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My dear colleagues,

Welcome to the Summer 2016 edition of Niras Vietnam Newsletter.

The first two quarters of the year 2016 has been passed and highlighted with the significant achievements that you all have gained.

As usual, I am extremely proud to announce the company has spectacularly completed the goals of the first 6 months with completion of several important international projects such as NAMA Cement Vietnam, Nama Bhutan, CPEE Paper Benchmarking. I hope you continue with this good spirit to the next two quarters of the year 2016 and your endeavour will be fruitful.

Niras Denmark will be 100 years in this September. Now let's celebrate together and enjoy this Newsletter with your achievements inside.

Wish you all a great Summer.

All the best,

Nguyen Tuan Anh

## CSU News

UNDP- VGGS  
JICA- ESCO



### Integrating Energy Sectors into the draft "Investment Guideline for Green Growth in Viet Nam

*Under the framework of the project "Sustainable Development and Climate Planning" which is sponsored by UNDP and coordinated by the Department of Science, Education, Natural Resources and Environment, Ministry of Planning and Investment (DSENRE/MPI), NIRAS Vietnam's consultant has been selected for the assignment to integrate energy sector into the draft "Investment Guideline for Green Growth in Viet Nam" through the inclusion of sector-specific modules.*

This assignment will focus on energy-related activities contained in the Green Growth Action Plan (GGAP) such as (1) reducing the intensity of GHG emissions and promoting the use of clean and renewable sources of energy, (2) Greening production.

Within this study, Niras Vietnam expert has been performed a guidance on how to prioritize interventions in the Green Growth Action Plan, including tools and criteria to assess trade-offs and measure benefits and costs in terms of advancing green growth.

This Guideline will serve as a key decision-support tool in the context of investment planning. Review of the Energy Planning for Green Growth; Establishment of the Methodology and Analytical Framework; Development of Draft Modules etc.,

The final Guideline will contain practical for the next generation Social Economic Development Plan (SEDP) from 2016 to 2020.

### Presentation on ESCO and other Energy Saving Activity at Halong

Under the framework of JICA Study Team for Halong Green Growth Project, sponsored by The Japan International Cooperation Agency (JICA), NIRAS Vietnam was selected to provide to support with awareness raising on Energy Service Business (ESCO) among relevant local departments in Quang Ninh Province.

An introduction on ESCO and other energy saving activity in Halong City was made by NIRAS Vietnam's expert at a Consultation workshop which was chaired by Department of Planning & Investment of Quang Ninh province dated 14 March 2016. During the workshop, NIRAS Vietnam's expert has reviewed existing legislation on energy efficiency and conservation, definition of ESCO and different ESCO models exist in the market as well as some of financing sources available for energy efficiency investment projects.

The Consultation workshop for Green Growth Promotion in Halong Bay Area has attracted participation from different local departments and agencies in Quang Ninh province



## CSU News

World Bank – VEEIE  
JICA – NAMAs HCMC

JICA is implementing the “Project to Support the Planning and Implementation of NAMAs in a MRV Manner” together with the Ministry of Natural Resources and Environment (MONRE), Vietnam. The purpose of the project is to enhance the capacity of the Government of Vietnam concerning the planning and implementation of NAMAs. Part of the project activities focus on Hochiminh city (HCMC) and other cities of Vietnam.

The Short-Term Expert Team shall: 1) assist the establishment and enhancement of the capacity of the cities in Vietnam to continuously quantify GHG emissions and reductions, taking HCMC as a model city; 2) develop and recommend an MRV style applicable at the city level in Vietnam; and 3) promote the planning, implementation and management of NAMAs in Vietnam through the development and dissemination of materials to assist the capacity enhancement of the cities in Vietnam.

During the mission, consultation meetings have been organized with the Climate Change Steering Board and relevant local departments. The project progress as well as the overview of GHG inventory, NAMA and MRV have been updated for local authorities.

RCEE- NIRAS has been selected to implement the assignment: Food Processing Industry – Strategic Sector Study and Subproject Pipeline Development for Improving Energy Efficiency with Integrated Ozone and Climate Benefits. The assignment is part of the project “Vietnam Energy Efficiency for Industrial Enterprises Program (VEEIEs), a cooperation between the World Bank (WB) and General Department of Energy/MOIT to promote EE investment projects among Vietnamese industrial enterprise.”

