ANNUAL WORK PLAN 2020

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 tCO2e. The cumulative direct reduction in GHG emissions over the lifetime of the project is envisioned to be 236,382 t CO2e.

Brief Summary of the AWP 2020

This is the forth year of the project implementation with key project outputs expected to be delivered. Overall, the 2020 annual work plan aims at providing Ministry of Construction and related beneficiaries with technical assistance in (i) improvement of the policy framework for promotion of energy efficiency (EE) use in buildings i.e. revision of relevant legal documents and promulgation of EE construction material standards and updated technical – economic cost norm; (ii) finalization and publication of established specific energy consumption profiles and energy benchmarks for different categories of high-rise buildings; (iii) continued development of related training materials and delivery of in-depth training to building practitioners in energy audit for high-rise buildings; (iv) development of guidelines for design of energy efficiency buildings and (v) measurement and verification of actual energy consumption of demonstration buildings.

Expected Results

- At least 05 standards related to EE properties of building materials are promulgated;
- Specific energy consumption profiles (SEC) and related national energy consumption benchmarks are published for 5 typologies of buildings in 2 climate zones;
- Energy labeling is piloted for selected buildings and information disclosure programme is prepared.
- At least 02 technical training courses organized for at least 60 beneficiaries regarding energy efficient use in high-rise buildings;
- Technical support is provided to 08 selected new and 12 existing buildings, and Monitoring and verification equipment is well installed in at least 06 supported buildings;
- EE design guidelines is drafted and consulted;
- Key lessons are recorded and shared nationwide through national workshops.

Programme Period:	2012-2016	Estimated annualized budg	et: US\$	902,000
Atlas Award ID:	00084022	Allocated resources:	US\$	902,000
Project ID: PIMS #	00092225 5245	o GEF:	US\$	902,000
Start date:	05 April 2016	o Government		
End Date	05 April 2020	o Others:		
Management Arrangements	NIM			

Agreed by Executing Entity:

Vu Ngoc Anh

National Project Director

Director General, Department of Science, Technology and

Date:

Date: 1/Feb 2020

Environment, MOC

Agreed by UNDP:

Sitara Syed

Deputy Resident Representative

United Nations Development Programme

Project code & title: Implementing Partner:

