

2019

Project Implementation Review (PIR)

**Vietnam LED**

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# Basic Data

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| **Project Information** | |
| UNDP PIMS ID | 5193 |
| GEF ID | 5555 |
| Title | Local Development and Promotion of LED Technologies for Advanced General Lighting |
| Country(ies) | Viet Nam, Viet Nam |
| UNDP-GEF Technical Team | Energy, Infrastructure, Transport and Technology |
| Project Implementing Partner | Government |
| Joint Agencies | *(not set or not applicable)* |
| Project Type | Medium Size |

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| **Project Description** |
| The objective of the Project is to mitigate GHG emissions through transformation of the lighting market towards greater usage of locally produced LED lighting products in Viet Nam. This objective will be achieved by removing barriers to increased production and utilization of locally produced LED lighting products in Viet Nam through two components: i) the transfer of skills, knowledge and technology for the manufacturing of LED lamps in Viet Nam; and ii) the demonstration of cost-effective local commercial production of LED lighting devices. The Project will be implemented over a 4-year period and is expected to achieve GHG emission reductions through the displacement of electricity generation from fossil-fueled power plants. Direct GHG reduction estimates are 0.623 ktonnes CO2. Direct post-project GHG reductions are estimated to be 69.38 ktonnes CO2. The estimated range of potential indirect emission reductions is e6 to 5,154 ktonnes CO2eq that is cumulative for a 10-year period after the end of the Project. |

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| **Project Contacts** | |
| UNDP-GEF Regional Technical Adviser | Ms. Milou Beerepoot (milou.beerepoot@undp.org) |
| Programme Associate | Ms. Sornsawan (Kam) Phongphao (sornsawan.phongphao@undp.org) |
| Project Manager | Mr. Cuong Nguyen (kiencuong63@gmail.com) |
| CO Focal Point | Ms. Vu Thi Thu Hang (vu.thi.thu.hang@undp.org) |
| GEF Operational Focal Point | *(not set or not applicable)* |
| Project Implementing Partner | Mr. Thao Nguyen (thaonv@vast.gov.vn) |
| Other Partners | *(not set or not applicable)* |

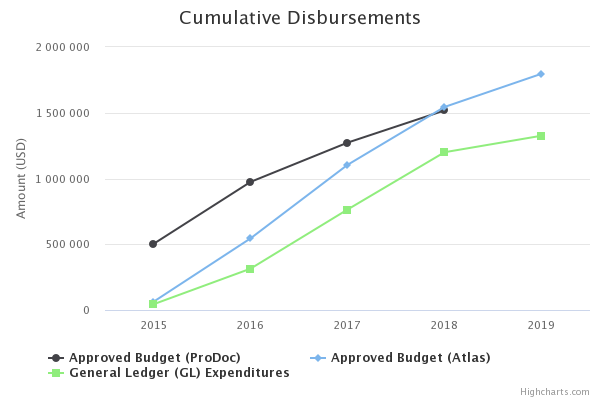
# Overall Ratings

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| Overall DO Rating | Satisfactory |
| Overall IP Rating | Satisfactory |
| Overall Risk Rating | Moderate |

