



## **GREEN GROWTH AND ENVIRONMENT CONSULTANCY COMPANY LIMITED (EGGC)**

Contact: Tel: +84 336 105 688  
Email: [contact.eggc@gmail.com](mailto:contact.eggc@gmail.com)  
Registry ID # 0110364793



## GREEN GROWTH AND ENVIRONMENT CONSULTANCY COMPANY LIMITED (EGGC)

**EGGC** is the leading consultancy company in Viet Nam in the field of climate change, greenhouse gas (GHG) mitigation, waste management, renewable energy and energy efficiency.

At **EGGC**, we have a team of professional local and international experts with in-depth experiences in various fields as well as great commitment and dedication to our mission.

Company Name	GREEN GROWTH AND ENVIRONMENT CONSULTANCY COMPANY LIMITED (EGGC)
Founded	25/5/2023
Executive Director	Tran Thi Thu Trang
Office	No. 222E Doi Can street, Lieu Giai, Ba Dinh district, Hanoi, Vietnam
Number of staffs	10~20 people
Main business	<ul style="list-style-type: none"> <li>• Greenhouse inventory projects mitigation actions</li> <li>• Feasibility study, environmental impact assessment</li> <li>• Carbon credit projects</li> <li>• <i>Waste management</i></li> <li>• Policy advisory</li> <li>• Corporate advisory</li> <li>• Investment promotion</li> </ul>
Shareholder	Ms. Nguyen Châu Anh Ms. Tran Thi Thu Trang
Contact	Tel: +84 336 105 688 Email: <a href="mailto:contact.eggc@gmail.com">contact.eggc@gmail.com</a>

## Our Services and Activities

We provide a wide range of consulting service to support our clients in several main sectors, which are Greenhouse inventory projects and mitigation actions, carbon credit projects, policy advisory, corporate advisory, and investment promotion.

- ✓ *Greenhouse inventory and mitigation actions*
- ✓ *Carbon credit advisory*
- ✓ *Waste management*
- ✓ *Water resource management*
- ✓ *Energy efficiency*
- ✓ *Policy advisory*
- ✓ *Corporate advisory*
- ✓ *Investment promotion*
- ✓ *Environmental propaganda*

<p><b>Greenhouse inventory and mitigation actions</b></p>		<p><b>Water resource management</b></p>
<p><b>Carbon credit advisory</b></p>	<p><b>ENVIRONMENT AND GREEN GROWTH</b></p>	<p><b>Environmental propaganda</b></p>
<p><b>Waste management</b></p>	<p><b>Policy advisory</b></p>	<p><b>Energy efficiency</b></p>

## **1. Summary of experience**

### **Extensive Knowledge of Vietnamese Climate services, Water Management, Waste management, Green Growth, and Policy Framework**

- We have provided numerous recommendations on climate-related policies, including mitigation and adaptation action plans, strategies, green growth, green taxonomy, economic tools, market-based mechanisms, and carbon market development in Vietnam.
- Our local leading experts with experience in regional and national projects funded by KOICA, ADB, UNIDO, World Bank, UNDP, WRI, etc can bring valuable insights and a deep understanding of Vietnam's specific circumstances, particularly in climate service, water management, waste management and green growth.
- We excel in the expertise required for developing carbon markets in developing countries, including Vietnam.
- The EGGC team possesses significant expertise in advising high-level Vietnamese policymakers and the private sector on legal and technical matters related to these areas.

### **Extensive Experience in Facilitating Multi-Stakeholder Meetings, Dialogue, and Capacity Building Programs**

- Our team includes researchers and facilitators with significant experience in conducting interviews and designing, facilitating, and leading workshops with various public and private stakeholders in Vietnam.
- We have successfully engaged a diverse range of stakeholders to foster a common understanding and share knowledge on energy, climate, sustainability, and environmental policies.
- We have a strong network with local ministerial agencies in Vietnam, such as MONRE, MPI, MOIT, MARD, MOC, and other local governments across cities and provinces.
- The EGGC team features leading experts in communication and stakeholder engagement for Carbon Pricing Instruments (CBIs), GHG

inventories, Green Taxonomy, Adaptation, Sustainability, Green Growth, Renewable Energies, and water resource management.

- EGGC serves as a central hub for local scientific communications and stakeholder engagement for capacity building and policy consultation workshops.
- Our team includes many highly educated Vietnamese experts with global knowledge and a deep understanding of local culture.

