technical and economic justifications of EE promotions in building sector in VN		x								UNDP MOC	GEF	71200	International Consultants		This report will be done by ISTA. He shall guide the national also. Cost covered in Activity 1.0
	Act. 3: Develop a report on technical and economic justifications of EE promotions in building sector in VN - Consultation WSS (methodology and results)			x	x						MOC	GEF				To complete in October. This may require some business trips to collect/ consult with relevant parties Final payment will be made next year. 40% cost to be paid for the consultant this year. Cost to be included in 2.1.2
	Act. 4: Organize a consultation workshop										MOC					\$3,000
Activity Result 1.1.1.4: a completed roadmap and action plan to strengthen EE promotions in the building sector in Viet Nam																
Act.1: Procure one national expert to develop a roadmap and action plan to strengthen EE promotions in the building sector in Viet Nam	x									MOC	GEF					This post will be supported and led by ISTA.
Act. 2: Develop the roadmap and action plan - Inception Report (20% contract value). - Main Report (40%).		x	x							MOC	GEF	71300	Local Consultants	8,592	This activity will not end in 2017. Therefore the payment will be 60% for 2017 only.	
Act. 3: Consult with relevant stakeholders to finalize the reports: - Methodology consultation (30 pars).				x						MOC	GEF				\$2,500	
Total for Output No. 1.1.1														19,219		
Output 1.1.2: Established and operational EE certification scheme for buildings. Indicators: 1. Availability of a building certification/labelling scheme 2. Number of buildings certified/labeled Baseline: 1&2. No EE certification scheme for buildings established and operated at the project outset.	Activity Result 1.1.2.1: An EE certification approach/methodology for buildings developed															
	Act.1: Procure one national team for development of EE certification approach/ methodology for buildings and establishment of a building certification/ labeling and M&V scheme		x	x							MOC	GEF				
	Act 2: Draft the approach/ methodology			x	x						MOC	GEF	71300	Local Consultants	19,412	A draft report to be completed in QIV. 50% to be paid this year.

<p>Target: 1&2 Technical input mobilized in QIV</p> <p>MoV:</p> <p>1.2 Contract signed;</p> <p>1.2. Annual Progress Report</p>	Activity Result 1.1.2.2: A building certification/labeling scheme established								<i>This activity will be continued in the next year To be guided by ISTA</i>				
	Act.1: Procure one firm for establishment of a building certification/ labeling scheme.				x	x		MOC	GEF			To be procured this year only. The firm will start performing the contract next year.	
	Total for Output No. 1.1.2										19,412		
	Total for Outcome 1.1										38,631		
<p>Outcome 1.2: Strengthened compliance of the energy efficiency building code for commercial and high-rise residential buildings in Hanoi and HCMC</p> <p>Indicator:</p> <p>% of building practitioners nationwide that reference the EE design guideline to achieve a higher level of EE than the EEBC requirements by EOP;</p> <p>% of commercial and high-rise residential buildings referencing M&V schemes in EE implementation;</p> <p>% of overall commercial and high-rise residential building stakeholders that are satisfied with availability and quality of energy benchmarking data</p> <p>Baseline: 20%, 0%, 20% respectively.</p> <p>Target: 20%, 0%, 20% respectively. (No assessment to be done this year)</p> <p>MoV: N/A</p>												ATLAS ACTIVITY 2	
<p>Output No. 1.2.2</p> <p>Established and implemented building and project measurement & verification (M&V) scheme</p> <p>Indicators:</p> <p>1. Availability of Project M&V Tool;</p> <p>2. Availability of a building M&V scheme;</p> <p>3. Availability of assessment results of Project M&V targets.</p> <p>4. Availability of assessment results of Project M&V targets:</p> <p>Baseline: 1&2. No project and building M&V tools established.</p> <p>3. Baseline indicators of the project were mentioned in PRODOC.</p> <p>4. No study on the building EE available at the project outset.</p> <p>Target: 1. The project M&V tool approved in QIII.</p> <p>2.4. Technical inputs mobilized in QIV</p> <p>3. No assessment this year yet.</p> <p>MoV:</p> <p>1. Project M&V Tool approved;</p> <p>2.4. Contract signed.</p> <p>1.2.4. Annual Progress Report</p>	Activity Result 1.2.2.2: Development and implementation of EE Building M&V scheme								<i>This activity will be continued in the next year To be guided by ISTA</i>				
	Act.1: Recruit the national team for development and implementation of EE building M&V scheme					x	x		MOC	GEF			<i>Same team as 1.1.2.1</i>
	Act.2: Draft the building M&V scheme.						x		MOC	GEF			To be consulted with USAID during TOR development. This can become part of the EE certification approach as mentioned in 1.1.2.1.
	Activity Result 1.2.2.4: A project M&V tool established and applied.												
	Act.1: Procure one national expert on Project M&V		x	x					MOC	GEF			To be guided by ISTA
	Act.2: Develop the project M&V Methodology - Consult with relevant stakeholders;			x	x				MOC	GEF	71300	Local Consultants	4,716 20% contract value to be paid in the first year \$2000 for the WS.
Total for Output No. 1.2.2										4,716			
<p>Output No. 1.2.3</p> <p>Established and implemented building energy benchmarking system that is linked to the certification scheme</p>	Activity Result 1.2.3.1: SEC profiles for buildings developed												
	Act.1: Procure one international expert on SEC profile and benchmarking	x	x					UNDP	MOC	GEF			To be procured by UNDP