# Development Progress

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| **Description** | | | | | | |
| **Objective**  **Mitigation of GHG emissions through transformation of the lighting market towards greater usage of locally-produced LED lighting products in Viet Nam** | | | | | | |
| **Description of Indicator** | **Baseline Level** | **Midterm target level** | **End of project target level** | **Level at 30 June 2018** | **Cumulative progress since project start** |
| Cumulative direct and indirect CO2 emission reductions resulting by EOP, tonnes CO2 | negligible | *(not set or not applicable)* | 623 | 713.3  (Target: 311) | 1,263 (direct)  204,951 (indirect top-down)  [Results calculated by multiplying the emission factor by the direct and indirect energy saving achieved respectively] |
| Cumulative direct and indirect energy saving (MWh) by EOP | negligible | *(not set or not applicable)* | 1,000 (direct energy savings)  3,000 (indirect energy savings) | 874.8 (direct)  (Target: 450 (direct, 0 in direct) | 1,460 (direct)    2,370,160 (indirect top-down)    [Direct energy saving achieved is based on installation of 4,830 LED lights (1,964 high power LED lights of 35-150W and 2,866 low power LED lights of less than 20W) ]    [Indirect impact: The LED market size grew very fast, much faster than predicted (up to 50% from 2017 to 2019), it is assumed that the LED project has a 40% causality factor for indirect impact of the project.] |
| % urban households and commercial establishments with reduced electricity bills from the use of LED lamps by EOP | negligible | *(not set or not applicable)* | 5 | N/A | *(not set or not applicable)* |
| **The progress of the objective can be described as:** | | **Achieved** | | | | |
| **Outcome 1**  **Development of a local LED industry that provides locally produced quality LED lamps that are increasingly in demand by local consumers** | | | | | | |
| **Description of Indicator** | **Baseline Level** | **Midterm target level** | **End of project target level** | **Level at 30 June 2018** | **Cumulative progress since project start** |
| Number of LED lamp manufacturing plants that have advanced manufacturing to produce LED lamps that meet new VN standards for LED lamps by EOP | 0 | *(not set or not applicable)* | 3 | 2 (target: 2) | 2  (Ralaco, Dien Quang) |
| Number of retailers that sell locally labeled LED lighting products by EOP | 0 | *(not set or not applicable)* | 200 | 0  Sales of LED lamps by the 2 local producers has been increasing, accounting for more than 50% of the company’s revenue. That proves the increase of the share of LED lamps in the market. In addition, the labeling of LED lighting starts voluntarily from early 2018 and survey will be done in Year 3 to define the achievement of this target.    (target 0) | 15,000    The number of retailers that sell LED labeled products produced by 2 companies which received technical support from the project. The figures were provided by the two companies.  The high number of retailers is mainly due to the fast development of the LED market that leads to increased retailers and stores selling LED lights as well demand for LED lights |
| Number of LED lighting products that are standardized by Year 3 and EOP | 0 | *(not set or not applicable)* | 6 (4 indoor lamps and 2 outdoor lamps) | 6 | 16    16 LED light types include 9 for indoor and 7 for outdoor, covering 210 LED light models |
| Number of new LED lighting products that are labeled by Year 3 | 0 | *(not set or not applicable)* | 4 | 0  Labeling programme for LED was adopted in 2017 with voluntary labeling period from Jan 2018 to Dec 2019. In year 3 and 4, the project will support piloting the labeling programme for LED lighting products.    (target 4) | 16    16 LED lamp types covering 72 different models based on the MOIT approval of the labeled LED light products.    [Estimated EOP target was low since at that time the labelling and certification was not developed so the project proponent made a modest prediction.] |
| **The progress of the objective can be described as:** | | **Achieved** | | | | |
| **Outcome 2**  **Increased use and deployment of locally-produced high-quality LED lighting technologies.** | | | | | | |
| **Description of Indicator** | **Baseline Level** | **Midterm target level** | **End of project target level** | **Level at 30 June 2018** | **Cumulative progress since project start** |
| % rural and urban households and commercial establishments that have purchased locally produced LED lamps by EOP | less than 1 | *(not set or not applicable)* | 7 | N/A  (target: 5)  Survey is ongoing to define this target | 37%  The value is calculated based on:  i) total number of rural and urban households (national statistics) and number of commercial establishments (by MOIT)  ii) Averaged number of LED lamps and averaged number of lamps used based on survey of 100 urban households, 20 rural households and 20 commercial establishment on type and number lamps that are using in those facilities  iii) Average market share of locally LED lamp is 49% |
| Annual number of sold LED lamps that are locally produced and certified LED lights in Viet Nam by EOP for the local lighting market | 1.3 million | *(not set or not applicable)* | 15 million | 16  (target: 6 million) | 40 million  The project directly contributed to sales of 40 million LED lamps out of 119 million LED lamps in the market  Data was provided by 2 companies (Ralaco and Dien Quang) on the sales of LED lamps of which the design and quality improvement of these lamps were technically supported by the project. |
| % of market share of locally produced LED lamps in the Vietnamese lighting market by EOP | less than 1 | *(not set or not applicable)* | 7 | 14  (Target: 3) | 49% |
| **The progress of the objective can be described as:** | | **Achieved** | | | | |

# Implementation Progress



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| Cumulative GL delivery against total approved amount (in prodoc): | 87.34% |
| Cumulative GL delivery against expected delivery as of this year: | 87.34% |
| Cumulative disbursement as of 30 June (note: amount to be updated in late August): | 1,325,260 |