The following is a selection of past and present projects from EGGC that best demonstrate our ability to provide consulting services for various projects, including technical advising, knowledge transfer of Vietnamese climate and energy policy landscape, and enhancing stakeholder engagement. Key successfully implemented projects include:

2024	Funded by APEC Project “Improving the Resilience of APEC Vulnerable Coastal Communities to Climate Change”
2023-2024	Funded by KOICA Project “Propaganda Plan for the project “Promoting Energy Efficiency Investment Market in the Industrial Sector and Supporting the National Green Growth Action Plan of Vietnam”
2023	Funded by APEC Project “Economic Empowerment for Women Through Climate Change Mitigation and Adaptation”
2023	Funded by UNDP Project “Supporting Viet Nam/Viet Nam administration of Seas and Islands (VASI) in the negotiation and participation to the UN Treaty on plastic pollution”
2023	Funded by KEA/Verywords Pre-Feasibility Study on “Establishment of Rooftop Solar Farm Power Generation and Power Transaction Systems in Industrial Parks in Vietnam”
2022-2023	Funded by KOICA Project “Development of Technical Report for the Provincial Green Growth Action Plan (PGGAP) for ten provinces in industrial sector”
2022	Funded by GCF/UNDP Project “Development and delivery of dialogues, training courses on tools to priorities adaptation projects for sectors and provinces and tagging, categorizing investments for climate change adaptation”
2022	Funded by WRI Project “Organizing Training course on “Low Carbon and Environmentally Sustainable Development Planning based on a Green Economy Analytical Framework”
2022-2023	Funded by Asia Development Bank (ADB), Institute of strategy and policy on Natural Resource and Environment (ISPONRE) Project “Review, develop GHG inventory methodology and guidance for MRV monitoring; assess low-carbon technology need and emission reduction potential to

	propose low-carbon technology portfolio and pilot GHG inventory assessment and MRV in 3 cities (Hue, Ha Giang and Vinh Yen)”
2022	Funded by U.S Agency for International Development (USAID), Ministry of Industry and Trade (MOIT) Project “Develop MoIT’s Climate change and green growth action plan in the period 2021 -2030, vision to 2050”
2022	Funded by World Resources Institute (WRI) Project “Assessing the impact of green economic scenario on local socio-economic development using GEM model and green economic indicators” in Hanoi and Ho Chi Minh city
2022	Funded by APEC Project “Promoting Circular Economy and Sustainable Materials Management to Effectively Address Marine Plastic Litter in the Asia-Pacific”
2021	Funded by Hann Seidel Foundation Project “Assessing 10-year implementation of the Cleaner Production National Strategy”
2020	Funded by World Resources Institute (WRI) Project “Supporting Government of Viet Nam Developing Tools and Methods, for the Analysis of Climate Change Adaptation and Mitigation Options, and for Understanding the Climate, Environment and Socio-Economic Nexus for Inclusive Development – under the Climate Enhancement Action Package (CAEP) in Vietnam”
2020	Funded by APEC Project “Promoting innovative models in reducing and managing land-based debris into oceans for sustainable development”
2019	Funded by KCEP/WB/MOIT/MONRE Project “Development of a National Cooling Efficiency Management Plan”
2017-2018	Funded by UNDP/MPI Project “ <i>Strengthening Capacity and Institutional Reform for Green Growth and Sustainable Development in Vietnam</i> ” (CIGG) – Communication campaign for Green Growth (GG), sustainable consumption of transportation and commerce sector, etc., promoting green production models, green consumption, green lifestyle.

*And other relevant key projects that our key experts have experience.*

- Develop Vietnam Green Growth Strategy for the period 2021 – 2020, vision to 2050;
- Developing MRV system for livestock sector of Viet Nam;
- Updating National Action plan on Climate change respond for 2030, vision 2050;
- Inventorying and Forecasting Greenhouse Gases emissions from Energy and Industrial processes sectors in the year 2016; contributing Vietnam’s Third Biennial Updated Report (BUR3) to United Nations Framework Convention on Climate Change (UNFCCC);
- Developing Nationally Determined Contributions (NDC) of Construction



sector;

- Researching and developing MRV system for climate change responding actions in Viet Nam;
- Developing MRV system for livestock sector of Viet Nam;
- Research and propose a monitoring - reporting – verification (MRV) system of activities to respond to climate change in Vietnam;
- Greenhouse gas inventory and propose solutions to manage greenhouse gas emissions in Quang Ninh province;
- Green Growth Fund -Support the Ministry of Planning and Investment in researching and defining relevant policies to ensure commitment of Vietnamese government to COP22;
- Develop guidance for solid waste management for rural areas;
- Enhancing Capacity for Public Communities in Renewable Energy Producing from Livestock Wastes Adapting Climate Change;
- Hydro-quality modeling coupled with isotopic tracing for nutrient flow analysis at river at river basin scale;
- Developing An Eco – Industrial Park for Carbon Neutral Goal in Vietnam;

## 2. Executive Board and Experts

### Msc. Trang Tran (Founder and CEO)



Ms. Trang Tran is an expert on issues related to climate change, GHG inventory and green growth with over 12 years working with government agencies (MONRE, MOIT, MPI, etc.) development partners (UNDP, APEC, KOICA, JICA, ADB, etc.) in Vietnam.