Indicators:
 1. Availability of a building energy benchmarking system that is linked to the certification scheme
 2. Availability of an information disclosure program for commercial and high-rise buildings.
Baseline: 1&2 No building energy benchmarking system and an information disclosure program available at the project outset.
Target:
 1. Draft SEC and building energy benchmarking system reports available in QIV
 2. Technical inputs available in QIV
MoV:
 1. Draft technical reports.
 2. Contract signed.
 1&2. Annual Progress Report

Output No. 1.2.4
 Completed energy consumption survey of selected commercial and high-rise residential buildings

Indicators:
 1. # surveys implemented for buildings in the North, South and Centre
 2. Availability of the survey reports
Baseline:
 1. USAID carried the survey for 280 buildings. More buildings should be studied to update the actual situations of EE consumption
 2. No baseline survey results are available at the project outset
Target: 1&2. 50 buildings studied and a draft report submitted to PMU in QIV.
MoV:
 1. Raw data collected.
 2. Technical draft reports;
 1.2. Annual Progress Report

Procure one national team on SEC profile and energy benchmarking.		x				MOC	GEF	72100	Contractual services - Companies		
Act. 2: Develop the SEC profile for buildings. - 20% for methodology; - 20% for draft product - Consult with relevant stakeholders.		x	x			MOC	GEF	71300	Local Consultants	15,937	50% of total contract
Activity Result 1.2.3.2: A building energy benchmarking system developed and implemented											Developed this year only
Act. 1: Develop the building energy benchmarking system		x				MOC	GEF				Cost combined in 1.2.3.1
Total for Output No. 1.2.2										15,937	
Activity Result 1.2.4.1: Studies of overall and detailed energy consumption of selected buildings in the North implemented											
Act. 1: Procure a firm on energy consumption in the North		x	x			MOC	GEI				
Act. 2: Develop the methodology for the studies of overall and detailed energy consumption of selected buildings in North			x	x	UNDP	MOC	GEI				To be done by IE on EE in buildings. Cost covered in the activity 2.1.2
Act.3 Carry out the studies in the North				x		MOC	GEI	72100	Contractual services - Companies	25,748	The team in the North as described in 1.2.2.4 50% to be paid this year
Activity Result 1.2.4.2: Studies of overall and detailed energy consumption of selected buildings in the South and Centre implemented											
Act. 1: Procure a firm on energy consumption in the Centre and South.		x	x			MOC	GEI				
Act. 2: Develop the methodology for the studies of overall and detailed energy consumption of selected buildings in the South and Centre			x	x	UNDP	MOC	GEF				To be done by IE on EE in buildings. Cost covered in the activity 2.1.2
Act.3. Carry out the studies in the South and Centre				x		MOC	GEF	72100	Contractual services - Companies	35,196	The team in the South and Centre as described in 1.2.2.4 50% to be paid this year
Total for Output No. 1.2.2										60,945	
Total for Outcome 1.2										81,597	