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| **Key Financing Amounts** | |
| PPG Amount | 89,906 |
| GEF Grant Amount | 1,517,400 |
| Co-financing | 6,150,000 |

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| **Key Project Dates** | |
| PIF Approval Date | Oct 22, 2013 |
| CEO Endorsement Date | Feb 4, 2015 |
| Project Document Signature Date (project start date): | Jun 11, 2015 |
| Date of Inception Workshop | Nov 18, 2015 |
| Expected Date of Mid-term Review | *(not set or not applicable)* |
| Actual Date of Mid-term Review | *(not set or not applicable)* |
| Expected Date of Terminal Evaluation | Mar 11, 2019 |
| Original Planned Closing Date | Jun 11, 2019 |
| Revised Planned Closing Date | *(not set or not applicable)* |

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| **Dates of Project Steering Committee/Board Meetings during reporting period (30 June 2018 to 1 July 2019)** |

# Critical Risk Management

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| Current Types of Critical Risks | Critical risk management measures undertaken this reporting period |
| Other | Market risk: (i) LED lighting products market in Vietnam has been growing vey fast in the last two years but is still distorted due to the presence of substandard products in the market and uncontrolled penetration of foreign and domestic LED lighting products into the market where there may be issues with IPR infringement.  Risk management measure: With support by the project during 2018-2019, voluntary energy labeling scheme has been implemented to prepare for the mandatory labeling starting from January 2020. With the mandatory labeling, the quality of LED lights penetrating to the market will be controlled thus preventing the low-quality LED lights from access to the market. |

# Adjustments

**Comments on delays in key project milestones**

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| **Project Manager: please provide comments on delays this reporting period in achieving any of the following key project milestones: inception workshop, mid-term review, terminal evaluation and/or project closure. If there are no delays please indicate not applicable.** |
| N/A |

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| **Country Office: please provide comments on delays this reporting period in achieving any of the following key project milestones: inception workshop, mid-term review, terminal evaluation and/or project closure. If there are no delays please indicate not applicable.** |
| The project’s planned closure date is June 2019. However, the actual closing date will be December 2019 to give the project time to wrap up all activities and financially close the project by the end of this year 2019. |

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| **UNDP-GEF Technical Adviser: please provide comments on delays this reporting period in achieving any of the following key project milestones: inception workshop, mid-term review, terminal evaluation and/or project closure. If there are no delays please indicate not applicable.** |
| Since this is a Medium Sized Project, there is no mandatory MTR. As the project has consistently shown satisfactory results over the years, it was decided not to conduct an MTR in order to save time and resources. The project is about the be finalized, with mainly communication activities, financial closure and Terminal Evaluation remaining to be completed over the next few months. |