Ms. Trang Tran has experience in climate change action plan development, greenhouse gas inventory, mitigations, MRV and green growth projects. At ministerial level, Ms Trang participated in developing MONRE’s climate change action plans and MoIT’s climate change and green growth action plans for the period 2021 - 2030, vision to 2050. She also researched on M&E for Vietnam national climate change strategy and national adaptation plan (NAP) implementation. At local level, Ms Trang was project manager to develop provincial climate change action plans and green growth action plans for the period 2021 - 2030, vision to 2050 for nearly 20

provinces in Vietnam such as Thai Nguyen, Cao Bang, Hoa Binh, Bac Ninh, Bac Giang, Vinh Phuc, Nghe An, Ha Tinh, Quang Nam, Binh Dinh, etc Related to GHG inventory and mitigation, Ms Trang participated in GHG inventory projects since 2015 with Departments of Natural resource and Environment in Hanoi, Bac Ninh, Quang Ninh, Hai Phong.

Ms Trang Tran graduated in Land administration and Post graduate in Sustainable Development.

**Msc. Hoa Vuong (Climate change expert, greenhouse gas inventory and green growth)**



Mr. Hoa Vuong is a national leading expert with more than 15 years of experience in technical management for projects on climate change, greenhouse gas inventory and green growth, working closely with government agencies and other stakeholders. He has experience in overseeing all engineering work and is responsible for the overall quality control of the project.

Mr. Hoa Vuong has worked as a consultant for projects such as: Developing Vietnam's Green Growth Strategy for the period of 2021 - 2020, with a vision to 2050; Building a dynamic base for the energy industry (focusing on PV solar power); Building the MRV system for the livestock industry in Vietnam; Update the National Action Plan on responding to climate change to 2030, with a vision to 2050; Inventory and Forecast of GHG emissions from Energy and Industry sectors in 2016; contributing Vietnam's Third Biennial Update Report (BUR3) to the United Nations Framework Convention on Climate Change (UNFCCC); Review policy and evaluate options to achieve permanent reductions in nitrogen oxide (N<sub>2</sub>O) emissions from nitric acid (HNO<sub>3</sub>) production in Vietnam; "Support assessment of social, economic and environmental impacts of provincial mitigation targets"; Construction Nationally Determined Contribution (NDC) to the construction sector; "Development of a feasibility study for the credit NAMAs, proposal of a carbon pricing tool and a roadmap for the application of market-based instruments (MBIs) in the field of solid waste management"; Strengthening the national greenhouse gas inventory system; "Research and build MRV system for climate change response activities in Vietnam"; Vertical integration and learning of low emission development. In addition, he has experience in implementing, monitoring and evaluating carbon projects, including community-based projects.

Mr. Hoa Vuong graduated in Energy Technology Engineering and Master in Sustainable Development.

**Dr. Lieu Nguyen (Climate change expert, greenhouse gas inventory and green growth)**





Ms Lieu Nguyen is a local expert with more than 15 years of experience as coordinator and consultant for climate change related projects (Climate assessment, action plan, adaptation to climate change. climate and MRV), greenhouse gas inventories and green growth. She has experience in developing project implementation plans and developing relevant technical reports in action plans, climate change adaptation, MRV, greenhouse gas inventories (energy sector, agriculture, industry, land use, land use change and forestry (LULUCF) and waste) and green growth.

Ms. Lieu Nguyen has worked as an expert on projects such as: Develop Vietnam Green Growth Strategy for the period 2021 – 2020, vision to 2050; Researching and developing MRV system for climate change responding actions in Vietnam; Developing MRV system for livestock sector of Vietnam; Research and propose a monitoring - reporting - appraisal (MRV) system of activities to respond to climate change in Vietnam. In addition, she has experience in implementing low-carbon development projects in Vietnam. Besides, she also has in-depth expertise in environmental and resource geography, organic agriculture, agriculture adapting to climate change, etc.

