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USAID VIETNAM LOW EMISSION ENERGY PROGRAM (V-LEEP)

**Quarterly Progress Report
FY17 Q1 (October – December 2016)**

December 31, 2016

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Quarterly Progress Report

FY17 Q1 (October – December 2016)

Prepared for:

USAID/Vietnam, Environment and Social Development Office

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ACRONYMS AND ABBREVIATIONS

ADB	Asian Development Bank
AFD	Agence Française de Développement
ASEAN	Association of Southeast Asia Nations
CCBV	Coca Cola Beverages Vietnam Ltd.
CPA	Clean Power Asia
DANIDA	Danish International Development Agency
DCA	Development Credit Authority
DPPA	Direct Power Purchase Agreements (Renewable Energy)
EE	Energy Efficiency
EIB	European Investment Bank
ERAV	Electricity Regulatory Authority of Vietnam
ESCO	Energy Service Company
ESMAP	Energy Sector Management Assistance Program (World Bank)
EU	European Union
EVN	Electricity Vietnam
FY	Fiscal Year
GDE	General Directorate of Energy
GIZ	Gesellschaft für Internationale Zusammenarbeit
GGPA	Green Growth Action Plan(s)
GVN	Government of Vietnam
IEE	Industrial Energy Efficiency
IFC	International Finance Corporation
IZ	Industrial Zone
JICA	Japan International Cooperation Agency
LASSUCO	Lam Son Sugar and Cane Company
KfW	German Development Bank (Bank for Reconstruction)
MOC	Ministry of Construction
MOF	Ministry of Finance
MOIT	Ministry of Industry and Trade
MONRE	Ministry of Natural Resources and Environment
MOU	Memorandum of Understanding
MPI	Ministry of Planning and Investment
MW	Mega-watt
OPIC	Overseas Private Investment Corporation
NDC	National Determined Contributions
NDF	Nordic Development Fund
NREL	National Renewable Energy Laboratory
PD	Project Document
RDMA	Regional Development Mission Asia
RE	Renewable Energy
SECO	Swiss State Secretariat for Economic Affairs
SME	Small and Medium Enterprise
TBD	To be determined
U.S.	United States
UNDP	United Nations Development Programme
UNIDO	United Nations Industrial Development Organization
USAID	United States Agency for International Development

EXECUTIVE SUMMARY

During the first quarter of FY17 (October – December 2016), the V-LEEP team initiated technical work under each of the three project components as outlined in the Year 2 Work Plan, made several field trips to promote V-LEEP activities, revised overall indicator targets, and continued to work with MPI and MOIT on the project approval. Substantial progress has been made across all components.

For Component 1, our activities have centered on the Green Growth Action Plan for Thanh Hoa province and the potential renewable energy opportunities. V-LEEP made a field trip to Thanh Hoa in October, met with the Provincial authorities, visited a number of project sites, and identified six potential renewable energy projects. Follow-up activities were conducted and a draft Project Assistance Program developed for a 30MW solar project with LASCUDO. Other Component 1 institutional activities have been deferred pending project activity approval.

For Component 2, we have concentrated on developing the framework of technical assistance for adoption of Direct Power Purchase Agreements and continued outreach activities with potential project developers, ESCOs, and renewable energy off-takers. V-LEEP continues to provide support to these developers and development partners to identify potential projects and provide technical assistance.

For Component 3, V-LEEP has continued to address activities pertaining to industry characterization, ESCO capacity assessment and energy efficiency labeling and standards in Vietnam. For the 6 identified energy intensive industries, a preliminary first version of these reports has been completed. During this quarter, meetings have been conducted with different stakeholders in Ho Chi Minh City and Hanoi to investigate opportunities for Industrial Energy Efficiency (IEE) and RE project development, implementation, and assessing the needs for potential support and capacity building.

Notable accomplishments during this quarter include: signing of a technical assistance MOU with Coca-Cola Beverages Vietnam for solar power development, meeting and agreement with Lam Son Sugar and Cane Company to support a 30MW solar plant, assessment of Thanh Hoa Green growth Action Plan, and field trips to visit with stakeholders and lay the groundwork for energy efficiency and renewable energy projects. V-LEEP also met with MOIT and agreed to support the development of Renewable Energy Direct Power Purchase Agreements, and supported the Vietnam Business Forum on promulgating the Made in Vietnam Energy Plan.