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

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EXPECTED OUTPUTS		TIM	EFRA	ME	DECRONO	CIDITE		PLA	ANNED BUDGET				
And baseline, associated indicators and annual targets	PLANNED ACTIVITIES	Q1 Q	Q2 Q3	Q4	RESPONS	0.55535500	Funding Source	Bue	dget Description	Amount 2020 (USD)	Commitment 17-19 (USD)	Total (USD)	Challenges, solutions and other issues
1	2	3	4 5	6	7		8		9	10	11	12	13
UN One Plan Output 1.3.3: A national system	for Reduced Emissions from Deforestation a	nd fores	t Degr	radat	ion (REDD), and N	Nationally	Appropr	riate Mitigation Acti	ons (NAMAs)	for a number	of strategically	chosen sectors and localities are formulate
and operationalized with clear potential bene-	fits		100		2	**		• • • •	9			or or megicani,	enosen sectors and localities are formulate
Output Indicator 1: Number of sub-sectors/ c	ties/ towns/ provinces with NAMAs develope	l and su	bmitte	ed to	an internat	tional re	egister						
COMPONENT 1: Improvement and E												older Janes	
	Activity Result 1.0 : All output results plann	ed in thi	s year	are	well guided	d.							
	Act. 1: Provide PMU and consultants with guidances for implementation of Com. 1 activities; Act. 2: Report the overall progress, quality of related activities and recommend next steps.	x	x x	x	UNDP	мос	GEF	71200	International Consultants	0	0	0	Cost to be covered in Component 3.
Outcome 1.1: Enforced, improved and compr	ehensive policy, legal, and regulatory framew	orks on	the en	ergy	efficient de	esign, co	onstructio	n and op	eration of				ATLAS ACTIVITY 1
commercial and high-rise residential building	S										A PART OF THE PART		
Indicator:													
% of DOCs and building practitioners nationwid	e that reference EEBC compliance toolkits and	guideline	devel	oped	by the base	eline and	the project	ets;					
% of applications for new commercial and high-			comp	oly w	ith EEBC 20	:013;							
# of national testing standards for energy perform													
# of existing and new commercial buildings and	high-rise residential buildings in Viet Nam certi	fied as E	E buil	ding	S:								
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Target: • 30% of DOCs nationwide and 20% of buildings by EECB project. MoV: N/A 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 materials and enduse equipment 2. Number of policies/ roadmaps and regulations on EE issued etc. Baseline 2019: 1. Energy performance data of construction materials and end-use equipment has been uploaded to MOC website. 2. 05 draft standards on energy characteristics of construction materials were drafted and approved by MOC; 01 draft technical and economic cost norm of EE in buildings consulted widely with MOC experts;	Activity Result 1.1.1.1: Developed complian Activity Result 1.1.1.3: Prepared technical a Act. 1: Develop the report to justify technical are economic benefits of EE promotions in buildings Act 2. Peer review the report Activity Result 1.1.1.4: A completed roadma Act. 1: Update the roadmap and action plans with inputs from project results and Act. 1: Consult with relevant stakeholders for promulgation. - Result consultation WS (50 pax); Activity Result 1.1.1.5: Developed standards Act. 1: Ensure 05 standards on construction materials promulgated.	p and ac	lines a mile julia de la comica del comica de la comica del la comica dela comica del la comica del la comica del la comica del la comica	n Vie ed to	undp 1 undp 1	EE pron MOC MOC en EE pr MOC MOC ication	notions in GEF GEF TOMORIONS GEF GEF	the build 71200 71300 in the bu 71300 75700	ling sector in Viet International Consultants Local Consultants illding sector in Viet Local Consultants Training, Workshops and Conference Contractual services	1.500	45.000	15.000 1.500 6.000 2.500	To be advised by ISTA To be developed by the IE on EE in building with inputs from new and retrofit consultant Estimated: 20 mandays plus 1 mission. To be advised by ISTA Contract signed in 2018. Value: 57,615\$. Disbursed: \$44,991 Estimated disbursement in 2020: \$11,248
Target: • 30% of DOCs nationwide and 20% of buildings by EECB project. MoV: N/A 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 materials and enduse equipment 2. Number of policies/ roadmaps and regulations on EE issued etc. Baseline 2019: 1. Energy performance data of construction materials and end-use equipment has been uploaded to MOC website. 2. 05 draft standards on energy characteristics of construction materials and end-use drafted and approved by MOC; 01 draft technical and economic cost norm of EE in buildings consulted widely with MOC experts; Target 2020:	Activity Result 1.1.1.1: Developed complian Activity Result 1.1.1.3: Prepared technical a Act. 1: Develop the report to justify technical are economic benefits of EE promotions in buildings Act 2. Peer review the report Activity Result 1.1.1.4: A completed roadma Act. 1: Update the roadmap and action plans with inputs from project results and Act. 1: Consult with relevant stakeholders for promulgation. Result consultation WS (50 pax); Activity Result 1.1.1.5: Developed standards Act. 1: Ensure 05 standards on construction materials promulgated. Act. 2: Ensure the upgraded existing technical	p and ac	lines a mile julia de la comica del comica de la comica del la comica dela comica del la comica del la comica del la comica del la comica	n Vie ed to	undp 1 undp 1	EE pron MOC MOC en EE pr MOC MOC ication	notions in GEF GEF TOMORIONS GEF GEF	the build 71200 71300 in the bu 71300 75700	ling sector in Viet International Consultants Local Consultants illding sector in Viet Local Consultants Training, Workshops and Conference Contractual services - Companies	1.500	45,000	15.000 1.500 6.000 2.500	To be advised by ISTA To be developed by the IE on EE in building with inputs from new and retrofit consultant Estimated: 20 mandays plus 1 mission. To be advised by ISTA Contract signed in 2018. Value: 57,615\$. Disbursed: \$44,991
Farget: • 30% of DOCs nationwide and 20% of buildings by EECB project. MoV: N/A 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 materials and enduse equipment 2. Number of policies/ roadmaps and regulations on EE issued etc. Baseline 2019: 1. Energy performance data of construction materials and end-use equipment has been uploaded to MOC website. 2. 05 draft standards on energy characteristics of construction materials were drafted and approved by MOC; 01 draft technical and economic cost norm of EE in buildings consulted widely with MOC experts; Target 2020: 2. 05 standards and 01 technical and economic	Activity Result 1.1.1.1: Developed complian Activity Result 1.1.1.3: Prepared technical a Act. 1: Develop the report to justify technical are economic benefits of EE promotions in buildings Act 2. Peer review the report Activity Result 1.1.1.4: A completed roadma Act. 1: Update the roadmap and action plans with inputs from project results and Act. 1: Consult with relevant stakeholders for promulgation. - Result consultation WS (50 pax); Activity Result 1.1.1.5: Developed standards Act. 1: Ensure 05 standards on construction materials promulgated. Act. 2: Ensure the upgraded existing technical and economic norms of energy efficiency	p and ac	x x x x	n Vie ed to	undp 1	EE pron MOC MOC en EE pr MOC MOC ication	notions in GEF GEF TOMORIONS GEF GEF	the build 71200 71300 in the bu 71300 75700	ling sector in Viet International Consultants Local Consultants ilding sector in Viet Local Consultants Training, Workshops and Conference Contractual services - Companies Contractual services	1.500		15.000 1.500 6.000 2.500	To be advised by ISTA To be developed by the IE on EE in buildin with inputs from new and retrofit consultan Estimated: 20 mandays plus 1 mission. To be advised by ISTA Contract signed in 2018. Value: 57,615\$. Disbursed: \$44,991 Estimated disbursement in 2020: \$11,248
Target: • 30% of DOCs nationwide and 20% of buildings by EECB project. MoV: N/A Output 1.1.1: Improved and enforced implementing policy framework and regulations on EE in buildings Indicators:	Activity Result 1.1.1.1: Developed complian Activity Result 1.1.1.3: Prepared technical a Act. 1: Develop the report to justify technical are economic benefits of EE promotions in buildings Act 2. Peer review the report Activity Result 1.1.1.4: A completed roadma Act. 1: Update the roadmap and action plans with inputs from project results and Act. 1: Consult with relevant stakeholders for promulgation. Result consultation WS (50 pax); Activity Result 1.1.1.5: Developed standards Act. 1: Ensure 05 standards on construction materials promulgated. Act. 2: Ensure the upgraded existing technical	ce guidel nd econo d y	x x x x	n Vie ed to	undp 1	EE pron MOC MOC en EE pr MOC MOC MOC MOC MOC MOC MOC	motions in GEF GEF GEF GEF GEF	the build 71200 71300 in the bu 71300 75700	ling sector in Viet International Consultants Local Consultants idding sector in Viet Local Consultants Training, Workshops and Conference Contractual services - Companies	1.500	45.000	15.000 1.500 6.000 2.500 45.000	To be advised by ISTA To be developed by the IE on EE in building with inputs from new and retrofit consultant Estimated: 20 mandays plus 1 mission. To be advised by ISTA Contract signed in 2018. Value: 57,615\$. Disbursed: \$44,991 Estimated disbursement in 2020: \$11,248 Contract signed in 2019. Value: \$ 27,840.