Ms. Lieu Nguyen graduated with a BA in Geography, a Master in Economic and Social Geography and a PhD in Environmental and Resource Geography.



#### **Msc. An Nguyen (Energy expert and energy audit)**

Mr. An Nguyen is a domestic expert with more than 17 years of experience in the field of research, implementation of energy saving projects and technical consulting for Thermal Power Plants, Cement, Steel in Vietnam. Performing energy audit consultancy for thermal power plants: Hai Phong, Quang Ninh, Uong Bi. He has participated in teaching training courses for staff at thermal power plants under EVN, TKV, and PV. He also participated in teaching an energy management class organized by the Ministry of Industry and Trade. Training on raising awareness and efficient use of energy organized by the provincial Department of Industry and Trade. He has been involved in teaching, training and research for many years in Thermal Energy Systems, Thermal Engineering and Energy Efficiency. Mr. An Nguyen participated in interesting fluidized bed and technology research classes; Research and install central heating system used in combination with solar panels for some hotels in Quang Ninh; Design boilers, heat exchangers, continuous vertical brick kilns, drying tunnels; Research on the combustion process of boilers in thermal power plants, cement; Research to improve the efficiency of thermal energy equipment in thermal power plants and in industry; Researching energy saving solutions and energy management systems; Studying the application of fluid

mechanics to liquids and gases; Research on optimization of turbines (heat turbines, pumps, fans, compressors); Optimization of the thermal network and central heating system; Research on the process of burning mixed coal in thermal power plants; Research on co-firing biomass coal in thermal power plants; Research on circulating fluidized bed pyrolysis technology to create bio-oil, H<sub>2</sub> and light HC gas.

Mr. An Nguyen has deep expertise in the field of economical and efficient use of energy. He has been a coordinator and consultant for a number of projects such as: Improving production efficiency and energy efficiency Viglacera Autoclaved Aerated Concrete Brick Factory, Bac Ninh; Development of technology and process for producing hydrogen-rich fuel gas and high calorific light hydrocarbons by catalytic reforming from biomass pyrolysis; Research on combined combustion of coal and wood pellets of biomass for boilers of thermal power plants. Besides, Mr. An Nguyen also has expertise in developing project implementation plans; Design, test equipment and thermal energy system; Consulting on application and building of ISO 50001 energy management model; Calculating energy resources; Auditing and making energy reports for energy saving projects; and Good use of some specialized software in the field of energy - environment.

Mr. An Nguyen graduated with a Bachelor of Energy Engineering and a Master of Science (energy technology).

#### **Dr. Nga Do (Expert in Water Resource Management)**



Ms. Nga Do is an expert with more than 10 years of experience in the field of water resource management, environment and renewable energy. She has consulted and implemented many projects on the environment and renewable energy, specifically: Development of Technical Report for the Provincial Green Growth Action Plan (PGGAP) for ten provinces in industrial sector” funds by KOICA ; National report on the current state of sea and island environment in the period 2016 - 2020; Report on the state of the national environment: River basin environment (2018), Domestic solid waste management (2019) and during 2016-2020; Technical support for VASI in developing content of the National Action Plan on ocean plastic waste management to 2030; Project Vietnam actively prepares and participates in the development of a Global Agreement on Ocean Plastic Pollution; Promoting APEC innovative models in reducing and managing land-based debris into oceans for sustainable development; Promoting APEC innovative models in reducing and managing land-based debris into oceans for sustainable development; Green Growth Fund - Support the Ministry of Planning and Investment in inquire and defining relevant policies to ensure commitment of Vietnamese government to COP22; Green Growth Strategy Facility (GGSF)” funds by Belgium, project code

VIE110411. Project Sector: 41010 Environmental policy and administrative management; Solid waste management plan for cities/provinces/regions (Can Tho city, An Giang, Thai Nguyen, Nam Dinh, Ha Giang, Song Cong, Dong Nai river basin region); Develop guidance for solid waste management for rural areas; Assessing recent human impacts on the Red River Delta, Vietnam to enable sustainable management; Enhancing Capacity for Public Communities in Renewable Energy Producing from Livestock Wastes Adapting Climate Change; Hydro-quality modeling coupled with isotopic tracing for nutrient flow analysis at river at river basin scale; Analysis and assessment sources, exchange and transport of heavy metals and nutrients in water and sediment environments in downstream of Cau River basin: a case study in Hai Duong province

Ms. Nga Do also has experience in teaching, training and research on cleaner production, environmental science and sustainable development. In addition, Ms. Nga Do also has experience in developing project implementation plans, evaluating and monitoring fieldwork results, and developing technical reports related to water and environmental management. environment, ocean waste, renewable energy, etc.