# Ratings and Overall Assessments

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| **Role** | **2019 Development Objective Progress Rating** | **2019 Implementation Progress Rating** |
| **Project Manager/Coordinator** | Satisfactory | *- IP Rating provided by UNDP-GEF Technical Adviser and UNDP Country Office only -* |
| Overall Assessment | The project achieved or even exceeded all of its end-of-project targets by end of July 2019. The project has thereby consistently followed the guidance of the Project Document and the Inception Report and the annual work-plans as approved by VAST and UNDP.  Following are the main results as per components during the reporting period that contribute to the achievement of the EOP targets:  For Outcome 1 of supporting to local LED industry that provides locally produced quality LED lamps:  Technical assistance provided to two lamp producers (Ralaco and Dien Quang) to improve the design and production of various LED products, to improve their quality and to reduce costs was completed in 2018. In year 3 and 4, the project provided technical support to other companies such as Duhal. Dai Quang Phat, Trang An V.E.M, GEN, Vi-Light, Phu Hai, University of Technology in Ho Chi Minh city and some others with technical training & related training materials, information and technical guidelines on applicable national & international standards of LED lamps, testing and certification & labeling program for their preparation for LED light products to be standardized and labeled.  During 2017-2018, 03 national Standards (LED-TCVN) recommended by the project were approved by MOST. During 2018-2019, three additional national standards were drafted with technical support by the project: 01 LED-TCVN Standard on National Standard Energy Performance for LED Street Light, and 02 draft Vietnamese lighting technical standards using LED technology in traffic works (streets, urban tunnels). These drafts were submitted to MOST and MOC respectively for review and approval.  Based on the EE Labeling & Certification roadmap (Decision 04/2017/QĐ-TTg on March 09, 2017) which came effective from January 01, 2018 with two phases; (i) phase I (January 01, 2018 to December 31, 2019): Voluntary for MEPS; and (ii) Phase II (from January 01, 2020): Mandatory labeling for MEPS, the project provided technical support to the dissemination and implementation of the National EE Labeling and Certification Programme. As the result, 16 types of LED lamps that consist of 72 LED light models were registered for labeling and more than 210 LED light models met the national standards.  In June 2019, the project continued to provide one training workshop on "Solutions for Smart Lighting and Financial Investment for Vietnam Urban Lighting" in June 2019 in Ho Chi Minh City with 103 participants from lamp manufacturing and testing facilities as well as lighting companies. Apart from this, 05 training workshops in 2017-2018 on basic and Advanced LED Lighting Technologies; the Design, Installation, Operation and Maintenance of Lighting Systems using LED Technologies, and LED lighting products testing methods, procedures and protocols in 2017-2018. Totally, about 335 people (9% are female) from lamp producers, testing facilities and lighting companies, testing labs, lighting service companies, etc. are benefited from the project training activities that contribute the improvement in local design, production and installation of LED lamps.  An online training (e-learning) facility on advanced LED technologies and applications in lighting (co-founded with HCMC University of Technology) is being developed and is about to be completed.  For Outcome 2 on the deployment of locally-produced high-quality LED lighting technologies, the project completed 10 demonstrations of the application including replacement and installation of LED lamps produced by two local companies (Ralaco and Dien Quang). With support by the project and the two local lighting companies, the installation/replacement of LED lights have been undertaken with a total of 4,830 units including 1,964 high power LED lights of 35-150W and 2,866 low power LED lights of less than 20W (compare to the plan of 4,475 LED Lights (including 500 high power LED Light of 35W-150W for street and 3,975 low power LED light of less than 20W). These 10 demonstration projects which generate the energy saving and CO2 emission reduction as mentioned above are:    05 facilities for indoor lighting, that use LED bulbs, LED Tubes, LED panels, LED high-bays produced by Dien Quang company and LED High-bays produced by Ralaco: i) Technology incubation building of VAST building in Hanoi (967 LED lights), ii) Tran Thanh Printing Company Ltd for 02 manufacturing workshops in Hanoi and Bac Ninh (251 LED lights); iii) Saigon Cigarette Factory in HCMC (1,122 LED lights); iv) Le Ngoc Han Primary School in HCMC (595 LED lights); v) a project to replace with LED tubes for 8 classrooms in 4 secondary schools in Hanoi (total 132 LED lights).  05 outdoor lighting projects are: i) Eco-park in Hung Yen Province (335 LED street lights for 58.5 km long), ii) Highway 22A linking Ho Chi Minh City and Moc Bai border gate in Tay Ninh province (1,276 LED street lights); iii) Alleys in population groups 22a and 28, Cam Gia ward, Thai Nguyen City (60 LED lights for 2.9 km); iv) Streets in Trinh Ba, Thai Nguyen city (40 LED street lights for 1.5 km) and v) Central Campus of HCMC University of Technology (a smart outdoor lightingof 50 LED lights with sensors and control cabinet).  The implementation of 10 demonstration projects on the application of locally produced indoor and outdoor lighting resulted in direct energy saving of 1,486 MWh and CO2 emission reduction of 1,285 tonnes of CO2, which are higher than the EOP targets. | |
| **Role** | **2019 Development Objective Progress Rating** | **2019 Implementation Progress Rating** |
| **UNDP Country Office Programme Officer** | Satisfactory | Satisfactory |
| Overall Assessment | In the final year of project implementation, the project continues to demonstrate its development progress exceeding the committed targets for almost all of indicators including the targets of energy saving and direct CO2 emission reduction. This is thanks to the results from increased deployment of locally produced LED lamps as well as the fast development of the LED market in Viet Nam.  For the component 1 on supporting the locally production of LED lamps, the project continues providing technical support to Ministry of Industry and Trade (MOIT) to introduce and implement the national EE labeling and certification programme. At the same time the project also supports and guides the LED lamp producers to prepare for submission documents for their products to be standardized and labeled. As the results, both the number of LED Lighting standardized products and number of new LED lighting product that are labeled well exceed the targets set for Year 4.  For component 2, 10 demonstration projects of application of locally-produced LED for both indoor and outdoor were completed resulting in the achievement of direct energy saving and CO2 emission reduction. The total number of both indoor and outdoor LED lamps 4,830 (roughly 400 unit higher than the target), of which the number of high power LED lights are also higher than the target, resulting in achievement higher energy saving and CO2 emission reduction. The pilot deployment of LED lamps in those demonstration also proves the quality of certified and standardized LED lamp produced by local companies.  In terms of implementation progress, the project is on track to achieve key milestones as planned. The cumulative delivery rate of the project by end June 2019 is 93% against the total project budget. Financial delivery of in the first half of 2019 is 60%. The project is on track to deliver the remaining 7% of total budget toward the end of 2019. Pending activities are completion of survey 3 on-going technical activities, project final evaluation, project closure. Most of project technical activities are completed. The remaining activities are project terminal evaluation and preparation of project closing including publication of project results and will be completed by end of 2019. | |
