

## ANNUAL WORK PLAN 2021

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 tCO<sub>2</sub>e.

### Brief Summary of the AWP 2021

This is the last year of the project implementation with all final project outputs expected to be delivered. Overall, the 2021 annual work plan aims at providing Ministry of Construction and related beneficiaries with continued technical assistance in (i) improvement of the policy framework for promotion of energy efficiency (EE) use in buildings i.e. revision/drafting of decrees for guiding the implementation of the revised Construction Law (2020) and approval of specific energy consumption (SEC) and energy benchmarking standards which will serve as a legal base for national application of SEC & energy benchmarking results supported by the project; (ii) production and dissemination of training documents on design, construction and acceptance of energy efficient buildings and renovation of buildings for best energy performance; (iii) production and dissemination of lessons learnt from project demonstration results and related guidelines; (iv) continued measurement and verification of actual energy consumption of demonstration buildings; and (v) enhancement of the sustainability of project results through knowledge sharing with project stakeholders.

### Expected Results

- Inputs to 01 decree guiding the implementation of the revised Construction Law
- 04 standards related to SEC and energy benchmarks are developed and approved;
- A SEC and energy benchmarking system with a database of 195 buildings (06 building categories) available;
- At least 02 technical training documents produced and disseminated;
- Monitoring and verification equipment is well installed in at least 01 supported building and five 5-year operation plans of supported buildings available;
- Key lessons and recommendation are recorded and disseminated nationwide through national workshops and a established knowledge sharing mechanism.
- Terminal project report prepared and completed.

Programme Period:	2012-2016	Estimated annualized budget: US\$ <b>645,367</b>
Atlas Award ID:	00084022	Allocated resources: US\$ <b>645,367</b>
Project ID:	00092225	○ GEF: US\$ <b>645,367</b>
PIMS #	5245	○ Government
Start date:	31 March 2016	○ Others:
End Date	31 March 2021	
Management Arrangements	NIM	

Agreed by Executing Entity: \_\_\_\_\_

Date: 26/2/2021

Vu Ngoc Anh  
National Project Director  
Director General, Department of Science, Technology and  
Environment, MOC

Agreed by UNDP: \_\_\_\_\_

Date: 11-Mar-2021

Sitara Syed  
Deputy Resident Representative  
United Nations Development Programme

## ANNUAL WORK PLAN 2021

**Project code & title:** 00092225; Energy Efficiency Improvement in Commercial and High-Rise Residential Buildings in Viet Nam  
**Implementing Partner:** Ministry of Construction