Due to the ongoing process of obtaining Project Activity approval, the V-LEEP program will accelerate activities not directly related to the institutional elements of V-LEEP, and will concentrate on private sector initiatives. This will be the focus for the next quarter.

V-LEEP staff also participated in several workshops, made field trips, and hosted/attended meetings with various stakeholders interested in collaborating on V-LEEP.

The Year 2 work plan was approved and Deloitte submitted all required project management reports and deliverables during this quarter.

TÓM TẮT BÁO CÁO

Trong quý 1 năm 2017 (tháng 10 – 12/2016), dự án V-LEEP bắt đầu một số nội dung kỹ thuật thuộc ba hợp phần theo Kế hoạch công việc năm 2, với những chuyến công tác nhằm thúc đẩy các hoạt động V-LEEP, đồng thời điều chỉnh các mục tiêu tổng thể, tiếp tục làm việc với Bộ KHĐT và Bộ Công Thương về việc phê duyệt dự án. Các hợp phần đã có được một số tiến bộ đáng kể.

Trong Hợp phần 1, các hoạt động tập trung vào Kế hoạch Hành động tăng trưởng xanh của tỉnh Thanh Hóa và các cơ hội về năng lượng tái tạo. V-LEEP có chuyến công tác đến Thanh Hóa tháng 10, họp với các cơ quan của tỉnh, thăm một số dự án, và xác định sáu dự án năng lượng tái tạo tiềm năng. Một số hoạt động tiếp theo cũng đã được triển khai và dự thảo Chương trình Hỗ trợ dự án được xây dựng cho dự án năng lượng mặt trời 30MW với LASCULO. Một số hoạt động khác được hoãn lại chờ phê duyệt hoạt động dự án.

Hợp phần 2 tập trung xây dựng khung hỗ trợ kỹ thuật cho việc áp dụng các Hợp đồng mua bán điện trực tiếp và tiếp tục tiếp cận các nhà phát triển dự án tiềm năng, ESCO và đơn vị bao tiêu năng lượng tái tạo. V-LEEP tiếp tục hỗ trợ nhà phát triển và các đối tác phát triển trong việc xác định các dự án tiềm năng và hỗ trợ kỹ thuật.

Đối với Hợp phần 3, V-LEEP thực hiện những hoạt động về đặc trưng hoá ngành, đánh giá năng lực ESCO, dán nhãn và tiêu chuẩn sử dụng năng lượng hiệu quả Việt Nam. Dự án hoàn thành xong dự thảo báo cáo đánh giá sơ bộ cho 6 ngành sử dụng nhiều năng lượng. Cũng trong quý 1, dự án họp với các bên liên quan tại thành phố Hồ Chí Minh và Hà Nội để tìm hiểu cơ hội sử dụng năng lượng hiệu quả trong ngành (IEE) và phát triển dự án NLTT, đánh giá nhu cầu hỗ trợ và nhu cầu xây dựng năng lực.

Một số kết quả đáng chú ý trong quý này bao gồm: Ký kết biên bản ghi nhớ hỗ trợ kỹ thuật với Coca-Cola Việt Nam để phát triển năng lượng mặt trời, thỏa thuận hỗ trợ nhà máy năng lượng mặt trời 30MW với Công ty Mía đường Lam Sơn, Bản đánh giá Kế hoạch hành động tăng trưởng xanh Thanh Hóa, và chuyến công tác đến các bên liên quan, xây dựng nền móng cho hoạt động tiết kiệm năng lượng và các dự án năng lượng tái tạo. V-LEEP cũng đã họp với Bộ Công Thương và thống nhất hỗ trợ xây dựng Hợp đồng mua bán điện trực tiếp cho năng lượng tái tạo, hỗ trợ Diễn đàn doanh nghiệp Việt Nam ban hành Kế hoạch Năng lượng sản xuất tại Việt Nam.

Do V-LEEP đang trong quá trình xin phê duyệt Hoạt động dự án, chương trình sẽ đẩy mạnh các hoạt động không liên quan trực tiếp đến các yếu tố thể chế của V-LEEP, tập trung vào các sáng kiến khu vực tư nhân. Đây sẽ là trọng tâm trong quý tiếp theo.

Cán bộ V-LEEP tham gia một số hội thảo, các chuyến công tác, và tổ chức/tham dự các cuộc họp với các bên liên quan về khả năng hợp tác trong chương trình.