EVENOTED OVERVING		TI	MEF	RAN	ME		7		PL	ANNED BUDGET				
EXPECTED OUTPUTS And baseline, associated indicators and annual targets	PLANNED ACTIVITIES			Q3	1	RESPON PAR		Funding Source		dget Description	Amount 2020 (USD)	Commitment 17-19 (USD)	Total (USD)	Challenges, solutions and other issues
1	2	3	4	5	6	7		8		9	10	11	12	13
.2 Technical reports (& standards); .2. Annual Progress Report	Act. 3: Consult with relevant stakeholders to finalize the reports and then disseminate them; - Result consultation WS for Act. 1 (30 pax); - Result consultation WS for Act. 2 (50 pax)			x	x	UNDP	мос	GEF	7570	Training, 0 Workshops and Conference	5.000		5.000	Cost covered by PMU.
	Activity Result 1.1.1.6: Analysed and defined	scop	e to s	suppo	ort ti	he drafti	ng and r	evision of	related la	aws and decree				
	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	x	UNDP	мос	GEF	7130	0 Local Consultants	25.000		25.000	
	Act. 2: Organize consultation workshops on the inputs to amendments of policies.		х			UNDP	мос	GEF	7570	Training, 0 Workshops and Conference	10,000		10,000	A ministerial level workshop to improve existing policies.
	Total for Output No. 1.1.1										65,000	71.784	136.784	
certification scheme for buildings. Indicators: 1. Availability of a building	Activity Result 1.1.2.1: An EE certification, la Act.1: Define an energy labeling ranking system based on available SECs and energy benchmarks	x			iolog	gy for bu UNDP	MOC		7130	0 Local Consultants	3.456	9.164	12.620	Contract signed in 2017: \$33,000. Disburse \$23,551 Estimated disbursement in 2020:
ertification/labelling scheme b. Number of buildings tested. Baseline 2019: 1&2.EE certification scheme for buildings developed but not yet operated at the	Act.2: Test the labeling system at a number of selected buildings based on recommended SECs and energy benchmarks recommended by EECB project		x			UNDP	мос	GEF	7210	Contractual services - Companies	15.000		15.000	
project outset. Intenrational experience in EE labeling was summarized. Farget 2020:1. EE certification scheme for buildings established operated at the project	Act 3: Consult the final results of the energy labeling system for finalization of the related report (40 pax)			x	x	UNDP	мос	GEF	7570	Training, 0 Workshops and Conference	5.000		5.000	Organized in both Hanoi and HCM
outset 2. 10 buildings tested with energy labeling in QIII.2020. MoV:	Act 4: Develop an energy labeling circular to enable the application of established SEC profiles and energy benchmark system.	x	x	x	x	UNDP	мос	GEF	7210	Contractual services - Companies	0		0	
1.1 Related report; 1.2. Annual Progress Report	Act 5: Develop a report on recommendations of next steps for comprehensive SEC profiles and energy benchmarks for Viet Nam	x	х	х		UNDP	мос	GEF	71200	International Consultants			0	Combined in the cost for international exp in 1.2.3.1.
	Total for Output No. 1.1.2									11/2	23.456	9.164	32.620	
	Total for Outcome 1.1										88.456	80.949	169,405	
Outcome 1.2: Strengthened compliance of the	energy efficiency building code for commercia													ATLAS ACTIVITY 2
Output No. 1.2.1	Activity Result 1.2.1: Beyond-code guidelines		high	her l	evel	of EE in	building	designs a	nd opera	ations developed				
Approved guidelines that support EE building initiatives and market Indicators: 1. # EE design guideline developed. Baseline 2019: 1. No EE design guideline available at the project outset.	Act 1. Procure an international expert to develop the design guidelines for code compliance guidelines	x	x	x		UNDP	мос	GEF	71200	International Consultants	30.000		30,000	35 - 40 man-days estimated plus 02 return flights.
Target 2020: 1. 01 EE design guideline available in QIII.2020 M&V:	Act 2. Develop the guidelines			x	x									
Draft technical guideline; Annual Progress Report.	Total for Output No. 1.2.1										30,000	0	30.000	
Output No. 1.2.2	Activity Result 1,2,2,3: The M&V scheme test	ted o	n sel	ected	EE	building	zs.							Combined in 1.1.2.2.