	Communication						MOC	71300		Communication	0	
	Workshop and Meeting	x	x	x	x		MOC	GEF	75700	Training, Workshops and Conference	7,500	As described in each activity, TOR consultation meetings and other technical meetings that cannot be defined now, at the planning period.
	DSA and travel				x		MOC	GEF	71600	Travel Cost	7,500	For PMU staff or uncontracted trips of consultants as requested by PMU.
	Translation Cost	x	x	x	x		MOC	GEF	71300	Local Consultants	1,500	
	Advertisement Cost	x	x	x	x		MOC	GEF	72100	Contractual services - Companies	3,500	
	Other Cost	x	x	x	x		MOC	GEF	74500	Miscellaneous	1,100	Translation costs, advertisement cost, etc.
Total for Outcome 1											192,529	
COMPONENT 2: Building Market Development Support Activities												
OUTCOME 2: Increased local capacity in the EE design, construction and operation of commercial and high-rise residential buildings											ATLAS ACTIVITY 3	
Same as in Outcome 1	Activity Result 2.1.1: International Technical Advisor providing technical inputs and advice to project activities.											
	Act 1: Provide PMI and consultants with guidances for implementation of Com. 2 activities. Act 2: Report the overall progress, quality of related activities and recommend next steps.	x	x	x	x	UNDP	MOC	GEF	71200	International Consultants	51,200	
Project Output No. 2.1: Increased local capacity in the EE design, construction and operation of commercial and high-rise residential buildings Indicators: 1 # innovative financing mechanisms for EE buildings; 2 Availability of economic evaluation toolkits for EE building projects. 3 # Dissemination workshops/ trainings on the toolkits; Baseline: 1&2. No innovative financing mechanisms and economic evaluation toolkits for EE buildings developed yet.	Activity Result 2.1.2: Economic evaluation toolkits for EE building projects, data inputs and a detailed implementation plan developed											
	Act 1: Develop the methodology			x	x	UNDP	MOC	GEF	71200	International Consultants	51,390	Contract Value signed: 61,668. To pay 5% contract value this year. First draft submitted in QIV 2017 This task will be implemented by II: on EE in buildings
	Act 2: Develop economic evaluation toolkits for EE building projects, data inputs and a detailed implementation plan - Consult with relevant stakeholders.			x	x		MOC	GEF	71300	Local Consultants	15,966	Consultant recruited in 1.1.1.3. 40% contract value. First draft submitted in QIV 2017. \$2000 estimated for the WS.
Total for Output No. 2.1											67,356	
Output No. 2.2: Fully operational centers for energy efficiency in buildings Indicators: 1 Availability of a business/operational	Activity Result 2.2.1: Situation analysis and training needs of Energy Assessors & CEEBs in Hanoi and HCMC conducted.											
	Act 1: Procure one national expert on EE Capacity Building	x	x				MOC	GEF				