Kế hoạch công việc năm 2 đã được phê duyệt. Deloitte đã nộp tất cả các báo cáo quản lý dự án và sản phẩm của quý này.

V-LEEP OVERVIEW

The USAID Vietnam Low Emission Energy Program (V-LEEP) is designed to assist the Government of Vietnam (GVN) in establishing an effective policy, regulatory, and incentive environment for low-emission growth in the energy sector, while simultaneously attracting public- and private-sector investment in renewable energy (RE) development and energy efficiency (EE). V-LEEP will promote the development of critical building blocks to scale up clean energy, such as accessible smart incentives for clean energy and EE investments, enabling a competitive environment for RE generation, enhancing renewable power grid integration, and ensuring locational concentration of clean energy generation facilities.

Three components form the core tasks under the approved V-LEEP Year 1 Work Plan:

Component 1: Low Emission Strategy Development for the Energy Sector

Task 1.1: Enhance GVN capacity to analyze and develop clean energy strategies, and evaluate emission mitigation options for decision making.

Component 2: Enhance Capacity and Improve Enabling Environment for Renewable Energy Development

Task 2.1: Enhance capacity of Vietnamese government institutions to improve the enabling environment for RE development.

Task 2.2: Enhance capacity of RE developers and the private sector in large-scale RE development.

Task 2.3: Increase adoption of RE in industry.

Component 3: Increase Energy Efficiency Adoption and Compliance

Task 3.1: Enhance government capacity to strengthen energy efficiency policy implementation.

Task 3.2: Enhance energy efficiency in energy-intensive industry sectors.

The V-LEEP program has initiated activities under the 2nd year work plan which is designed to:

- Build upon the groundwork accomplished in Year 1,
- Pursue those activities which can be effectively implemented without Project Activity approval,
- Maintain close relationships with the Ministry of Industry and Trade (MOIT) and other stakeholders, and
- Plan to re-engage on institutional activities post Project Activity approval

While VLEEP has made good progress in all these areas, the absence of an approved GVN Project Activity has inhibited our progress across the institutional tasks.

PROGRESS AND ACHIEVEMENTS

V-LEEP had a productive Year 2 first quarter with efforts focused on tasks to be completed outside of Project Activity approval and ongoing efforts to engage with GVN counterparts.

The following sections describe progress and achievements under each project element.

Component 1: Low Emission Strategy Development for the Energy Sector

During Year 1 V-LEEP completed a draft overview of energy programs and finalized an analysis of the legal and institutional framework for energy planning, as well as an energy modeling characterization. Each of these form the foundation for the Modeling Characterization Report which was finalized in September. The team has now established the groundwork for institutional activities under this Component. However, institutional related work has been deferred until such time as we have Project Activity approval and an identified MOIT counterpart under their upcoming reorganization plan. This quarter activities have focused on Activity 3, support to Green Growth Action Plans (GGAP), and in particular Thanh Hoa province.

A field trip was made to Thanh Hoa province in order to support the province in implementing the energy-related activities in the approved GGAP. The team visited with the Provincial Committee, and seven potential project sites, to make preliminary assessments on potential renewable energy projects. Six sites were evaluated and the Lam Son Sugar and Cane Company (LASUCO) was selected for clean energy project investment support. V-LEEP developed a scope of technical assistance for a 30MW solar project and discussions are ongoing with LASUCO to determine V-LEEP technical assistance. The other projects are also being held as potential pending further evaluation and interaction with the Companies.

Summary of Year 2 Deliverables:

Year 2 Deliverables ¹		
Deliverable	Estimated Completion Date	Status
Final Characterization Report (Task 1.1, Activity 1)	July 2017	Groundwork completed, further activity on hold until Project Activity approval is received and counterpart implementing agency is identified.
Final Optimization Report (Task 1.1, Activity 2)	September 2017	
Implementation plans for PGGAP (Task 1.1, Activity 3)	July 2017	In Progress
Strategy White Paper (Task 1.1, Activity 4)	August 2017	Groundwork completed, further activity on hold until Project Activity approval is received and counterpart implementing agency is identified.
Workshops (Task 1.1, Activity1+2+4)	September 2017	

¹ Deliverable due dates are contingent on the assumption that GVN Activity Approval will be received by April 1, 2016.