EXPECTED OUTPUTS		TI	MEI	FRAN	ME				PL	ANNED BUDGET				
And baseline, associated indicators and annual targets	PLANNED ACTIVITIES			Q3		PAI	NSIBLE RTY	Funding Source		dget Description	Amount 2020 (USD)	Commitment 17-19 (USD)	Total (USD)	Challenges, solutions and other issues
Donabasea una imprementea variante una	2			5			7	8		9	10	11	12	13
project measurement & verification (M&V)	Activity Result 1.2.2.4: A project M&E tool es	tabl	lishe	d and	lap	plied.								
scheme Indicators: 1. Number of buildings tested with M&V scheme; Baseline 2019: 1. The building M&V scheme	Act. 1: Carry out data collection for project M&E results at final phase	x	x	x	x	UNDP	мос	GEF	72100	Contractual services - Companies	1.881	19.659	21.540	Contract signed in 2018: \$28,513, Disbursed:\$17,056 Estimated disbursement in 2020:
available at project level in 2019. Target 2020: 1. 10 buildings tested with energy M&V in QIII.2020 M&V:		х	х			UNDP	мос	GEF	71300	0 Local Consultants	5.615		5.615	Incremental cost for annual M&E report 2020: 1,890\$.
Technical report. Annual Progress Report	Act. 3: Develop the 2020 project M&E report				x	UNDP	мос	GEF						Payment combined above.
	Total for Output No. 1.2.2										7.496	19.659	27.155	
Output No. 1.2.3	Activity Result 1.2.3.1: SEC profiles for build	ings	deve	elope	d									
Established and implemented building energy benchmarking system that is linked to the certification scheme Indicators: 1. Availability of a building energy	Act. I:Finalize the SEC and energy benchmark report	х				UNDP	мос	GEF	71200	International Consultants	25.000	8.873	33.873	Contract signed in 2018: \$28,513, Disbursed: \$35,320 Estimated disbursement in 2020: Cost to be added for an extended SEC:
benchmarking system that is linked to the certification scheme Baseline 2019: 1. No building energy benchmarking system and an information	Act.2: Organize consultation WS on results (30 pax)			x		UNDP	мос	GEF	75700	Training, Workshops and Conference	5.000		5.000	15.000
disclosure program available at the project outset. An energy consumption database of 165 buildings available at MOC. Target 2020:	Act. 3: develop 04 standards on SEC profiles and energy benchmark system for Viet Nam.	x	х	x	x	UNDP	мос	GEF	71300	Local Consultants		55.510	55,510	Contract signed in 2019: 55,510\$, Disbursed: 5,551 Estimated disbursement in 2020: 49,9559\$
1.SEC and building energy benchmarking system is established in QI.2020. MoV: 1. Technical report;	Act 4: Develop an online SECs and energy benchmark system & information disclosure for public application.	x	x	x		UNDP	мос	GEF	72100	Contractual services - Companies	50,000		50.000	
Annual Progress Report	Activity Result 1.2.3.2: A building energy bene	hma	arkin	g sys	tem	develop	ed and in	nplemented					0	Developed this year only.
	Act. 1: Develop the building energy benchmarking system				x	UNDP	мос	GEF					0	Cost combined in 1.2.3.1. The workshop is combined in 1.2.3.1.
	Activity Result 1.2.3.3: Information Disclosure	e Pr	ogra	m de	velo	ped for c	ommerc	ial and high	ı-rise res	sidential buildings				
	Act. 1: Procure a national expert to help develop the information disclosure program		х	х	x	UNDP	мос	GEF	71300	Local Consultants	3.000		3.000	
	Act 2: Peer review the recommended disclosure program			x	x	UNDP	мос	GEF	71300	Local Consultants	2.000		2.000	
	Total for Output No. 1.2.3										85.000	64,383	149,383	
Output No. 1.2.4	Activity Result 1.2.4.1: Studied energy consum	ptio	n of	select	ted	buildings	in the N	orth imple	mented			0.41000	147,505	
selected commercial and high-rise residential		x	x			UNDP	мос	GEF	110,00		0	0	o	NC on SEC's contract was signed in 2018.
Annual Con-	Act.1. Carry out further studies on energy consumption of buildings in the North	x	x	x		UNDP	мос	GEF	72100	Contractual services - Companies	25.000		25.000	
Indicators:	Activity Result 1.2.4.2: Studied energy consum	ptio	n of	select	ted l	buildings	in the Se	outh and C	entre im	plemented				