<p>plan of frameworks and operational plans of energy assessors group and CEEBs</p> <p>2. Availability of training curriculum</p> <p>3. # equipment handed over to CEEB.</p> <p>4. % Capacity of the target trainees improved.</p> <p>Baseline: 1.2.4. CEEB's staff capacities are limited as assessed at inception phase, but no specific evaluation results are provided yet.</p> <p>3. CEEB is lack of EF equipment for their evidence-based trainings.</p> <p>Target: 1&2. The training need assessment report and draft frameworks and plan available in QIV.</p> <p>3. At least the equipment contract signed in QIV</p> <p>4. No training organized this year yet.</p> <p>MoV:</p> <p>1&2. Draft reports/ plans.</p> <p>3. Hand-over minutes of meeting.</p> <p>1.2.3. Annual Progress Report</p>	<p>Act 2: Develop a report on situation analysis and training needs of energy assessors & CEEBs in Hanoi and HCMC.</p> <ul style="list-style-type: none"> - 20% for methodology; - 20% for draft report; <p>Act 3. Organize a consultation meeting</p> <ul style="list-style-type: none"> - Methodology consultation; - Final Result Consultation; 	x	x	x	MOC	GEF	71300	Local Consultants	13,402	All paid this year. TOR for training courses included. * a WS with PMU, UNDP and target trainees. \$4,000	
	Activity Result 2.2.2: Organizational frameworks and operational plans of energy assessors group and CEEBs enhanced.										
	<p>Act 1: Develop a report on organizational frameworks and operational plans of energy assessors group and CEEBs</p> <ul style="list-style-type: none"> - 20% for methodology. 				x	x	MOC	GEF	71300	Local Consultants	Same consultant as mentioned in 2.2.1. Cost covered in 2.2.1
	<p>Act 2. Organize a consultation meeting with PMU, UNDP and target trainees on the training need assessment results</p>					x	MOC	GEF			\$1,500
	Activity Result 2.2.3: The training and demonstration kits for EE technologies, systems and applications housed at the Hanoi Energy Management Staff Training Center of ECC in Hanoi										
	<p>Act 1. Develop the TOR for the purchase</p>		x	x			MOC	GEF			PMU shall work with the center to know their needs and work with them to develop the
	<p>Act 1. Purchase and install the equipment</p>					x	MOC	GEF	72200	Equipment	50,000 Note: Need a documentation from the beneficiary on the use of the equipment and their commitments with the project
	Total for Output No. 2.2									63,402	
	Output No. 2.3: Trained CEEB staff to implement awareness and training programs to promote EE in the building sector										
Activity Result 2.3.1: Trained Energy Assessors to implement awareness and training programs to promote EE in the building sector											
<p>Act. 1: Develop the training curriculum framework and main outlines</p>				x	x	UNDP MOC	GEF	71200	International Consultants	Draft available in 2017 only. The PSA shall guide the national consultant during the whole process. Cost covered in the activity 2.1.6	
<p>Act 2. Develop training documents</p> <ul style="list-style-type: none"> - Organize a consultation meeting - Methodology consultation (40 pars). 				x	x	MOC	GEF	71300	Local Consultants	Same consultant as mentioned in 2.2.1 Draft available in 2017 only Cost covered in 2.2.1	
Activity Result 2.3.2: Capacity building program for Energy Assessors, CEEB's and MOC's Staff implemented.											
<p>Act 1. Organize an overseas study tour on EE: building design and regulation framework</p> <ul style="list-style-type: none"> - Develop the capacity building report after the study tour with findings and recommendations. 		x				UNDP MOC	GEF	71600	DSA and Travel Cost	30,000 QIII 2017	
Activity Result 2.3.3: Technical and Coordination support to project activities provided											

	Act 1. Provide technical and coordination support to project activities	x	x	x	x		MOC	GEF	71400	Local Consultants	46,446	PM, NTE. Accountant January to November for PM and Accountant to be paid here.	
	Total for Output No. 2.3										76,446		
Output No. 2.4: Operational support program for ESCOs in the negotiation and implementation of building energy performance contracts	Activity Result 2.4.1: Operational support program for ESCOs in the negotiation and implementation of building energy performance contracts												
	Act 1. Procure one international expert on Capacity Building Program fro ESCOs				x		UNDP	MOC	GEF			To be procured by UNDP.	
	Act 2. Develop the program				x		UNDP	MOC	GEF	71200	International Consultants	0	
	Activity Result 2.4.2: Design and implementation of a project communication program, especially an outreach program for ESCOs												
	Act 1. Procure one national expert on communication in energy efficiency and a national firm to produce communication products in energy efficiency	x	x					MOC	GEF			This expert will also support the other two outcomes	
	Act 2. Produce communication products				x			MOC	GEF	72100	Contractual services - Companies	10,000	In case a firm is not yet hired this year. Cost for communication products will be allocated from general costs of project communication.
	Act 2. Develop the project communication program		x	x	x			MOC	GEF	71300	Local Consultants	7,346	40% contract value to be paid this year. S/he shall develop related communication TORs also, provide inputs and monitor communication activities in following years
	Act 3. Organize a consultation meeting on the draft program			x	x			MOC	GEF			\$3,000	
	Total for Output No. 2.4											17,346	
	Communication							MOC	GEF	74200	Audio Visual & Print Prod Costs	7,000	
	Workshop and Meetings	x	x	x	x			MOC	GEF	75700	Training, Workshops and Conference	10,500	As described in each activity, TOR consultation meetings and other technical meetings that cannot be defined now, at the planning period.
	Translation Cost	x	x	x	x			MOC	GEF	71300	Local Consultants	2,500	
	Advertisement Cost	x	x	x	x			MOC	GEF	72100	Contractual services - Companies	3,500	
	DSA and travel	x	x	x	x			MOC	GEF	71600	Travel Cost	3,000	
	Other Cost	x	x	x	x			MOC	GEF	74500	Miscellaneous	1,000	
	Total for Outcome 2											303,251	
COMPONENT 3: Building EE technology applications and replications													
OUTCOME 3: Increased use of EE building materials and application of EE building technologies in HCMC and Hanoi												ATLAS ACTIVITY 4	