| **Role** | **2019 Development Objective Progress Rating** | **2019 Implementation Progress Rating** |
| **GEF Operational Focal point** | *(not set or not applicable)* | *- IP Rating provided by UNDP-GEF Technical Adviser and UNDP Country Office only -* |
| Overall Assessment | *(not set or not applicable)* | |
| **Role** | **2019 Development Objective Progress Rating** | **2019 Implementation Progress Rating** |
| **Project Implementing Partner** | *(not set or not applicable)* | *- IP Rating provided by UNDP-GEF Technical Adviser and UNDP Country Office only -* |
| Overall Assessment | *(not set or not applicable)* | |
| **Role** | **2019 Development Objective Progress Rating** | **2019 Implementation Progress Rating** |
| **Other Partners** | *(not set or not applicable)* | *- IP Rating provided by UNDP-GEF Technical Adviser and UNDP Country Office only -* |
| Overall Assessment | *(not set or not applicable)* | |
| **Role** | **2019 Development Objective Progress Rating** | **2019 Implementation Progress Rating** |
| **UNDP-GEF Technical Adviser** | Satisfactory | Satisfactory |
| Overall Assessment | The project is in its final year of implementation and has shown continued consistent implementation progress throughout the reporting year thereby meeting all End of Project targets. Several results of the project seem to be able to guarantee sustainable results after the project closes, which will have to be confirmed in the upcoming Terminal Evaluation of the project. Given these results, the Development Objective progress is rated as Satisfactory.    The project showed sufficient delivery rates with an overall delivery rate of 87.3% after 4 years of implementation and 52.2% delivery rate of the annual work plan after 6 months of implementation. The project will have to wrap up its activities very soon and implement the remaining project activities in the next few months focusing on financial closure and Terminal Evaluation. The Implementation Progress is rated as Satisfactory.    DEVELOPMENT OBJECTIVE PROGRESS    The project is in the final stage of implementation and is rounding up its activities before the financial closure and terminal evaluation will be finalized by the end of the year. Over the past reporting year, the project managed to achieve all the end of project targets while exceeding several of them. Being a medium sized project, it consists of only 2 components but within this small-scale project, it managed to maximize the results and served as a catalyst in facilitating the lighting market transformation towards implementation of higher energy efficiency and lower GHG emissions lighting products.    The first component concentrated on knowledge building among lighting manufacturers and developing supportive policy and regulatory measures to improve the quality and to promote adoption of LED lamp technologies. While the project previously already contributed to development of 3 standards, over the reporting year standards on LED street lighting and LED technology in traffic works (streets, urban tunnels) were added. Furthermore, standardization and labeling of LED lighting products now covers 16 LED light types (including 9 for indoor and 7 for outdoor) covering 210 LED light models. While the project has been working intensively with two producers throughout the project implementation (Ralaco and Dien Quang), over the past year training and workshops focused on other companies such as Duhal, Dai Quang Phat, Trang An V.E.M, GEN, Vi-Light, Phu Hai and the University of Technology in Ho Chi Minh city. It is interesting to see that the project also added the development of an online training (e-learning) facility on advanced LED technologies and applications in lighting (co-founded with HCMC University of Technology) as this was deemed highly relevant even though not initially included in the project document.    The second component focused on demonstration of cost-effective local production of LED lighting devices. Here the project clearly exceeded its targets as it could lift on the overall development of LED lighting products which has shown to have quickly matured over the past few years and has become an affordable technology. The project realized 10 demonstration projects, 5 for indoor lighting and 5 for outdoor lighting, thereby further contributing to direct energy savings and emission reductions.    While the overall circumstances for promotion of LED lighting were very favorable, it seems likely that the project had the trigger effect that helped the project to serve as a catalyst in realizing substantial changes in the lighting market in Vietnam over a relatively short time frame. Given that the project is a Medium Sized project with modest budget, it is commendable that it exceeded most of the End of Project targets and tried to see how it could add activities that went beyond the project document’s log frame. The Terminal Evaluation will have to be conducted soon in order to evaluate the sustainability of the project’s results.    Taken all the above together, it is deemed appropriate to rate the Development Objective Progress of the project as Satisfactory.    IMPLEMENTATION PROGRESS RATING    With an overall delivery rate of 87.3% after 4 years of implementation and 52.2% delivery rate of the annual work plan after 6 months of implementation it shows that the project’s delivery is on track. The project’s activities are more or less finalized and the remaining of the year will be dedicated to communication, financial closure and the Terminal Evaluation. The project will thereby need to ensure that an eye will be kept on the Annual Work plan commitment so that the project can be closed will full expenditure of the project budget.    On the basis of these observations, the Implementation Progress Rating is rated as Satisfactory.    RECOMMENDATIONS    The project team is advised to quickly start the process of Terminal Evaluation of the project. Although it may be difficult to attribute exact numbers as to the share and impact of the project in light of the overall impetus for LED lighting transformation in Vietnam, the Terminal Evaluation may want to look at the decisive influence and catalyzing impact of the project in this market transformation. | |