**Currency Rate:** \$ 23,100.00

EXPECTED OUTPUTS And baseline, associated indicators and annual targets	PLANNED ACTIVITIES	TIMEFRA			RESPONSIBLE PARTY	PLANNED BUDGET			Challenges, solutions and other issues		
		Q1	Q2	Q3		Funding Source	Budget Description	Amount 2021 (USD)			
1	2	3	4	5	7	8	9	10	13		
<b>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</b>											
<b>Output Indicator 1: Number of sub-sectors/ cities/ towns/ provinces with NAMAs developed and submitted to an international register</b>											
<b>COMPONENT 1: Improvement and Enforcement of Energy Efficiency Building Code</b>											
<b>Activity Result 1.0 : All output results planned in this year are well guided.</b>											
Act. 1: Provide PMU and consultants with guidances for implementation <b>and completion</b> of Com. 1 activities;		x	x	x	UNDP	MOC	GEF	71200	International Consultants	0	Cost to be covered in Component 3.
Act. 2: Report the overall progress, quality of related activities and recommend next steps.											
<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>											
<b>Indicator:</b>											
% of DOCs and building practitioners nationwide that reference EEBC 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:											
<b>Baseline:</b> • 30% of DOCs nationwide and 20% of building practitioners; No standard and high-rise buildings in Vietnam certified as EE buildings;											
<b>Target:</b> • 50% of DOCs nationwide and 70% of building practitioners; 05 standards and 01 cost norm submitted to MOC. 05 high-rise buildings in Vietnam certified as EE buildings by EECB project.											
<b>MoV:</b> N/A											
<b>Output 1.1.1:</b>											
<b>Activity Result 1.1.1.1: Developed compliance guidelines and toolkits</b>											
<b>Improved and enforced implementing policy framework and regulations on EE in buildings</b>											
<b>Activity Result 1.1.1.3: Prepared technical and economic justifications of EE promotions in the building sector in</b>											
Act.1: Develop the report to justify technical and economic benefits of EE promotions in buildings		x	x		UNDP	MOC	GEF	71200	International Consultants	0	Included in the ISTA contract
<b>Indicators:</b>											
1. Availability of energy performance data for selected building construction materials and end-use equipment											
2. Number of policies/ roadmaps and regulations on EE issued											
etc.											
<b>Activity Result 1.1.1.4: A completed roadmap and action plan to strengthen EE promotions in the building sector</b>											
Act.1: Update the roadmap and action plans with inputs from project results		x			UNDP	MOC	GEF	71300	Local Consultants	3,854	1 installment
<b>Baseline 2020:</b> 1. Energy performance data of construction materials and end-use equipment has been uploaded to MOC website.											
2. 5 standards on energy characteristics of construction materials were approved by MOC in 2020; 01 technical and economic cost norm of EE in buildings approved by MOC in 2020; 01 decree on development of green cities, green and EE buildings, and action plan for EE in construction sector drafted by MOC.											
<b>Target 2021:</b>											
<b>Activity Result 1.1.1.6: Analysed and defined scope to support the drafting and revision of related laws and decree</b>											
Act.1: Provide inputs to the formulation of new/amended policies (i.e. Assess the impacts of policy changes recommended by EECB Project (Decree 21, Law of Construction, Labeling scheme, etc.)		x	x	x	UNDP	MOC	GEF	71300	Local Consultants	0	Contract signed in 2020: \$19,242 Disbursed: \$6,734 Estimated disbursement in 2021: all remaining contract value (installments: IC.2020.09.24 - 1 times, IC.2020.09.18 - 2 times)
Act.2: Peer Review the legal suitability of recommended policies		x			UNDP	MOC	GEF	71300	Local Consultants	1,500	With a legislative expert (carried from AWP2020)