Component 2: Enhance Capacity and Improve Enabling Environment for Renewable Energy Development

Under Component 2, V-LEEP staff completed revisions to the GVN renewable energy capacity report, alternative procurement policies report, and the industrial renewable energy adoption report. The team also prepared outlines for a renewable energy developer characterization and an Energy Service Company (ESCO)/facility manager report. As with Component 1, the groundwork for Year 2 institutional activities has been largely completed and further institutional related work will be dependent on Project Activity approval and engagement with MOIT counterparts.

Outside of the institutional related work, V-LEEP has accomplished:

- Renewable energy direct power purchase agreements (DPPA) – A kick-off meeting was held with the Electricity Regulatory Authority Vietnam (ERAV), a scope-of-work developed for review, and recruitment of legal/institutional advisors completed. Work will begin 1Q 2017.
- Coca Cola Beverages Vietnam (CCBV) – An MOU was signed with USAID and a scope-of-work provided to CCBV for technical assistance to their solar energy project and facility energy manager capacity building programs.
- Project Developers/Financers – Support and meetings were provided to potential partners such as: Dragon Capital, Nexif, First Solar, Sky Solar, Prime Road Group, Overseas Private Investment Corporation (OPIC), MW Group, Xcel Energy, Energy Sector Management Assistance Program (ESMAP), Trade, and others.
- Outreach – V-LEEP participated with the US Energy Industry Group to promote the Made-in-Vietnam Energy Plan and assist US companies to promote energy services and products in Vietnam.
- Tariff and Pricing Forecasts – V-LEEP completed a compendium of electricity price forecasts and tariff regimes for use by potential project developers and financiers.

V-LEEP made a concentrated effort to reach out to potential private sector partners and development partners to promote renewable energy.

Summary of Year 2 Deliverables:

Year 2 Deliverables ²		
Deliverable	Estimated Completion Date	Status
Renewable Energy Portfolio Standard (Task 2.1, Activity 1)	September 2017	Deferred pending Project Activity Approval
RESI Roadmap (Task 2.1, Activity 2)	July 2017	
Direct Power Purchase Agreements Assessment Report	April 1, 2017	Work initiated
Alternative Procurement Mechanisms Assessment (Task 2.1, Activity 3)	July 2017	

² Deliverable due dates are contingent on the assumption that GVN Activity Approval will be received by April 1, 2017.

Year 2 Deliverables ²		
Deliverable	Estimated Completion Date	Status
Net-Metering Circular (Task 2.1, Activity 4)	September 2017	Deferred pending Project Activity Approval
Project Development Training Workshops (Task 2.2, Activity1)	August 2017	
On-Grid RE Project Prospectus (Task 2.2, Activity 2)	June 2017	Work planning initiated
Updated DCA Market Study(Task 2.2, Activity 3)	July 2017	
Renewable Energy Promotion Center Concept Note (Task 2.2, Activity 4)	August 2017	Deferred pending Project Activity Approval
Industry RE Adoption Analysis (Task 2.3, Activity 1)	May 2017	
Industry RE Adoption Capacity Building (Task 2.3, Activity 2)	September 2017	Work Initiated
RE Adoption Project Pre-Feasibility Analysis (Task 2.3 Activity 3)	September 2017	
Supporting Workshops, Trainings, Consultations (all)	April – Sep 2017	

Component 3: Increase Energy Efficiency Adoption and Compliance

Under Component 3, the V-LEEP team continued work on activities pertaining to industry characterization, ESCO capacity assessment and energy efficiency labeling and standards in Vietnam. For the 6 identified energy intensives industries, a preliminary first version of these reports has been completed. For the adoption and compliance task, a preliminary version of tool has been developed and has been shared with MOIT counterparts for feedback. During this quarter, meetings have been conducted with different stakeholders in Ho Chi Minh City and Hanoi to investigate opportunities for Industrial Energy Efficiency (IEE) and RE project development, implementation, and assessing the needs for potential support and capacity building.

Summary of Year 2 deliverables:

Year 2 Deliverables ³		
Deliverable	Estimated Completion Date	Status
Stakeholder Consultations and Working Group Establishment Report (Task 3.1, Activity 1)	June 2017	Deferred pending Project Activity Approval
Industry Characterization Final report (Task 3.2, Activity 1)	Jul 2017	
Workshops proceedings (Task 3.1, Activity 1)	September 2017	Work Initiated
Report Recommendation for AEE chapter and Certification Program (Task 3.2, Activity 2)	Jul 2017	

Work on Task 3.1 will be deferred pending Project Activity approval while Task 3.2 will be accelerated.