EXPECTED OUTPUTS		TIM	AEFI	RAN	4E	DECROS	ICITAL TO		PLA	NNED BUDGET		6 0		
And baseline, associated indicators and annual targets	PLANNED ACTIVITIES	Q1	Q2	Q3	Q4	RESPON PAR		Funding Source	Buc	lget Description	Amount 2020 (USD)	Commitment 17-19 (USD)	Total (USD)	Challenges, solutions and other issue
1	2	3	4	5	6	7		8		9	10	11	12	13
. # buildings surveyed in the North, South and Centre Baseline 2019:	Act.1. Carry out further studies on energy consumption of buildings in the South and Centre	x	x	x		UNDP	мос	GEF	72100	Contractual services - Companies	25.000		25.000	
. 165 sets of survey results available in 2019	Total for Output No. 1.2.4								7 17		50,000	0	50.000	
vith all survey reports submitted and approved.	Total for Outcome 1.2					,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,					172.496	84.042	256.538	
Target 2020: 1.At least 15 additional building urveyed completed in II.2020 for finalization of	DSA and travel	x	x	x	x	UNDP	мос	GEF	71600	Travel Cost	4.500		4,500	For the PMU advisor, PMU staff and/ or consultants
ne SEC and energy benchmarks for Viet Nam. 16V:	Translation Cost	x	x	x	x	UNDP	мос	GEF	74200	Translation cost	500		500	
. all additional sets of survey results. 2. Technical draft reports; 2. Annual Progress Report	Advertisement Cost	x	x	x	x	UNDP	мос	GEF	72100	Contractual services - Companies	500		500	
	Other Cost	x	x	x	x	UNDP	мос	GEF	74500	Miscalleneous	500		500	
Total for Outcome 1											266,952	164,991	431.943	
COMPONENT 2: Building Market Dev	velopment Support Activities													
OUTCOME 2: Increased local capacity in the	EE design, construction and operation of comm	merc	ial ar	nd h	igh-	rise resid	lential b	uildings						ATLAS ACTIVITY 3
ame as in Outcome 1	Activity Result 2.1.0. International Technical	Advi	sor p	rovi	idin	g technic	al inputs	and advice	e to proje	ect activities.	1			
	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	х	X	UNDP	MOC	GEF	71200	International Consultants	0	0	0	
Project Output No. 2.1: Increased local	Activity Result 2.1.1: Innovative Mechanisms	for l	EE B	nildi	ings	develope	d and a	oproved						
repactive to 221 appacity in the EE design, construction and operation of commercial and high-rise residential buildings	Act 1.: Review incentive mechanisms and develop appropriate one(s) for Viet Nam.	x	x	х		UNDP	мос	GEF	71300	Local Consultants		11.464	11.464	Contract signed in 2018: \$28,513, Disbursed: \$2,865 Estimated disbursement in 2020:
Indicators: I. # innovative mechanisms for EE buildings; Availability of economic evaluation toolkits	Act. 2.: Procure an international expert to peer review the international incentive mechanisms applicable to Viet Nam.	x	х	x		UNDP	мос	GEF	71200	International Consultants		5.420	5.420	Contract signed in 2018: \$5,420, Disbursed:0 Estimated disbursement in 2020: \$5,420
for EE building projects. Baseline 2019: 1&2. No innovative mechahisms and economic evaluation toolkits for EE buildings developed yet.	Act. 3: Organize a consultation workshop on the incentive proposed for Viet Nam (30 pax)				x	UNDP	мос	GEF	75700	Training, Workshops and Conference	2.000		2.000	
Γarget 2020:	Activity Result 2.1.2: Economic evaluation too	olkits	for l	EE I	ouile	ding proje	ects, data	inputs an	d a detai	led implementation		STEEL ST		
An innovative mechanism proposed to PMU n QII.2020. A draft economic evaluation toolkit report submitted to PMU in QIII.2020. MaN.	Act 1: Develop economic evaluation toolkits for EE building projects, data inputs and a detailed implementation plan - Consult with relevant stakeholders;		х	x	x	UNDP	мос	GEF		Local Consultants	10,000	0	10.000	
MoV: 1. Final mechanism. 2. Economic evaluation toolkits;	Act 2: Provide inputs to the draft toolkits		x	x	x	UNDP	мос	GEF	71200	International Consultants	20.000		20,000	
&2. Annual Progress Report	Act 3: Peer review the recommended toolkit			x	x	UNDP	мос	GEF	71300	Local Consultants	1.500		1.500	
	Total for Output No. 2.1		W.								33,500	16.884	50.384	
Output No. 2.3: Trained CEEB staff to	Activity Result 2.3.1: Train Energy Assessors			.41			re to imp	lament ow		ad testatas				To be supported by ISTA