EXPECTED OUTPUTS And baseline, associated indicators and annual targets	PLANNED ACTIVITIES	TIMEFRAME			RESPONSIBLE PARTY	PLANNED BUDGET			Challenges, solutions and other issues	
		Q1	Q2	Q3		Funding Source	Budget Description	Amount 2021 (USD)		
1	2	3	4	5	7	8	9	10	13	
2. 05 said standards disseminated in 2021; inputs to the the decree on development of green cities, green and EE buildings, and action plan for EE in construction sector promulgated	Act 3: Provide international inputs regarding development of policies on green/EE cities and buildings	x	x		UNDP	MOC	GEF	71200	International Consultants	
<b>Output 1.1.2: Established and operational EE certification scheme for buildings.</b>	<b>Activity Result 1.1.2.1: An EE certification, labeling methodology for buildings developed</b>									
<b>Indicators:</b> 1. Availability of a building certification/labelling scheme 2. Number of buildings tested. <b>Baseline 2020:</b> 1&2.EE certification scheme for buildings developed but not yet operated at the project outset. International experience in EE labeling was summarized. <b>Target 2021:</b> 1. EE certification scheme for buildings approved for promulgation in 2021; 2. 195 buildings tested with energy labeling in Q1.2021. <b>MoV:</b> 1.1 Related report; 1.2. Annual Progress Report	Act.1: Define an energy labeling ranking system based on available SECs and energy benchmarks	x	x		UNDP	MOC	GEF	71300	Local Consultants	0 Contract signed in 2017: \$33040 Disbursed: \$24,770 Estimated disbursement in 2021: all remaining contract value (1 installments)
	Act.2: Test the labeling system at a number of selected buildings based on recommended SECs and energy benchmarks recommended by EECB project	x	x		UNDP	MOC	GEF	71300	Local Consultants	Included in the contract of NC on energy labeling
	Act 3: Consult the final results of the energy labeling system for finalization of the related report	x			UNDP	MOC	GEF	75700	Training, Workshops and Conference	Organized in HCM (In combination with the SEC activity 1.2.3.1). Cost covered in 1.2.3.1.
	Act 4: Develop a report on recommendations of next steps for comprehensive SEC profiles and energy benchmarks for Viet Nam	x			UNDP	MOC	GEF	71200	International Consultants	Combined in the cost for international expert in 1.2.3.1.
	<b>Total for Output No. 1.1.2</b>									0
	<b>Total for Outcome 1.1</b>									5,354
<b>Outcome 1.2: Strengthened compliance of the energy efficiency building code for commercial and high-rise residential buildings in Hanoi and HCMC</b>									<b>ATLAS ACTIVITY 2</b>	
<b>Indicator:</b>	<b>Activity Result 1.2.2.3: The M&amp;V scheme tested on selected EE buildings</b>								<i>Combined in 1.1.2.2.</i>	
<b>Output No. 1.2.2</b> <b>Established and implemented building and project measurement &amp; verification (M&amp;V) scheme</b>	<b>Activity Result 1.2.2.4: A project M&amp;E tool established and applied.</b>									
<b>Indicators:</b> 1. Number of buildings tested with M&V scheme; <b>Baseline 2020:</b> 1. The building M&V scheme available at project level in 2019. <b>Target 2021:</b> 1. 10 buildings certified and awarded with the EE certificate in Q1.2021 <b>M&amp;V:</b> 1. Technical report. 2. Annual Progress Report	Act. 1: Carry out data collection for project M&E results at final phase	x			UNDP	MOC	GEF	72100	Contractual services - Companies	0 Contract signed in 2018: \$37,079 Disbursed: \$ 22,897 Estimated disbursement in 2021: all
	Act. 2: Guide the data collection team and finalize the final M&E report	x			UNDP	MOC	GEF			
	Act. 3: Finalize the 2020 project M&E report	x			UNDP	MOC	GEF	71300	Local Consultants	4,470 Payment combined above.
	Act 4. Improve the gender equality in construction sector	x	x	x	UNDP	MOC	GEF	71300	Local Consultants	
	<b>Total for Output No. 1.2.2</b>									4,470
<b>Output No. 1.2.3</b> <b>Established and implemented building energy benchmarking system that is linked to the certification scheme</b>	<b>Activity Result 1.2.3.1: SEC profiles for buildings developed</b>									
<b>Indicators:</b> 1. Availability of a building energy benchmarking system that is linked to the certification scheme <b>Baseline 2020:</b> 1. Develop building energy benchmarking system that is linked to the certification scheme	Act. 1: Finalize the SEC and energy benchmark report	x			UNDP	MOC	GEF	71200	International Consultants	Contract signed in 2018-2020: \$66,231, Disbursed: \$44,630 Estimated disbursement in 2020: all remaining contract value (installments: RLA.2017.09.23 - 2 times, RLA. 2020-07-02 -2 times )