³ Deliverable due dates are contingent on the assumption that GVN Activity Approval will be received by April 1, 2017.

Cross-cutting Activities

V-LEEP's cross cutting activities have concentrated on the Gender, Monitoring & Evaluation, and communications tasks. Various ground work activities, and updating of the monitoring & evaluation indicator targets, have been completed this quarter. Progress has been made on all deliverables and target indicators.

Summary of Year 2 deliverables:

Year 2 Deliverables ⁴		
Deliverable	Completion Date	Status
Gender Equality and Women's Empowerment		
Gender parity analysis included in all technical reports	Ongoing	
Statement of encouragement for women's participation included in invitations for all training events, seminars, and workshops	Ongoing	Work initiated
Workshop at university counterpart institution for young women in energy management, entrepreneurship and engineering	June 2017	
Gender lens investing in clean energy seminar for investors, project developers, and regional impact investing organizations	August 2017	Planning in progress
Status of Gender and Energy in Vietnam Report	September 2017	
Monitoring and Evaluation		
M&E dashboard and database	April 2017	
Baseline tools preparation for indicators 2, 9, 11, and 14	April 2017	
Reporting tools for indicators 1, 4, 5, 6, 7, 10, 12, 13	April 2017	Work in-progress
M&E AIDTracker+, TraiNet, quarterly and annual reporting	Ongoing	
Communications		
GVN Activity Approval Announcement Ceremony	June 2017	TBD
Year 2 Communications Plan	May 2017	Planning in progress

Project Management

Subcontracting and Key Personnel

All subcontracting was in place and key personnel were on-board during this Quarter. Plans for additional subcontracting under all components were in-progress:

- Legal and Institutional advisory services for DPPA
- Energy management and measurement verification capacity building/training
- Renewable energy standard advisory services

⁴ Deliverable due dates are contingent on the assumption that GVN Activity Approval will be received by April 1, 2017.

During this quarter the V-LEEP Component 2 Lead also resigned to pursue a graduate educational program abroad, so replacing this key personnel position will be a priority for next quarter. Plans to recruit a replacement were initiated.

Reports & Deliverables

V-LEEP submitted the draft Year 2 Work Plan and received approval during this quarter. All other contract deliverable reports were submitted.

Project Activity Approval

V-LEEP actively engaged with MOIT and the Ministry of Planning and Investment (MPI) during this quarter to pursue Project Activity Approval:

- The project proposal was completed, approved by MOIT, and submitted to MPI
- The project proposal was accepted by MPI, circulated to concerned Ministries for comment, and a final Proposal with comments returned to MOIT,
- A draft undertakings document was completed for MOIT and discussions continue to prepare the final document.

After consultations with USAID it was decided that V-LEEP would actively engage on those work plan activities that did not require direct coordination with MOIT (i.e. non-institutional work) and a plan to accelerate those activities was presented to USAID and endorsed.

Other Project Management

V-LEEP held numerous cross-cutting meetings and attended numerous relevant events, including: Vietnam Business Forum (Made in Vietnam Energy Plan), Vietnam Energy Association, ASEAN Renewable Energy Workshop, MPI GGAP, Clean Power Asia (CPA), Regional Development Mission Asia (RDMA), Ministry of Natural Resources and Environment (MONRE) Sustainable Energy Workshop, MOIT Energy Standards Workshop, etc.

PROGRESS BY PERFORMANCE INDICATORS

The approved Monitoring & Evaluation Plan includes a set of 15 key performance indicators to be tracked throughout the duration of the project. Given the continuing Project Activity approval process, and the decision to pursue non-MOIT related tasks, the indicator targets were updated for Years 2 through 5 and submitted to USAID.

CONSIDERATIONS AND CHALLENGES

The primary challenge for the V-LEEP project to date has been the need to obtain GVN Activity Approval to formalize the project and authorize engagement of GVN counterparts. While we have made good progress in Year 1, and continuing progress in this first quarter of Year 2, the process is expected to continue for some time. Additionally, MOIT has announced an upcoming reorganization which will dissolve our current counterpart, GDE, and it is unknown at this point who our counterpart will be. Thus, USAID and Deloitte have decided to accelerate V-LEEP activities that do not require direct engagement with MOIT, and defer those activities (primarily institutional) which require direct engagement with MOIT.