Dr Nga Do objective is to play a part for the betterment of both nature and people by sharing knowledge and skills.

Ms. Nga Do graduated with a Bachelor of Science in Chemistry, a Master of Science in Environmental Engineering and Management (in Thailand) and a Doctorate in Environmental Engineering in Integrated River Basin Management (in Japan).

Besides, EGGC has many partners who are domestic experts and consultants in different fields.

## Experts:



**Dr. Pham Huy Dong**  
IPPU expert



**Dr. Nguyen Thi Lieu**  
Climate change expert



**Msc. Vuong Xuan Hoa**  
GHG inventory expert



**Ass.Prof, Dr Mai Van Trinh**  
Agriculture expert



**MSc. Nguyen Van An**  
Energy Expert



**Msc. Vu Anh Tuan**  
Transportation expert



**Dr. Nga Do**  
Water Resource Management expert



**Dr. Nguyen Thi Hai**  
Agriculture expert



**Msc. Trinh Dinh Duy**  
GHG inventory expert



**Dr. Trinh Xuan Manh**  
Water Resource Management expert



**Msc. Do Quang Hung**  
Water Resource Management expert



### 3. List of Publications

1. *Tran Thi Thu Trang (2022), The development of Carbon market in Vietnam – The potential pathway till 2028, Vietnam Environment Administration Magazine, ISSN 2615-9597, Issue 06, p.46-50*
2. *Nguyen Toan Thang, Do Quang Hung, Tran Thi Thu Trang, Pham Thuy Hanh, (2021), Research on climate change adaptation demands of Vietnam's climate regions, Natural Resource and Environment Magazine, ISSN 1859 -1477, Issue 14 (364), p.36-38*
3. *Nguyen Toan Thang, Tran Thi Thu Trang, Nguyen Thi Bich Ngoc, Hoang Thi Thao (2021), The prioritized orientations of adaptation demand for Vietnam's climate regions, Vietnam Environment Administration Magazine, ISSN 2615 - 9597, Issue 8, p.22-25*
4. *Do, T.N., Le, T.T., Dinh, D.T., Pham, N.B., Nguyen, H.D. & Khanitchaidecha, W. (2021). Evaluation of prospects and barriers of biogas produced from livestock waste towards sustainable development and adaptation to climate change in Nghe An province, Viet Nam. *APN Science Bulletin*, 11(1): 81-88. DOI 10.30852/sb.2021.1587*
5. *Dinh, D.T., Do, T.N., Le, T.T., Pham, N.B., Nguyen, H.D., Khanitchaidecha, W. & Trinh, A.D. (2021). Utilisation of biogas as an untapped renewable energy source in Vietnam. *Economics and Policy of Energy and the Environment*. 16(1), 105-120. DOI: 10.3280/EFE2021-001006*
6. *Pham, N. B., Do, T. N., Tran, V. Q., Trinh, A. D., Liu, C., & Mao, C. (2021). Food waste in Da Nang city of vietnam: Trends, challenges, and perspectives toward sustainable resource use. *Sustainability (Switzerland)*, 13(13). <https://doi.org/10.3390/su13137368>*
7. *Luu, M. T. N., Dinh, T. D., Trinh, D. A., & Do, N. T. (2021). Water quality in an urbanized river basin impacted by multi-pollution sources: From comprehensive surveys to modelling. *ScienceAsia*, 47(1), 86–95. <https://doi.org/10.2306/scienceasia1513-1874.2021.014>*
8. *Panizzo, V., Roberts, L., Do, N., Taylor, S., Watts, M., Hamilton, E., McGowan, S., Trinh, D., Leng, M., and Salgado, J.: Transport and storage of anthropogenic contaminants in the Red River Delta, Vietnam, EGU General Assembly 2021, online, 19–30 Apr 2021, EGU21-15360, <https://doi.org/10.5194/egusphere-egu21-15360>, 2021.*
9. *Roberts, L. R., Moorhouse, H. L., Truong, O., Nguyen Thanh, P., McGowan, S., Panizzo, V. N., Barker, P., Do, N. T., Rahman, F. M. F., Salgado, J., Ghosh, T., Das, S., Salehin, M., Amin Chowdhury, A. I., Henderson, A. C. G., and Large, A. R. G.: The GCRF Living Deltas Hub: using water quality monitoring and lived experiences to achieve the UN Sustainable Development Goals, EGU General Assembly 2021, online, 19–30 Apr 2021, EGU21-2891, <https://doi.org/10.5194/egusphere-egu21-2891>, 2021.*