EXPECTED OUTPUTS And baseline, associated indicators and annual targets	PLANNED ACTIVITIES	TIMEFRAME			RESPONSIBLE PARTY	PLANNED BUDGET			Challenges, solutions and other issues		
		Q1	Q2	Q3		Funding Source	Budget Description	Amount 2021 (USD)			
1	2	3	4	5	7	8	9	10	13		
<b>Baseline 2020:</b> 1. Draft building energy benchmarking system and an information disclosure program available in 2020. An energy consumption database of 195 buildings available at MOC established. <b>Target 2020:</b> 1. SEC and building energy benchmarking system is established in 2021. <b>MoV:</b> 1. Technical report; 1. Annual Progress Report	Act. 2: develop 06 standards on SEC profiles and energy benchmark system for Viet Nam.	x	x	x	UNDP	MOC	GEF	72100	Contractual services - Companies	Contract signed in 2019,2020: 85,931\$, Disbursed: 28,030\$ Estimated disbursement in 2021: all remaining contract value (installments: IC.2019.09.04 - 2 times, C.2020.09.03 - 4 times )	
	Act. 3: Peer review the related products	x	x	x	UNDP	MOC	GEF	71300	Local Consultants	743	
	Act 4: Develop an online SECs and energy benchmark system & information disclosure for public application.	x	x		UNDP	MOC	GEF	71300	Local Consultants	Contract signed in 2019,2020: 8,052\$, Disbursed: 0\$ Estimated disbursement in 2021: all remaining contract value (4 installments)	
	<b>Activity Result 1.2.3.2: A building energy benchmarking system developed and implemented</b>									Developed this year only.	
	Act. 1: Finalize the building energy benchmarking system	x			UNDP	MOC	GEF			Cost combined in 1.2.3.1. The workshop is combined in 1.2.3.1.	
	<b>Activity Result 1.2.3.3: Information Disclosure Program developed for commercial and high-rise residential</b>										
	Act. 1: Develop the information disclosure program	x	x		UNDP	MOC	GEF			Combined in the contract with NC on establishment of the energy labeling system	
<b>Total for Output No. 1.2.3</b>								<b>743</b>			
<b>Output No. 1.2.4</b> <b>Completed energy consumption survey of selected commercial and high-rise residential buildings</b>  <b>Indicators:</b> 1. # buildings surveyed in the North, South and Centre <b>Baseline 2020:</b> 1. 195 sets of survey results available in 2020 with all survey reports submitted and approved. <b>Target 2021:</b> Technical reports to be approved by PMU. <b>MoV:</b> 1. all additional sets of survey results. 2. Technical reports; 1.2. Annual Progress Report	<b>Activity Result 1.2.4.1: Studied energy consumption of selected buildings in the North implemented</b>										
	Act. 1: Quality assure the surveys and related database	x			UNDP	MOC	GEF	71300	Local Consultants	0	Contract signed in 2018,2020: 38,895\$ Disbursed: 19,640\$ Estimated disbursement in 2021: all remaining contract value (3 installments) New tasks: US\$25,000
	Act.1. Carry out further studies on energy consumption of buildings in the North	x			UNDP	MOC	GEF	72100	Contractual services - Companies	Contract signed in 2020: 24,382\$ Disbursed: 0\$ Estimated disbursement in 2021: all remaining contract value (4 installments)	
	<b>Activity Result 1.2.4.2: Studied energy consumption of selected buildings in the South and Centre implemented</b>										
	Act.1. Carry out further studies on energy consumption of buildings in the South and Centre	x			UNDP	MOC	GEF	72100	Contractual services - Companies	Contract signed in 2020: 40,489\$ Disbursed: 32,391\$ Estimated disbursement in 2021: all remaining contract value (1 installments)	
	<b>Total for Output No. 1.2.4</b>								<b>0</b>		
	<b>Total for Outcome 1.2</b>								<b>5,213</b>		
<b>DSA and travel</b>		x	x	x	UNDP	MOC	GEF	71600	Travel Cost	0	For the PMU advisor, PMU staff and/ or consultants (cost to be included in a service contract as mention in component 3)
<b>Total for Outcome 1</b>								<b>10,566</b>			
<b>COMPONENT 2: Building Market Development Support Activities</b>											
<b>OUTCOME 2: Increased local capacity in the EE design, construction and operation of commercial and high-rise residential buildings</b>									<b>ATLAS ACTIVITY 3</b>		
Same as in Outcome 1	<b>Activity Result 2.1.0. International Technical Advisor providing technical inputs and advice to project activities.</b>										