EXPECTED OUTPUTS		TI	MEH	RA	ME		4 1 7		PL	ANNED BUDGET				
And baseline, associated indicators and annual targets	PLANNED ACTIVITIES	Q1	Q2	Q3	Q4	The state of the s	NSIBLE RTY	Funding Source	Bu	dget Description	Amount 2020 (USD)	Commitment 17-19 (USD)	Total (USD)	Challenges, solutions and other issues
to promote DD in the bunding sector	2	3	4	5	6		7	8		9	10	11	12	13
Indicators: 1. Availability of training curriculum 2. No of trainees (building project developers, design & appraisal consultants, appraisal	Act. 1: Develop the training curriculum framework and main outlines for energy audits.	x	x			UNDP	мос	GEF	7210	Contractual services - Companies	35.000	0	35.000	Costs for outsourced trainers.
officers of DOCs) that are trained on EE building designs, implementation and M&V by EOP Baseline 2019: 1.2. 261 trainees were trained	Act. 2: Develop training curriculum after the training courses on design, construction and acceptal of new buildings	x	x	x	x	UNDP	мос	GEF	7130	D Local Consultants	18,000		18.000	
on design, construction and appraisal of EE buildings (new buildings); Target 2020: 1. A training frameworks, plan and training curriculum available in QIII. 2. At least 50 target trainees trained on energy audit	Act 3. Carry out the training courses		x	x		UNDP	мос	GEF	75700	Training, Workshops and Conference	25.000		25.000	There will be 03 technical training courses implemented in 2020 covering all province in Viet Nam for energy assessors, energy consumption management agencies, energy consumption experts, etc.
for existing buildings in QIII.2020; MoV:	Act 3. Conduct post-training assessment			x	x	UNDP	мос	GEF	7130	Local Consultants			0	Cost combined in above-mentioned training courses.
1.2. Annual Progress Report	Total for Output No. 2.3										78.000	0	78,000	
Output No. 2.4: Operational support program	Activity Result 2.4.2: Design and implementa	tion	of a	proj	ect c	ommuni	cation pr	ogram, esp	ecially a	n outreach program				
or ESCOs in the negotiation and mplementation of building energy serformance contracts	Act 1. Procure a national expert for writing and uploading news and articles on energy efficiency in buildings	x	х	х	х	UNDP	мос	GEF	71300	Local Consultants	10,000		10.000	1 year added to cover tasks of extended period.
As described in Output No. 2.3	Total for Output No. 2.4					10.000	0	10.000						
	Translation Cost	x	x	x	x	UNDP	мос	GEF	74200	Translation cost	1.000		1.000	
	Advertisement Cost	x	x	x	x	UNDP	мос	GEF	72100	Contractual services - Companies	1.500		1.500	
	DSA and travel	x	x	x	x	UNDP	мос	GEF	71600	Travel Cost	2.500		2.500	For PMU staff and/ or consultants
The state of the second state of	Other Cost	x	x	x	x	UNDP	MOC	GEF	74500	Miscalleneous	500		500	
Total for Outcome 2											127,000	16.884	143.884	
COMPONENT 3: Building EE technology	ogy applications and replications													
OUTCOME 3: Increased use of EE building n	naterials and application of EE building techno	logie	s in	HC	MC:	and Han	pi							ATLAS ACTIVITY 4
	Activity Result 3.0. International Technical Ac							nd advice t	o projec	t activities				ATLAS ACTIVITY 4
	Act. 2: Provide PMU and consultants with guidances for implementation of Com. 2 activities; Act. 3: Report the overall progress, quality of related activities and recommend next steps.	x	х	х	х	UNDP	мос	GEF	71200	International Consultants	2.000	93.900	95,900	Contract amendment signed in 2019: \$32,20 + 14,700 (previous amendment), New contract: 49,000\$ (2,000 to be added this year) Disbursed: 0 Estimated disbursement in 2020: 95,900\$
Output No.3.2: Completed demonstrations of	Activity Result 3.2.1: Demonstration of EE in	build	ings	of n	new l	buildings	(4-6 new	v buildings) implem	ented				Target this year: 02-04 buildings
the design, application and operation of EE equipment, building materials and - design Indicators:	Act 1.Develop progress reports on technical support to the demonstration buildings	x	x	x	х	UNDP	мос	GEF	71300	Local Consultants	64.856	0	64 856	02 remaining instalments of the long-termed demo
1. % of new and retrofitted commercial and high- rise residential buildings that are partly or entirely based on EE building materials and	Act 2. Develop the technical support reports for the demonstration projects during construction and running test		x	x	x	UNDP	мос	GEF		Local Consultants				deinio Risk: some new buildings (Goldern Lotus an Yen Thuong Training Centre) may delay
applications being promoted and demonstrated;	Activity Result 3,2.2: Demonstration of EE in	build	ings	of e	xisti	ng build	ngs (10 -	12 existing	buildin	gs) implemented.				Target this year: 05 - 07 buildings