# Gender

**Progress in Advancing Gender Equality and Women's Empowerment**

This information is used in the UNDP-GEF Annual Performance Report, UNDP-GEF Annual Gender Report, reporting to the UNDP Gender Steering and Implementation Committee and for other internal and external communications and learning.  The Project Manager and/or Project Gender Officer should complete this section with support from the UNDP Country Office.

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| **Gender Analysis and Action Plan:** *not available* |
| **Please review the project's Gender Analysis and Action Plan. If the document is not attached or an updated Gender Analysis and/or Gender Action Plan is available please upload the document below or send to the Regional Programme Associate to upload in PIMS+. Please note that all projects approved since 1 July 2014 are required to carry out a gender analysis and all projects approved since 1 July 2018 are required to have a gender analysis and action plan.** |
| *(not set or not applicable)* |

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| **Please indicate in which results areas the project is contributing to gender equality (you may select more than one results area, or select not applicable):** |
| Contributing to closing gender gaps in access to and control over resources: No |
| Improving the participation and decision-making of women in natural resource governance: No |
| Targeting socio-economic benefits and services for women: No |
| Not applicable: Yes |

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| **Atlas Gender Marker Rating** |
| **GEN1:** some contribution to gender equality |

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| **Please describe any experiences or linkages (direct or indirect) between project activities and gender-based violence (GBV). This information is for UNDP use only and will not be shared with GEF Secretariat.** |
| *(not set or not applicable)* |

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| **Please specify results achieved this reporting period that focus on increasing gender equality and the empowerment of women.**    **Please explain how the results reported addressed the different needs of men or women, changed norms, values, and power structures, and/or contributed to transforming or challenging gender inequalities and discrimination.** |
| Yes  With the support of the UNDP / GEF project the production of lighting products has been significantly improved. This increases the chance for women to participate more in all stages of the production line with higher incomes and the equivalent of men. |

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| **Please describe how work to advance gender equality and women's empowerment enhanced the project's environmental and/or resilience outcomes.** |
| Yes  As mentioned above, with the more modern technological lines, women's participation in the production chain increases and is comparable to that of men. Women's advancement and higher status are also enhanced, especially after technical assistance from the UNDP / GEF project. |

# Social and Environmental Standards

**Social and Environmental Standards (Safeguards)**

The Project Manager and/or the project’s Safeguards Officer should complete this section of the PIR with support from the UNDP Country Office. The UNDP-GEF RTA should review to ensure it is complete and accurate.