EXPECTED OUTPUTS And baseline, associated indicators and annual targets	PLANNED ACTIVITIES	TIMEFRAME			RESPONSIBLE PARTY	PLANNED BUDGET			Challenges, solutions and other issues			
		Q1	Q2	Q3		Funding Source	Budget Description	Amount 2021 (USD)				
1	2	3	4	5	7	8	9	10	13			
	Act. 1: Provide PMU and consultants with guidances for implementation and completion of Com. 2 activities; Act. 2: Report the overall progress, quality of related activities and recommend next steps.	x	x	x	UNDP	MOC	GEF	71200	International Consultants	0		
<b>Project Output No. 2.1: Increased local capacity in the EE design, construction and operation of commercial and high-rise residential buildings</b> <b>Indicators:</b> 1. # innovative mechanisms for EE buildings; 2. Availability of economic evaluation toolkits for EE building projects.	<b>Activity Result 2.1.1: Innovative Mechanisms for EE Buildings developed and approved</b>											
	<b>Activity Result 2.1.2: Economic evaluation toolkits for EE building projects, data inputs and a detailed</b>											
	Act 1: Develop economic evaluation toolkits for EE building projects, data inputs and a detailed implementation plan - Consult with relevant stakeholders;	x	x			UNDP	MOC	GEF	71200	International Consultants		Included in the ISTA contract
<b>Total for Output No. 2.1</b>									<b>0</b>			
<b>Output No. 2.3: Trained CEEB staff to implement awareness and training programs to promote EE in the building sector</b> <b>Indicators:</b> 1. Availability of training curriculum 2. No of trainees (building project developers, design & appraisal consultants, appraisal officers of DOCs) that are trained on EE building designs, implementation and M&V by EOP <b>Baseline 2020:</b> 1.2. 432 trainees were trained on design, construction and appraisal of EE buildings (new buildings) and renovation of retrofitting buildings (existing buildings)	<b>Activity Result 2.3.1: Train Energy Assessors, construction practitioners to implement awareness and training programs to promote EE in the building sector</b>											
	Act. 1: Develop training curriculum after the training courses on design, construction and acceptant of renovation of existing buildings	x	x	x		UNDP	MOC	GEF	71300	Local Consultants	28,055	Contract signed in 2020: 35,068\$ Disbursed: 7,013\$ Estimated disbursement in 2021: all remaining contract value (2 installments)
	Act. 2: Develop training curriculum after the training courses on design, construction and acceptant of new buildings	x	x			UNDP	MOC	GEF	71300	Local Consultants	13,873	Contract signed in 2020: 17,341\$ Disbursed: 3,468\$ Estimated disbursement in 2021: all remaining contract value (2 installments)
	<b>Total for Output No. 2.3</b>									<b>41,928</b>		
<b>Output No. 2.4: Operational support program for ESCOs in the negotiation and implementation of building energy performance contracts</b>  As described in Output No. 2.3	<b>Activity Result 2.4.2: Design and implementation of a project communication program, especially an outreach program for ESCOs</b>											
	Act 1. Procure a national expert for writing and uploading news and articles on energy efficiency in buildings	x	x	x		UNDP	MOC	GEF	71300	Local Consultants	6,500	Contract signed in 2020: 8,218\$ Disbursed: 4,930\$ Estimated disbursement in 2021: all remaining contract value (1 installments)
	<b>Total for Output No. 2.4</b>									<b>6,500</b>		
	<b>Communication (printing cost)</b>	x	x			UNDP	MOC	GEF	74200	Audio Visual & Print Prod Costs	0	Cost for design and publication of training documents as mentioned at 2.3.1 to be
	<b>DSA and travel</b>	x	x	x		UNDP	MOC	GEF	71600	Travel Cost	0	For the PMU advisor, PMU staff and/ or consultants (cost to be included in a service contract as mention in component 3)
<b>Total for Outcome 2</b>									<b>48,428</b>			
<b>COMPONENT 3: Building EE technology applications and replications</b>												
<b>OUTCOME 3: Increased use of EE building materials and application of EE building technologies in HCMC and Hanoi</b>									<b>ATLAS ACTIVITY 4</b>			
Same as in Outcome 1	<b>Activity Result 3.0. International Technical Advisor providing technical inputs and advice to project activities.</b>											
	Act. 1: Provide PMU and consultants with guidances for implementation and closure of Com. 2 activities; Act. 2: Report the overall progress, quality of related activities and recommend next steps.	x	x	x		UNDP	MOC	GEF	71200	International Consultants	0	Contract signed in 2017,2019: 205,200\$ Disbursed: 175,800\$ Estimated disbursement in 2021: all remaining contract value (1 installments)