As one of the project output, the Consultant has developed energy benchmarking methodology as well as the benchmarking results for 03 selected sectors: sugar, seafood processing and dairy. A consultation workshop was organized by GDE/MOIT on 09<sup>th</sup> June 2016 to present the benchmarking methodology as well as the assessment of energy saving potentials in 03 selected sectors based on the results of a comprehensive survey of the food processing industry.

Over 30 experts from MOIT/GDE, food processing associations, institutes, universities, consulting companies were present and contributed to a fruitful discussion. MOIT/GDE expect to release a new policy regulating the sector's energy efficiency upon the results of this assignment

## Support the Planning and Implementation of NAMAs in a MRV Manner

*A mission has been organized by the international and local consultants in Hochiminh City from 4<sup>th</sup>- 8<sup>th</sup> January 2016.*

## Consultation workshop “ENERGY EFFICIENCY BENCHMARKING IN FOOD PROCESSING SECTOR”.

*On 9th June 2016, GDE/MOIT successfully organized the consultation workshop “ENERGY EFFICIENCY BENCHMARKING IN FOOD PROCESSING SECTOR”.*



## CSU News

### WORKSHOPS NDF – NAMA CEMENT



## Dissemination of Readiness Plan for Vietnam Cement Sector and GHG Reduction Action Plan in Cement Sector

*After 02 years of implementation, the Final workshop for The Nordic Partnership Initiative Pilot programme for supporting up-scaled climate change mitigation action in Vietnam's cement sector was organized on 17 June, 2016 at Pullman hotel, Hanoi.*

After 02 years of implementation, the Final workshop for The Nordic Partnership Initiative Pilot programme for supporting up-scaled climate change mitigation action in Vietnam's cement sector was organized on 17 June, 2016 at Pullman hotel, Hanoi. The objectives of this workshop are to present the project achievements and recommendations for the NAMA Readiness Plan as well as the draft Greenhouse Gas (GHG) reduction action plan in cement sector.

For the opening section, Mr. Le Trung Thanh – Director of Department of Science, Technology and Environment/Ministry of Construction (DSTE/MOC) has briefed the general context of Vietnam Cement production industry and forecasted the total emission volume in 2030. He also emphasized that as the roles of the line minister in charge of cement sector, Ministry of Construction has developed its plan and strategies for CO<sub>2</sub> emission reduction in cement sector, the Readiness Plan in cement sector includes the financing plan as well as proposal for policy mechanism to overcome the barriers for the implementation of mitigation measures.

Several topics have been discussed during the workshop. A presentation on Readiness Plan for NAMA cement Vietnam has been presented by NIRAS A/S, on behalf of the consultant consortium. Representatives from MOC have introduced the draft GHG emission reduction Action Plan for Vietnam cement sector and as well as measures on development policy and mechanism of Vietnam cement sector. Discussions by the private sector on their plan for GHG emission reduction activities have been presented by VICEM and Holcim Vietnam. Also, financial solution for WHR projects has been presented by Dragon Capital Company.

The workshop has received much attention and participation of over 90 representatives participants from Ministry of Construction, Nordic Development Fund represented by the Swedish Embassy, NOAK represented by the Swedish Energy Agency, Ministries such as MPI, MOF, MONRE etc., and relevant agencies, cement companies, representatives of donors such as AFD, GIZ, BTC-GGSF, UNDP, representatives of Associations and Institutes, investors, the media and as well as other stakeholders.



## CSU News

### TRAINING PROGRAMME

NIRAS Sweden – ITP SEA

NIRAS Vietnam and VESDEC (Vietnam Institute for Environmental Science and Development) and GIZ have supported NIRAS Sweden and University of Gothenburg / Chalmers University organized the training program "Strategic Environmental Assessment (SEA) 2015 ASIA – Phase 4 – Regional program in Vietnam" at Hoi An, Vietnam from 16 to 26<sup>th</sup> May, 2016, under the framework of the Advance International Training Programme on Strategic Environmental Assessment (SEA) – ITP2015B financed by the Swedish International Development Cooperation Agency (Sida).

The training programme ITP 2015B consists of five phases, of which phase 2 was concluded in Sweden November 9-27, 2015 and phase 1,3,5 are conducted by the participants in their home countries on a part-time basis focusing on developing and implementing so-called **SEA Projects**.