FY17 Q2 PROJECT FORECAST

In accordance with the approved Year 2 Work Plan, the following activities are planned under each component of the V-LEEP project for FY17 Q2 (January - March 2017).

Component 1: Low Emission Strategy Development for the Energy Sector

Activity will focus on two principal tasks:

- Support to LASCUCO, which will be in line with the Project Activity Document currently under negotiation, and is expected to comprise: resource assessment and site selection, preliminary pre-feasibility study, and Provincial Committee approval documents.
- Review and evaluation of other GGAP to identify opportunities for V-LEEP technical assistance
- Field trips (to be determined) in support of these tasks

Work on the institutional tasks is not planned as Project Activity approval is not anticipated during this quarter

Component 2: Enhance Capacity and Improve Enabling Environment for Renewable Energy Development

V-LEEP activity will focus on the following tasks:

- Renewable Energy Direct Power Purchase Agreements – Work will begin on the institutional and legal assessment of implementation mechanisms and a presentation will be scheduled for ERAV
- DCA Market Study – A scope-of-work to update this study will be developed and work is expected to commence during this quarter.
- RE Promotion – V-LEEP will continue to engage with project developers, financiers, and RE off takers to promote RE development.

Institutional work will be deferred until Project Activity approval is received and work on other deliverables will continue.

Component 3: Increase Energy Efficiency Adoption and Compliance

V-LEEP will continue reaching out the different stakeholders, notably industries association and industrial parks, during this next quarter. The objective is to identify and develop an initial projects pipeline and to move forward in implementing our capacity building plan and support by providing specific workshops related to energy efficiency best practices for the key industrial sectors. V-LEEP will provide necessary support for project developers and clients to offer and implement Energy Performance Contracting (EPC).

Task 3.1 will be deferred pending Project Activity approval.

Cross-cutting Activities

Several cross-cutting activities are planned for FY17 Q2 to complement and support the project's technical activities. V-LEEP will finalize the tools for monitoring and evaluation activities planned for the remainder of the year and beyond, and elaborate on the project's approved Communications Strategy with the development of a detailed Communications Plan. The Operations Manager will convene with Component leads and other team members to revisit Gender activities included in the Year 2 Work Plan and begin planning for the two events planned for June and August 2017.

Project Management

V-LEEP will continue to provide project management support as required under the task order contract and Year 2 Work Plan and deliver all required reports. In addition, V-LEEP will continue to participate in donor coordination meetings and to support ad hoc requests from USAID and partners. We will also proactively pursue Project Activity approval and keep USAID informed of our progress. Finally, there are a number of activities and coordination meetings scheduled with USAID partners Clean Power Asia, CEADIR, and the NREL accelerator program during the first quarter 2017.

COOPERATION WITH OTHER USG AND DONOR PROGRAMS

V-LEEP is one of many renewable energy donor programs in Vietnam and proactive coordination with other programs is essential for optimizing resources. The following is a summary of domestic and regional donor programs relevant to V-LEEP.

USAID Vietnam Clean Energy Program

The USAID Vietnam Clean Energy Project supports the Ministry of Construction (MOC) in its implementation of the National Green Growth Strategy and promotion of energy efficiency in all civic buildings.

Vietnam Central Province Green Growth Growth Action Plan

The province of Thanh Hoa, and USAID, will enhance the exchange of information, knowledge and technology in the field of climate change, while jointly conducting surveys and collecting data on agriculture, forestry and aquaculture; energy; industry and waste treatment. V-LEEP will support Thanh Hoa in those areas of the GGAP which are covered by our work plan.

USAID Clean Power Asia

Many of the activities under this new regional initiative compliment V-LEEP in the areas of renewable energy development. V-LEEP participated in coordination meetings with USAID's Regional Development Mission for Asia (RDMA) and the institutional contractor to ensure activity planning will be well coordinated.

Nationally Determined Contributions (NDC) Investment Accelerator

This National Renewable Energy Laboratory (NREL) initiative seeks to employ an innovative Public Private Partnership model to rapidly scale financial flows for meeting country-established renewable energy National Determined Contribution (NDC) goals. The initiative will do this by addressing and resolving key barriers in the renewable energy policy and finance sectors through country-specific activities focused on supporting effective policy and regulatory structures, a robust pipeline of "investment ready" clean energy projects, and renewable energy purchasers and financiers that can leverage and deploy public and private finance.