EXPECTED OUTPUTS And baseline, associated indicators and annual targets	PLANNED ACTIVITIES	TIMEFRA			RESPONSIBLE PARTY	PLANNED BUDGET			Challenges, solutions and other issues		
		Q1	Q2	Q3		Funding Source	Budget Description	Amount 2021 (USD)			
		3	4	5		7	8	9		10	13
<b>Output No.3.2: Completed demonstrations of the design, application and operation of EE equipment, building materials and - design</b>	<b>Activity Result 3.2.1: Demonstration of EE in buildings of new buildings (4-6 new buildings) implemented</b>										
<b>Indicators:</b> 1. No. of demonstration projects that adopted EE equipment, building materials and building energy monitoring and management/control systems promoted by the EECB project ; 2. No. of completed M&V exercises in accordance with the guidelines proposed by the project; <b>Baseline 2020:</b> 1.2. 17, 3 respectively as baseline indicators at the project outset. 08 new buildings selected with compliance check reports completed in 2017, 2018, 2019 & 2020. <b>Target 2021:</b> 1.2 5 new buildings &22 existing buildings this year. <b>MoV:</b> 3. Technical support reports. 4. Designs with action plans approved by PMU and UNDP; 4. Annual Progress Report.	Act 1. Develop progress reports on technical support to the demonstration buildings	x			UNDP	MOC	GEF	71300	Local Consultants	43,669	The remaining instalments of the long-termed demo and 03 short-termed contracts signed by UNDP
	Act 2. Develop the technical support reports for the demonstration projects during construction and running test and final report	x	x		UNDP	MOC	GEF	71300	Local Consultants		
	Act 3. Assess the green certification for a piloting building technically supported by	x	x		UNDP	MOC	GEF	71300	Local Consultants	15,560	Including EE certification contract admendment value + green building
	Act 3. Organize a contest on EE in building/ Green building design.			x		MOC	GEF	75700	Training, Workshops and Conference		This new idea needs to be further consulted with potential partners such as Hanoi Architecture University, Hanoi Civil Engineering Universit, etc.. The cost therefore will be determined later.
	Act 4 Develop a code compliance check guideline	x	x	x	UNDP	MOC	GEF	71300	Local Consultants	1,500	
	Act 5. Review and provide inputs for improvement of EE-related education curriculum upgraded by a technical university	x	x	x	UNDP	MOC	GEF	71300	Local Consultants	14,000	
	Act 6. Develop materials for training courses on design, construction and acceptance of EE buildings	x	x	x	UNDP	MOC	GEF	71300	Local Consultants	31,899	
	Act.7: Develop the web-based OTTV software	x	x	x	UNDP	MOC	GEF	72100	Contractual services - Companies	20,848	
	<b>Activity Result 3.2.2: Demonstration of EE in buildings of existing buildings (10 - 12 existing buildings) implemented.</b>										
	Act 1. Develop detailed audit reports and renovation & testing run plans	x	x		UNDP	MOC	GEF	72100	Contractual services - Companies		
	Act 2. Develop energy survey reports, feasibility study report, technical support reports for each selected buildings and related progress reports. & final report	x			UNDP	MOC	GEF	72100	Contractual services - Companies	25,957	The remaining instalment of the long-termed demo contracts to support existing buildings
	Act 3. Procure a team for further development/ enhancement of the SEC and energy benchmark activities in Vietnam	x	x	x	UNDP	MOC	GEF	72100	Contractual services - Companies	29,011	
	Act. 4: Provide guidance to the assessment team and consolidate energy saving potentials	x	x	x	UNDP	MOC	GEF	71300	Local Consultants	7,500	
	Act 5. Provide advice and peer review of the assessment results of energy saving potentials and future opportunies for energy efficient buildings	x	x		UNDP	MOC	GEF	71200	International Consultants	2,500	
	<b>Activity 3.2.3 :Purchased and installed monitoring equipment for demonstration projects</b>										