EVEROTED OUTDUTE		TIM	MEF	RA	ME				PLA	NNED BUDGET				
EXPECTED OUTPUTS And baseline, associated indicators and annual targets	PLANNED ACTIVITIES	Q1	Q2	Q3	10000	RESPON PAR	200222	Funding Source	Bud	get Description	Amount 2020 (USD)	Commitment 17-19 (USD)	Total (USD)	Challenges, solutions and other issues
1	2	3	4	5	6	7		8		9	10	11	12	13
EE equipment, building materials and building 1	Act 1. Develop detailed audit reports and renovation & testing run plans		x	x		UNDP	мос	GEF	72100	Contractual services - Companies			0	
3. No. of completed M&V exercises in	Act 2. Develop energy survey reports, feasibility study report, technical support reports for each selected buildings and related progress reports.			x	x	UNDP	мос	GEF	72100	Contractual services - Companies	70.680		70.680	Instalments 3rd and 4th.
pased on or influenced by, the results of the	Activity 3.2.3 :Purchased and installed monito	ring	equ	ipm	ent f	or demor								
respectively as baseline indicators at the project	Act 1. Design integrated M&V and BMS equipment systems	x	x			UNDP	MOC	GEF	71300	Local consultants	3.000		3.000	
	Act 2. Purchase and installation of monitoring equipment for demonstration projects.		x	x	х	UNDP	мос	GEF	72100	Contractual services - Companies	140.000		140,000	Estimated. It can be increased based on the actual needs of the buildings. In order to ensure the related progress, PMU will discuand agree with UNDP on the M&V purchas and installation host entity (PMU/UNDP/building owner) depending on actual situations arising during the project implementation process
3 months.	Activity Result 3.3.2: Technical and Coordina	tion	supp	oort	to pi	oject act	ivities pr	rovided			F-F-			
Technical support reports. Designs with action plans approved by PMU	Act 1. Provide technical and coordination support to project activities	x	x	x	x	UNDP	мос	GEF	71800	Project Staff	119.800		119.800	PM, NSTA, NTS, PSO, Accountant February to December for PM and Accountant to be paid here.
and UNDP; 4. Annual Progress Report.	Total for Output No. 3.2										398.336	0	398.336	
Output No.3.3: Documented and disseminated results and lessons from the	Activity Result 3.3.1: Documented results and lessons from the demonstration projects													
EE&C in new and existing buildings Indicators: I. # lessons documented and shared; Baseline: 1. 06 demo buildings implemented by USAID, DANIDA and IFC and 20 selected	Act 1. Support demonstration activities and collect, analyze and summarize all related lessons.	x	x	x	x	UNDP	мос	GEF	71200	International Consultants		36.800	36,800	To be done by IE on EE in buildings and inputs to be provided by NEs and NF. Cost covers inputs for 3.2.1 Contract amendment signed in 2019: \$55,300, Estimated disbursement in 2020: 36,800
buildings can be lessons learnt for project demo. Target: 1. A lesson-learnt report submitted to PMU in QII.	Act 2. Organize a demo result dissemination workshop (50 pax)		x	x		UNDP	мос	GEF	75700	Training, Workshops and Conference	8.000		8,000	Both in Hanoi and HCM, \$4,000 each.
MoV: 1. Lesson-learnt report;	Total for Output No. 3.3										8,000	36,800	44.800	
1. Annual Progress Report	Communication (including video clips on EE buildings)		x	x	x	UNDP	мос	GEF	74200	Audio Visual & Print Prod Costs	15,000		15.000	
	DSA and travel	x	x	x	x	UNDP	мос	GEF	71600	Travel Cost	7,000		7,000	For PMU staff and/ or individual consultan
	Advertisement Cost	x	x	x	x	UNDP	мос	GEF	72100	Contractual services - Companies	1.000		1.000	
	UNDP Direct technical services to link the project with broader climate change agenda	x	x	x	x	UNDP		GEF	71300	International Consultants	20.000		20.000	
	Other Cost	x	X	X	x	UNDP	MOC	GEF	74500	Miscalleneous	500		500	
											451.836	130.700	582.536	