Climate Economic Analysis for Development, Investment and Resilience (CEADIR)

CEADIR will accelerate private sector investment and finance for NDCs by connecting leading private sector entities, "early-mover" country governments (such as Vietnam, Philippines, Indonesia, India, and Thailand), and donors around specific investment commitments, models of catalytic financing, investment-ready projects, and examples of enabling environment changes that are mobilizing private finance toward NDC priorities. Supporting this process in early-mover countries will help build the regional market for climate-friendly private investment, and encourage replication more broadly in the region. CEADIR is organized into three tasks: Task 1. Develop Climate Investment Opportunities and Catalytic Financing Models in the Asia Region, Task 2. Convene Private Sector Leaders, Early-Mover Countries, and Development Partners to

Mobilize Investment and Financing and to Align Assistance, and Task 3. Promote the Replication of Catalytic Models and the Scaling up of Private Sector Involvement.

Other International Donor Programs

V-LEEP actively coordinates with other donor programs in Vietnam that are concerned with promoting renewable energy development and industrial energy efficiency. The table below contains a representative summary.

Program	Local / Global	Budget (\$M USD)	Timeline	Agency	Beneficiary
Energy Efficiency					
Vietnam Clean Production and Energy Efficiency Project	Local		2011 – 2016	MOIT	Key industries, ESCOs
Vietnam Resource Energy Efficiency	Local	2.6	2013 – 2017	IFC	Processing zones/ industrial zones
Low Carbon Transition in the Energy Efficiency Sector	Local	11.5	2013 – 2017	DANIDA	MOIT/SMEs
Vietnam Inclusive Innovation Project	Local	58	2013 – 2018	World Bank	Multiple
Promotion of EE Industrial Boiler Adoption and Operating Practices in Vietnam	Local	12	2015 – 2019	UNIDO	MOIT
Vietnam Energy Efficiency for Industrial Enterprises	Local	200	2016 – 2021	World Bank	Industrial enterprises
Renewable Energy					
Clean Energy Financing Partnership Facility	Global	N/A	2007 – TBD	ADB	Multiple
Support for the Development of Renewable Energy in Vietnam	Local	3.4	2012 – 2015	GIZ	Vietnamese private sector actors
Renewable Energy Development Project	Local	202	2013 – 2021	World Bank/ SECO	RE developers
Support to the Up-Scaling of Wind Energy in Vietnam	Local	7.8	2014 – 2018	GIZ	MOIT
Renewable Energy Resource Mapping	Local	1.5	2015 – 2017	World Bank	MOIT
Pump Storage Hydropower Project (Pipeline)	Local	800	2015 – 2017	World Bank	MOIT/EVN
Renewable Energy and Energy Efficiency (4E)	Local	3.4	2015 – 2017	GIZ	MOIT
PDP South-East Asia	Regional	0.45	2015 – 2017	GIZ	Vietnamese private sector actors
Renewable Energy Development Facility	Global	17.4	2017 – TBD	KfW	RE developers
Cross-cutting					
Support Program to Respond to Climate Change	Local	895.15	2009 – 2020	AFD, JICA	Multiple
Nordic Development Fund	Global	N/A	2009 – TBD	NDF	Multiple
Global Environment Facility	Global	3	2010 – 2014	Multiple	Multiple
Vietnam Climate Change Global Loan	Local	182	2011 – 2013	EIB	MOF
Global Climate Partnership Fund	Global	N/A	2011 – TBD	Multiple	Vietinbank
Green Growth Strategy Facility	Local	7.2	2013 – 2019	Belgium	MPI
Green Climate Fund	Global	1,846	2013 – TBD	Multiple	Multiple

Program	Local / Global	Budget (\$M USD)	Timeline	Agency	Beneficiary
Energy and Environment Partnership Program in the Mekong (Phase 2)	Regional	10.19	2014 – 2018	Finland MFA	Multiple
EU Multiannual Indicative Program	Local	420	2014 – 2020	EU	GDE
Implementation of Eco-Industrial Park Initiative for Sustainable IZs in Vietnam	Local	53	2014 – 2017	UNIDO	MPI/IZs
Partnership for Market Readiness	Global	3.6	2016 – 2020	World Bank	MONRE, MPI, MOF, MOIT, MOC