EXPECTED OUTPUTS And baseline, associated indicators and annual targets	PLANNED ACTIVITIES	TIMEFRAME			RESPONSIBLE PARTY	PLANNED BUDGET			Challenges, solutions and other issues		
		Q1	Q2	Q3		Funding Source	Budget Description	Amount 2021 (USD)			
1	2	3	4	5	7	8	9	10	13		
	Act 1. Design integrated M&V and BMS equipment systems	x	x		UNDP	MOC	GEF	71300	Local consultants	650	
	Act 2. Purchase and installation of monitoring equipment for demonstration projects.	x	x	x	UNDP	MOC	GEF	72100	Contractual services - Companies	55,000	Estimated. It can be increased based on the actual needs of the buildings. In order to ensure the related progress, PMU will discuss and agree with UNDP on the M&V purchase and installation host entity (PMU/UNDP/ building owner) depending on actual situations arising during the project implementation process
<b>Activity Result 3.3.2: Technical and Coordination support to project activities provided</b>											
	Act 1. Provide technical and coordination support to project activities <b>and closing</b>	x	x	x	UNDP	MOC	GEF	71800	Project Staff	62,568	NSTA, NTS, PSO's salary
<b>Total for Output No. 3.2</b>									<b>310,661</b>		
<b>Output No.3.3: Documented and disseminated results and lessons from the demonstrations of implementing EEBC and EE&amp;C in new and existing buildings</b>											
<b>Indicators:</b>											
1. # lessons documented and shared;											
<b>Baseline:</b> 1. 06 demo buildings implemented by USAID, DANIDA and IFC and 22 selected buildings can be lessons learnt for project demo.											
<b>Target:</b> 1. A lesson-learnt report submitted to PMU in QII.											
<b>MoV:</b>											
1. Lesson-learnt report;											
1. Annual Progress Report											
<b>Activity Result 3.3.1: Documented results and lessons from the demonstration projects</b>											
	Act 1. Support demonstration activities and collect, analyze and summarize all related lessons.	x			UNDP	MOC	GEF	71200	International Consultants		Contract signed in 2018: 143,500\$ Disbursed: 108,500\$ Estimated disbursement in 2021: all remaining contract value (2 installments)
	Act. 2: Support the organization of events relevant to EE buildings (green building weeks/smart cities, energy/others), training courses and project workshops	x	x	x	UNDP	MOC	GEF	72100	Contractual services - Companies	133,846	Include consultancy costs and part of event organization costs
	Act 3. Organize workshops to promote the development of EE and/or green buildings/sites		x		UNDP	MOC	GEF	75700	Training, Workshops and Conference	0	Cost covered In Act 3.3.1.3
	Act 4. Develop publications for development of EE/green buildings	x			UNDP	MOC	GEF	71300	Local Consultants	15,500	Including cost for production of a publication on development of EE/green buildings
	Act 5. Organize the project closing workshop	x	x	x	UNDP	MOC	GEF	75700	Training, Workshops and Conference	0	Cost covered In Act 3.3.1.3
	Act 6. Document technical deliverables of EECB project for wide dissemination		x	x	UNDP	MOC	GEF	71300	Local Consultants	6,500	
<b>Total for Output No. 3.3</b>									<b>155,846</b>		
	<b>Communication</b>	x			UNDP	MOC	GEF	74200	<b>Audio Visual &amp; Print Prod Costs</b>	11,983	For construction magazine and EECB 18
	<b>DSA and travel</b>	x	x	x	UNDP	MOC	GEF	71600	<b>Travel Cost</b>	0	For the PMU advisor, PMU staff and/ or
	<b>Advertisement Cost</b>	x	x	x		MOC	GEF	72100	<b>Contractual services -</b>	1,298	
	<b>Technical inputs and analysis to link the project with broader climate change agenda</b>	x	x	x	UNDP		GEF	71300	<b>International Consultants</b>	55,000	
<b>Total for Outcome 3</b>									<b>534,788</b>		



EXPECTED OUTPUTS And baseline, associated indicators and annual targets	PLANNED ACTIVITIES	TIMEFRA			RESPONSIBLE PARTY	PLANNED BUDGET			Challenges, solutions and other issues			
		Q1	Q2	Q3		Funding Source	Budget Description	Amount 2021 (USD)				
1	2	3	4	5	7	8	9	10	13			
<b>Project Management</b>									<b>ATLAS ACTIVITY 5</b>			
<b>Indicators:</b> 1. % disbursement rate; 2. # management/ field review reports submitted timely; <b>Baseline:</b> 1&2 1 PM, 1 NTS and 1 accountant/ admin recruited in 2016. <b>Target:</b> 1. 80% budget disbursed this year and all management/ field reports submitted timely; 2. 100% management report submitted timely. <b>MoV:</b> 1&2. Project records 1. Annual Progress Report	Salary for Project Staff	x			UNDP	MOC	GEF	71800	Project Staff	36,477	Salary for Admin/ Accountant and PM	
	Office's equipment	x	x	x	UNDP	MOC	GEF	72200	Equipment and Furniture	1,000		
	Office supplies	x	x	x	UNDP	MOC	GEF	72500	Office supplies	608		
	Project Management Meeting Cost	x				MOC	GEF	75700	Training, Workshops and Conference	500		
	Project Final-term Review (FR)		x			UNDP		GEF	71200	International Consultants		
			x			UNDP		GEF	71300	Local Consultants		
	Review the project impacts on energy savings and tracking tools	x	x		UNDP	MOC	GEF	71200	International Consultants	10,500	To be hired in Q1.2021	
	Audit		x		UNDP		GEF	74100	Audit	2,000		
Others	x	x	x	UNDP	MOC	GEF	74500	Miscellaneous	500	Cost for office electricity, telephone and office IT maintenance.		
<b>Total for Outcome 4</b>									<b>51,585</b>			
<b>TOTAL FOR YEAR 2021</b>									<b>645,367</b>			