10. Do, T.N., Le, T.T., Pham, N.B., Dinh, D.T., Nguyen, D.H., & Khanitchaidecha, W. (2021). Evaluation of prospects and barriers of biogas produced from livestock waste towards sustainable development and adaptation to climate change in Nghe An province, Viet Nam. *APN Science Bulletin*, 11(1), 81 – 88. doi: 10.30852/sb.2021.1587
11. Do, T.N. and Nguyen, V.D. (2021) Water security in urban southeast asia under impacts of climate changes and rapid urbanization. *Urban Planning Magazine*, No.111. Vietnam Ministry of Construction (MOC)
12. Le, T.T., Do, T.N., Dinh, D.T. (2021) An analysis of potential and barriers for application of biogas in pig waste treatment in Vietnam. *Vietnam Environment and Administration Magazine*. Special Issue I/2021. Vietnam Ministry of Environment and Natural Resources (MONRE). ISSN 2615-9597
13. Do, T.N. (2020) Micro plastic pollution management in the river deltas - the solution for the problem of ocean plastics. *Urban Planning Magazine*, No.105 Vietnam Ministry of Construction
14. Do, T.N. and Trinh A.D. (2020) Assessment of surface water quality in Hanoi capital in the first four months of 2020. *Vietnam Environment and Administration Magazine*. Special Issue II/2020. Vietnam Ministry of Environment and Natural Resources (MONRE). ISSN 2615-9597
15. Do, T. N., Tran, V. B., Trinh, A. D., & Nishida, K. (2019). Quantification of nitrogen load in a regulated river system in Vietnam by material flow analysis. *Journal of Material Cycles and Waste Management*. <https://doi.org/10.1007/s10163-019-00855-z>
16. Ta, T. T., Trinh, D. A., & Do, N. T. (2018). Nitrogen flow assessment in rapidly urbanizing Hai Duong province, downstream of Cau River Basin, Vietnam. *Journal of Material Cycles and Waste Management*, 20(1), 533–542. <https://doi.org/10.1007/s10163-017-0616-2>
17. Dongo, K., Kouamé, P. K., Nguyen-Viet, H., Do-Thu, N., Biémi, J., & Zurbrügg, C. (2018). In-depth analysis of nitrogen flow in urban system in Low Income Countries: The case of Yamoussoukro in Côte d'Ivoire. *International Journal of Biological and Chemical Sciences*, 11(6), 3034. <https://doi.org/10.4314/ijbcs.v11i6.38>
18. Tran, V. B., Ishidaira, H., Nakamura, T., Do, T. N., & Nishida, K. (2017). Estimation of nitrogen load with multi-pollution sources using the SWAT model: A case study in the Cau river basin in Northern Vietnam. *Journal of Water and Environment Technology*, 15(3), 106–119. <https://doi.org/10.2965/jwet.16-052>
19. Nga, D. T., Thao, T. T., Van Tu, V., Phuc, P. D., & Nguyen-Viet, H. (2016). Development of nutrient cycle through agricultural activities of a rural area in the North of Vietnam. *Journal of Material Cycles and Waste Management*, 20(1).



<https://doi.org/10.1007/s10163-016-0557-1>

20. Bao, P. N., Aramaki, T., Nga, D. T., Kuyama, T., & Mitra, K. (2015). A Mixed Approach For Nutrient Management Planning In Southeast Asian Countries. *The Journal of Engineering Research*, 5(9), 90–106.
21. Do, N. T., Trinh, D. A., & Nishida, K. (2014). Modification of uncertainty analysis in adapted material flow analysis: Case study of nitrogen flows in the Day-Nhue River Basin, Vietnam. *Resources, Conservation and Recycling*, 88, 67–75. <https://doi.org/10.1016/j.resconrec.2014.04.006>
22. Do, T. N., & Nishida, K. (2014). A nitrogen cycle model in paddy fields to improve material flow analysis: the Day-Nhue River Basin case study. *Nutrient Cycling in Agroecosystems*, 100(2). <https://doi.org/10.1007/s10705-014-9639-4>
23. Do-Thu, N., Morel, A., Nguyen-Viet, H., Pham-Duc, P., Nishida, K., & Kootattep, T. (2011). Assessing nutrient fluxes in a Vietnamese rural area despite limited and highly uncertain data. *Resources, Conservation and Recycling*, 55(9–10), 849–856. <https://doi.org/10.1016/j.resconrec.2011.04.008>
24. Nga Do-Thu, Antoine Morel, Phuc Pham-Duc, Hung Nguyen-Viet, Thammarat Kootattep (2011) Material Flow Analysis – A Tool for Nutrient Resource Management. Strategic Environmental Sanitation Planning. Sandec News 11 / 2010. <https://www.researchgate.net/publication/273124425>
25. Nga, D. T., Kazama, F., & Kei, N. (2010). Application of Material Flow Analysis in assessing nutrient fluxes in Day–Nhue river basin, Vietnam. International Water Association. <https://doi.org/10.13140/RG.2.1.3755.2483>