Indicators:
 Availability of a support program for ESCOs:
 # commercial and high-rise residential buildings that implement EE projects using the ESCO models
Baseline: 1. No support program for ESCO to negotiate and implement building energy performance contracts available at the project outset
 2. 5 buildings applied with ESCO service.
Target: 1. First draft operational support program submitted to PMU in QIV.
 2. No target this year yet.
MoV:
 1. First Draft Report,
 1. Annual Progress Report

Same as in Outcome 1	Activity Result 3.0: International Technical Advisor providing technical inputs and advice to project activities.											
	Act. 1: Provide PMU and consultants with guidances for implementation of Com. 2 activities; Act. 2: Report the overall progress, quality of related activities and recommend next steps	x	x	x	x	UNDP	MOC	GEF	71200	International Consultants	30,720	80% contract value paid this year.
Output No.3.2: Completed demonstrations of the design, application and operation of EE equipment, building materials and design Indicators: 1. % of new and retrofitted commercial and high-rise residential buildings that are partly or entirely based on EE building materials and applications being promoted and demonstrated ; 2. No. of demonstration projects that adopted EE equipment, building materials and building energy monitoring and management/control systems promoted by the EEBC project ; 3. No. of completed M&V exercises in accordance with the guidelines proposed by the project. 4. No. of new EE building projects designed based on or influenced by the results of the demonstration projects. Baseline: 1.2 & 4.5% 5, 0, 5 respectively as baseline indicators at the project outset. Target: 1.5% this year 2.3 & 0 this year. 4. At least 02 designs with associated action plans approved in QH. MoV: 4. Designs with action plans approved by PMU and UNDP. 4. Annual Progress Report.	Activity Result 3.2.1: Demonstration of EE in buildings of new buildings (4-6 new buildings) implemented											Target this year: 02-04 buildings
	Act 1 Procure a national team on EE Building Demonstration for new buildings	x	x				MOC	GEF				International expert was recruited in 2016
	Act 2. Develop the guidance reports for EE design of demonstration buildings selected in 2017		x	x		UNDP	MOC	GEF	71200	International Consultants	77,632	30% contract value paid this year. To be done by IE on EE in buildings
	Develop the preliminary studies of selected buildings with action plan and preliminary implementation plan included. - Inception report; - Preliminary Studies of selected buildings.				x	x	MOC	GEF	71300	Local Consultants	40,605	20% contract value paid this year. 2 WSS: one in Hanoi (\$1,500), the other in HCM (\$3,000). Cost can be shared with 3 2.2
	Act 3 Organize consultation meetings - With building owners and designers. - A large WS on the demonstration EE building design with building owners and related designers		x	x	x		MOC	GEF				Large consultation workshops to finally consult and agree on the design and what to do next, one in Hanoi (\$2,500), the other in HCM (\$4,000)
	Activity Result 3.2.2: demonstration of EE in buildings of existing buildings (10 - 12 existing buildings) implemented.											Target this year: 05 - 07 buildings
	Act 1 Procure a national firm on EE Building Demonstration for existing buildings	x	x				MOC	GEF				
	Act 2 Develop the guidance reports for EE design of demonstration buildings selected in 2017		x	x		UNDP	MOC	GEF	71200	International Consultants		To be done by IE on EE in buildings. Cost covered in the activity 3 2.1
	Develop the preliminary studies of selected buildings with action plan and preliminary implementation plan included, - Inception report; - Preliminary Studies of selected buildings; - Organize consultation meetings				x	x	MOC	GEF	72100	Contractual services - Companies	49,355	30% contract value paid this year. 2 WSS: one in Hanoi (\$2,500), the other in HCM (\$4,000). Participants can be building owners and designers;
	Total for Output No. 3.2										167,592	
Output No.3.3: Documented and disseminated results and lessons from the demonstrations of implementing EEBC and EE&C in new and existing	Activity Result 3.3.1: Documented results and lessons from the demonstration projects											
	Act 1. Collect, analyze and summarize all lessons from the demonstration projects.		x				MOC	GEF	71200	International Consultants		To be done by IE on EE in buildings and inputs to be provided by NEs and NF