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| **1) Have any new social and/or environmental risks been identified during project implementation?** |
| No |

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| **If any new social and/or environmental risks have been identified during project implementation please describe the new risk(s) and the response to it.** |
| N/A |

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| **2) Have any existing social and/or environmental risks been escalated during the reporting period? For example, when a low risk increased to moderate, or a moderate risk increased to high.** |
| No |

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| **If any existing social and/or environmental risks have been escalated during implementation please describe the change(s) and the response to it.** |
| N/A |

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| **SESP:** *not available*  **Environmental and Social Management Plan/Framework:** *not available* |
| **For reference, please find below the project's safeguards screening (Social and Environmental Screening Procedure (SESP) or the old ESSP tool); management plans (if any); and its SESP categorization above. Please note that the SESP categorization might have been corrected during a centralized review.** |
| *(not set or not applicable)* |

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| **3) Have any required social and environmental assessments and/or management plans been prepared in the reporting period? For example, an updated Stakeholder Engagement Plan, Environmental and Social Impact Assessment (ESIA) or Indigenous Peoples Plan.** |
| No |

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| **If yes, please upload the document(s) above. If no, please explain when the required documents will be prepared.** |
| N/A |

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| **4) Has the project received complaints related to social and/or environmental impacts (actual or potential )?** |
| No |

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| **If yes, please describe the complaint(s) or grievance(s) in detail including the status, significance, who was involved and what action was taken.** |
| N/A |

# Communicating Impact

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| **Tell us the story of the project focusing on how the project has helped to improve people’s lives.**  **(This text will be used for UNDP corporate communications, the UNDP-GEF website, and/or other internal and external knowledge and learning efforts.)** |
| The deployment of the project has just completed by June 2019, which has impact not only on CO2 emission reduction, energy saving but also the quality of life of the people. |

**Knowledge Management, Project Links and Social Media**

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| **Please describe knowledge activities / products as outlined in knowledge management approved at CEO Endorsement /Approval.**    **Please also include: project's website, project page on the UNDP website, blogs, photos stories (e.g. Exposure), Facebook, Twitter, Flickr, YouTube, as well as hyperlinks to any media coverage of the project, for example, stories written by an outside source. Please upload any supporting files, including photos, videos, stories, and other documents using the 'file lirbary' button in the top right of the PIR.** |
| - Project's website: http://htd.vn/du-an-chieu-sang.html; http://htd.vn/led-lighting-projects.html  - Project page on the UNDP website: http://www.vn.undp.org/content/vietnam/en/home/operations/projects/environment\_climatechange/led-technologies-for-advanced-general-lighting.html  - Photos stories (e.g. Exposure):  https://www.facebook.com/duan.led.5/posts/195707558015800  https://www.facebook.com/duan.led.5/posts/327846804801874  https://www.facebook.com/duan.led.5/posts/307117636874791  https://www.facebook.com/duan.led.5/posts/191839998402556  https://www.facebook.com/duan.led.5/posts/190625355190687  https://www.facebook.com/duan.led.5/posts/167114214208468  - Facebook: https://www.facebook.com/duan.led.5  - YouTube: https://www.youtube.com/channel/UCc6baYkjm894umagKRSZjcQ  - Some hyperlinks to media coverage of the project (for example, stories written by an outside source):  http://htd.vn/project-activities/consultation-workshop-on-national-led-lighting-industry-development-roadmap-up-to-2025-1098.html  http://htd.vn/project-activities/consultation-workshop-vietnam-national-standards-labeling-and-certification-program-for-led-lighting-products-1100.html  http://www.vn.undp.org/content/vietnam/en/home/presscenter/pressreleases/2018/energy-labelling-for-led-lighting-products-contributing-to-energ.html  http://www.vast.ac.vn/en/news/activities/1871-workshop-on-energy-labeling-and-certification-for-led-lighting-products  - Book (in Vietnamese): LED Lighting Technologies and Applications (ISBN: 978-604-973-705-3), Thanh Niên Publishing House, Quarter 4/2018, Ha Noi  - Proceedings in the National Symposium on Lighting Science and Technology 2017 on “Smart Urban Lighting in Response to the Fourth Industrial Revolution (I 4.0)” and National Symposium on Lighting Science and Technology 2019 on “Vietnam Lighting in the Digital Era - Opportunities and Challenges” (co-organized with Viet Nam Lighting Association) |