## 6. Certificates



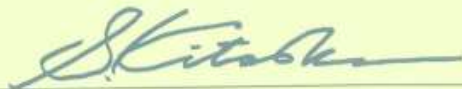
## Certificate

*This is to certify that*

*Ms. TRAN Thi Thu Trang  
successfully completed in Knowledge Co-Creation Program*

*"Adaptation to Climate Change"*

*organized by the Japan International Cooperation Agency  
in collaboration with the Overseas Environmental Cooperation Center  
from September 6, 2021 to October 8, 2021  
under the International Cooperation Program of  
the Government of Japan.*



*KITAOKA Shinichi  
President,  
Japan International Cooperation Agency  
Date: October 8, 2021*



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# Asian Cities Climate Resilience

WORKING PAPER SERIES 24: 2015

## Local planning for climate adaptation: Vietnam's experience

NGUYEN PHUONG NAM, TRAN THI THU TRANG, STEPHEN TYLER,  
NGUYEN QUYNH ANH, BACH TAN SINH, NGUYEN NGOC HUY, PHAM KHANH,  
DANG THI HUONG



# Certificate of Participation

This certificate is presented to

DINH DUY TRINH

It documents that they have participated in the LEAP training for Vietnam in April 2021 organized by the Global Support Programme (GSP)

Fatima-Zahra Taibi  
Senior Advisor  
GSP/UDP Project Manager

*Fatima-Zahra Taibi*



GLOBAL SUPPORT  
PROGRAMME



UNEP DTU  
PARTNERSHIP

  
Department of Climate Change

 ENERGY  
TRANSITION  
PARTNERSHIP  
Facilitating Policy-making and Financing Transformation in South-East Asia

 UNOPS

## GIẤY CHỨNG NHẬN CERTIFICATE

Nguyễn Thị Liễu

Đã hoàn thành Khóa đào tạo về ETS và thị trường các-bon sử dụng công cụ mô phỏng CarbonSim  
*Has participated in the Training Course on Emissions Trading System and Carbon Markets,  
using the CarbonSim Simulation Tool*

Hà Nội, 26-27/02/2024



Tang The Cuong  
Cục trưởng  
Cục Biến đổi khí hậu  
Director General  
Department of Climate Change



John Robert Cotton  
Quản lý Chương trình Cấp cao  
ETP-UNOPS  
Senior Programme Manager  
ETP-UNOPS



## 7. Photo library

### **Workshop On Developing an Eco – Industrial Park for Carbon Neutral Goal in Vietnam**

Workshop "Promoting green growth in the industrial sector: Orientations for developing eco-industrial parks in Vietnam", organized by the Department of Science, Education, Natural Resources and Environment - Ministry of Planning and Investment on October 6, in Hanoi, with the participation of leaders of the Department of Economic Zones Management - Ministry of Planning and Investment, economic zone and industrial park management boards, provincial officials, industrial infrastructure development partners, press agencies and representatives of Korean energy agencies, Global Green Growth Institute, Verywords, Theyday, Apull Power, Asian Network Energy...

Communication:

<https://vir.com.vn/eco-industrial-parks-to-become-inevitable-trend-96994.html>

<https://baodauthau.vn/tao-dong-luc-phat-trien-khu-cong-nghiep-sinh-thai-post129470.html>

<https://kinhtevadubao.vn/nhan-rong-quy-mo-cac-khu-cong-nghiep-sinh-thai-de-thuc-dang-truong-xanh-phat-trien-ben-vung-24204.html>







A technical assistance - **“Promoting Energy Efficiency Investment Market in the Industrial Sector and supporting the National Green Growth Action Plan of Vietnam”** Project between MOIT, MPI and KOICA for the period 2021-2025 was established. Since August 2022, the component for supporting the establishment of provincial green growth action plans has been implemented. Results of the component have provided technical reports of provincial green growth action plans for 10 industrial provinces in Vietnam contributing to national green growth orientation. The final conference of the component was organized on August 17th, 2023, at Tan Da Resort, Ba Vi, Hanoi.