EXPECTED OUTPUTS		TI	MEI	FRA	ME				PL	ANNED BUDGET				
And baseline, associated indicators and annual targets	PLANNED ACTIVITIES	Q1	Q2	Q3	Q4	RESPONSIBLE PARTY		Funding Source	Funding Budget Description		Amount 2020 (USD)	Commitment 17-19 (USD)	Total (USD)	Challenges, solutions and other issue
1	2	3	4	5	6	7		8		9	10	11	12	13
Indicators: 1. % disbursement rate;	Salary for Project Staff	x					мос	GEF	71800	Project Staff	2.799		2,799	January salary for Admin/ Accountant and PM
# management/ field review reports submitted timely;	Offfice's equipment	x	x	x	x		мос	GEF		Equipment and Furniture	3,500		3.500	Contingency. An accounting software contract: \$3000
Baseline: 1&2 1 PM, 1 NTS and 1 accountant/	Office supplies	X	x	x	X		MOC	GEF	72500	Office supplies	5.613		5.613	
admin recruited in 2016. Target: 1. 80% budget disbursed this year and all management/ field reports submitted timely;	Project Management Meeting Cost	x	x	x	x		мос	GEF	75700	Training, Workshops and Conference	800		800	PMU/UNDP/PSC Meeting costs
2. 100% management report submitted timely. MoV:	Project Final-term Review (FR)	x	x	x		UNDP		GEF	71200	International Consultants	20.000		20,000	
1&2. Project records		X	X	х		UNDP		GEF	71300	Local Consultants	5.000		5.000	
I. Annual Progress Report	UNDP cost recovery charges	x	x	x	x	UNDP		GEF	74500	UNDP cost recovery charges	15.000		15.000	
	Audit				х	UNDP		GEF	74100	Audit	2.500	2.042	4,542	
	DSA and travel	x	x	х	Х		MOC	GEF	71600	Travel Cost	500		500	
	Others	x	x	x	x		мос	GEF	74500	Miscalleneous	500			Cost for office electricity, telephone and office IT maintenance.
Total for Outcome 4									- H		56.212	2.042	58.254	
TOTAL FOR YEAR 2020											902.000	314.616	1.216.617	

Prepared by:

Hoàng Thị Kim Cúc Project Manager Date:

Approved by:

Vu Ngoc Anh National Project Director

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