# Partnerships

**Partnerships & Stakeholder Engagment**

Please select yes or no whether the project is working with any of the following partners. Please also provide an update on stakeholder engagement. This information is used by the GEF and UNDP for reporting and is therefore very important!  All sections must be completed by the Project Manager and reviewed by the CO and RTA.

|  |
| --- |
| **Does the project work with any Civil Society Organisations and/or NGOs?** |
| Yes |

|  |
| --- |
| **Does the project work with any Indigenous Peoples?** |
| No |

|  |
| --- |
| **Does the project work with the Private Sector?** |
| Yes |

|  |
| --- |
| **Does the project work with the GEF Small Grants Programme?** |
| No |

|  |
| --- |
| **Does the project work with UN Volunteers?** |
| No |

|  |
| --- |
| **Did the project support South-South Cooperation and/or Triangular Cooperation efforts in the reporting year?** |
| No |

|  |
| --- |
| **Request for MSP Approval:** [PIMS 5193 VIE LED CER Document 160115.doc](https://undpgefpims.org/attachments/5193/213906/1683820/1684111/PIMS%205193%20VIE%20LED%20CER%20Document%20160115.doc) |
| **Provide an update on progress, challenges and outcomes related to stakeholder engagement based on the description of the Stakeholder Engagement Plan as documented at CEO endorsement/approval (see document below). If any surveys have been conducted please upload all survey documents to the PIR file library.** |
| Civil Society Organisations and/or NGOs  The project regularly work and consult with civil society organizations such as the Viet Nam Lighting Association (VLA) on the labelling and certification of LED lights and the LED market trends during the implementation of the project activities in the reporting period.    Private Sector  The project continues working with LED lights producers through providing technical support and guidance to the companies in preparation for their products and application for their products to be labelled. |

# Annex - Ratings Definitions

**Development Objective Progress Ratings Definitions**

(HS) Highly Satisfactory: Project is on track to exceed its end-of-project targets, and is likely to achieve transformational change by project closure. The project can be presented as 'outstanding practice'.

(S) Satisfactory: Project is on track to fully achieve its end-of-project targets by project closure. The project can be presented as 'good practice'.

(MS) Moderately Satisfactory: Project is on track to achieve its end-of-project targets by project closure with minor shortcomings only.

(MU) Moderately Unsatisfactory: Project is off track and is expected to partially achieve its end-of-project targets by project closure with significant shortcomings. Project results might be fully achieved by project closure if adaptive management is undertaken immediately.

(U) Unsatisfactory: Project is off track and is not expected to achieve its end-of-project targets by project closure. Project results might be partially achieved by project closure if major adaptive management is undertaken immediately.

(HU) Highly Unsatisfactory: Project is off track and is not expected to achieve its end-of-project targets without major restructuring.

**Implementation Progress Ratings Definitions**

(HS) Highly Satisfactory: Implementation is exceeding expectations. Cumulative financial delivery, timing of key implementation milestones, and risk management are fully on track. The project is managed extremely efficiently and effectively. The implementation of the project can be presented as 'outstanding practice'.

(S) Satisfactory: Implementation is proceeding as planned. Cumulative financial delivery, timing of key implementation milestones, and risk management are on track. The project is managed efficiently and effectively. The implementation of the project can be presented as 'good practice'.

(MS) Moderately Satisfactory: Implementation is proceeding as planned with minor deviations. Cumulative financial delivery and management of risks are mostly on track, with minor delays. The project is managed well.

(MU) Moderately Unsatisfactory: Implementation is not proceeding as planned and faces significant implementation issues. Implementation progress could be improved if adaptive management is undertaken immediately. Cumulative financial delivery, timing of key implementation milestones, and/or management of critical risks are significantly off track. The project is not fully or well supported.

(U) Unsatisfactory: Implementation is not proceeding as planned and faces major implementation issues and restructuring may be necessary. Cumulative financial delivery, timing of key implementation milestones, and/or management of critical risks are off track with major issues and/or concerns. The project is not fully or well supported.

(HU) Highly Unsatisfactory: Implementation is seriously under performing and major restructuring is required. Cumulative financial delivery, timing of key implementation milestones (e.g. start of activities), and management of critical risks are severely off track with severe issues and/or concerns. The project is not effectively or efficiently supported.