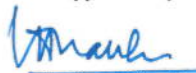
buildings Indicators: 1. # lessons documented and shared; 2. # dissemination workshops organized; Baseline: 1&2. 06 demo buildings implemented by USAID, DANIDA and IFC can be lessons learnt for project demo. Target: 1. At least two lesson-learnt reports on the demon buildings submitted to PMU in QIV. 2. No workshop this year. MoV: 1. Draft report; 1. Annual Progress Report	Act 2. Consult with UNDP, PMU and demonstration buildings about the results.					x	MOC	GEF	75700	Training, Workshops and Conference		Can be combined in the WS of 3.2.1 or 3.2.2. \$1,000	
	Act 3. Develop and disseminate project achievements at this outcome			x	x		MOC	GEF				\$10,480 paid from Communication budget	
	Total for Output No. 3.3											0	
	Communication						MOC	GEF	74200	Audio Visual & Print Prod Costs		5,000	
	Workshop and Meetings		x	x	x	x		MOC	GEF	75700	Training, Workshops and Conference	5,500	As described in each activity, TOR consultation meetings and other technical meetings that cannot be defined now, at the planning period.
	DSA and travel					x		MOC	GEF	71600	Travel Cost		6,000
	Translation Cost		x	x	x	x		MOC	GEF	71300	Local Consultants		3,000
	Advertisement Cost		x	x	x	x		MOC	GEF	72100	Contractual services - Companies		2,000
	Other Cost					x		MOC	GEF	74500	Miscellaneous		1,000
	Total for Outcome 3												220,812
Project Management												ATLAS ACTIVITY 5	
Indicators: 1. % disbursement rate; 2. # management/ field review reports submitted timely; Baseline: 1&2 1 PM, 1 NTS and 1 accountant/ admin recruited in 2016. Target: 1. 80% budget disbursed this year and all management/ field reports submitted timely; 2. 100% management report submitted timely. MoV: 1&2. Project records 1. Annual Progress Report	Salary for Project Staff					x	MOC	GEF	71400	Local Consultants and local staff	2,586	December salary for Admin/ Accountant and PM	
	Purchase office's equipment	x					UNDP MOC	GEF	72200	Equipment and Furniture	6,653	To be purchased by UNDP in QI.	
	Office expenses	x	x	x	x		MOC	GEF	72500	Miscellaneous	7,170		
	Project Management Meeting Cost		x	x	x	x		MOC	GEF	75700	Training, Workshops and Conference	2,000	PMU and PSC Meeting costs
	UNDP cost recovery charges		x	x	x	x	UNDP MOC	GEF	74599	Professional Service	4,000		
	Audit					x	UNDP MOC	GEF	71300	Audit	0	If implemented, cost will be paid next year.	
	DSA and travel		x	x	x	x		MOC	GEF	71600	Travel Cost	2,000	
Others		x	x	x	x		MOC	GEF	74500	Miscellaneous	2,000	Procurement costs can be covered in this line.	
Total for Outcome 4												26,409	
TOTAL FOR YEAR												743,000	

Date: 07 Mar 2017

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