*Communication:*

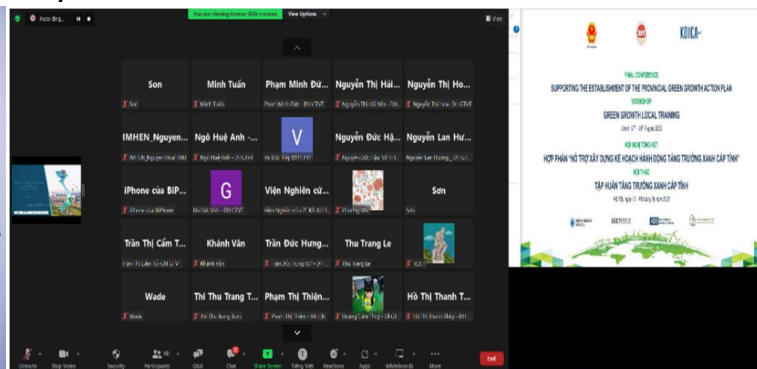
<https://vir.com.vn/koica-held-conference-on-green-growth-action-plans-104562.html>

<https://www.qdnd.vn/xa-hoi/tin-tuc/phat-thai-rong-bang-0-no-luc-cua-10-tinh-thanh-dau-tien-khoi-sac-739020>

<https://bacninh.gov.vn/news/-/details/20182/tong-ket-du-an-ho-tro-xay-dung-ke-hoach-hanh-ong-tang-truong-xanh-cap-tinh-48768382>



**Green Growth Local Training:** 301 participants in total (including 45 offline participants and 256 online participants). This book is the training material which developed by Korean and Vietnamese experts for Green Growth Local Training that implements between 17th and 18th August as part of the project "Promoting Energy Efficiency Investment Market in the Industrial Sector and Supporting the National Green Growth Action Plan of Vietnam (2021-2025)" promoted by the KOICA, contributed to strengthening the capacity of Vietnamese public officials to implement green growth policies





**Propaganda Plan for the project “Promoting Energy Efficiency Investment Market in the Industrial Sector and Supporting the National Green Growth Action Plan of Vietnam”**

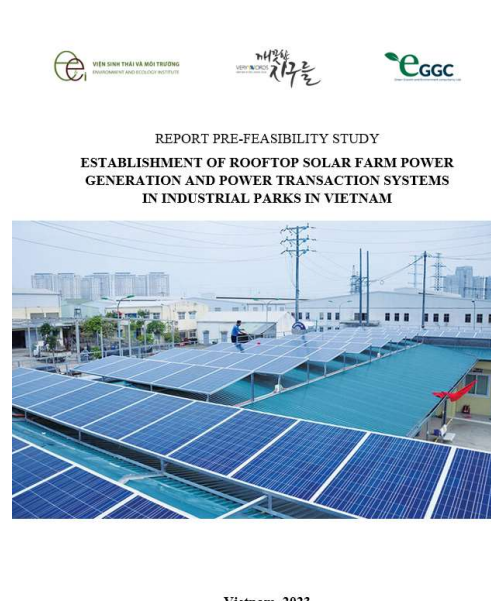
2023

A product of broadcasting video was broadcasting the first time at 20:39 October 31st, 2023 and second time at 11: 00 November 2nd, 2023 in VTV2 channel. The video was broadcasting in Vietnamese with English sub-title. The other version in Vietnamese and Korean sub-tittle is produced and shared with project management unit for communication purpose in other channels. The video is also communicated in official VTV website – VTVgo platform for online broadcasting and streaming. The link of the video on VTVgo is: <https://vtvgo.vn/ts/12651340>



**Pre-Feasibility Study  
Establishment of Rooftop Solar Farm  
Power Generation and Power  
Transaction Systems in Industrial  
Parks in Vietnam (2023)**

More than 100 stakeholders including Kinh Bac Holding and their partners in Que Vo industrial park (Que Vo, Bac Ninh) are participated in project to investigate the potential to establish a model of rooftop solar farm and power transaction system in candidate industrial park. EGGC is the local partner of Verywords and KEA in implementing this study in Vietnam.



Vietnam, 2023





## 6. Our partners



## Communication partners



Thank you very much for reading!

More information, please contact us:

**GREEN GROWTH AND ENVIRONMENT CONSULTANCY COMPANY LIMITED (EGGC)**

Tel: +84 336 105 688

Email: [contact.eggc@gmail.com](mailto:contact.eggc@gmail.com)