The objective of the programme ITP 2015B is to **strengthen the SEA capacity of the participants' organizations**, by supporting processes of organizational change related to SEA in which the purpose of Phase 4 is to bring in case examples of SEA in practice, from Vietnam and from the region; to introduce additional practical tools for implementing SEA; and for the participants to continue developing their SEA Projects.

During the training programme, there were many activities taken place such as the field trips at Hoi An Beach for erosion cases, Dakmi 4 Hydro power plant for SEA practice, excursion trip at Cham Island, etc.,

In this phase 4 training, 29 participants have been selected from Bangladesh, Cambodia, Lao PDR, Myanmar, and Vietnam. A majority of them work at national ministries and agencies, whereas a few represent regional or municipal agencies or NGOs. They work in different sectors related to SEA and development planning (forestry, urban planning, energy, agriculture, transportation and environment).

## Advanced International Training Program on Strategic Environmental Assessment (SEA) 2015 ASIA – Phase 4 – Regional program in Vietnam

*During the training programme, there were many activities taken place such as the field trips at Hoi An Beach for erosion cases, Dakmi 4 Hydro power plant for SEA practice, excursion trip at Cham Island, etc.,*



**EMS News**

LCEE – GIF  
JICA – GGAP

**The Energy saving award ceremony for Projects for conversion from coal – fired kiln to LPG kiln at Kim Lan Ceramic Village**

Base on the post check result which is conducted by NIRAS Vietnam- the technical service provider for LCEE Project, LCEE project had coordinated with Danish International Development Agency (DANIDA) & GDE/MOIT to organize the Energy Saving Ceremony at Kim Lan Commune People’s Committee, Gia Lam District, Hanoi.

This time, the Energy Saving awarded was sent to 2 private businesses which were run by Mr. Vu Van Hung and Mr. Nguyen Van Lan for their achievements in saving energy and environmental protection after converting from coal-fired kiln to LPG kiln. They were given the maximum level award of the project with 30% of the loan, appropriately VND140 million for Mr. Vu Van Hung and VND132 million for Mr. Nguyen Van Lan. These are the first two private businesses in Kim Lan Village received the loan with the guarantee of GIF to convert from coal-fired kiln to LPG kiln.

Attending the ceremony, there were: Mr. Do Duc Quan – Vice General Director of General Directory Energy (GDE), Mr. Trinh Quoc Vu – General Director of GDE, Ms. Charlotte Lausen – Danish Ambassador, Representatives of Green Investment Fund (GIF), RCEE- NIRAS’s consultants, LCEE management team, Vietcombank, media etc.,

**Surveying and Assessing of the Potential for carrying out of ESCO**

*The Enterprise which has feasible projects will be supported in establishing the investment reports for the EE sub projects to receive the soft loan from JICA funds.*

Under the framework of the study which is prepared for the project “Establishment the Green Growth Action plan for Quang Ninh province”, NIRAS Vietnam experts coordinated with JICA organization and representatives of Department of Scientist and Investment of Quang Ninh province to survey the manufacturing models and interview the representatives of some Enterprises which has implemented the Energy Efficiency Audit to identify the feasible pilot projects. The Enterprise which has feasible projects will be supported in establishing the investment reports for the EE sub projects to receive the soft loan from JICA funds.

Through the selection criteria, the consultant group has implemented the interview from 25 to 26th May 2016 at 7 units which has the scope of works in Cement production, Ceramic, Tiles, Rare earth metal, including: Vinh Thang JSC, Hoang Ha color ceramic JSC, Vinh Tien JSC, Lam Thach 2 JSC, Thang Long cement JSC, Cotto Gieng day Brick factory, Integral Materials Investment Vietnam Co., Ltd

The objective of the interview is to: (1) Overall evaluating the current state of using energy and the production state of the company; (2) Identifying the energy efficiency measures which has been implemented by the company; (3) Identifying the potential EE solution which the company have investment plan; (4) Detect problems and barriers in implementing the expected Energy Efficiency projects; (5) Introduction about the ESCO model.



## Assessment of the Project "Conversion of Coal fired boiler into Biomass fired boiler of ABC JSC."

ABC was established in 2006 and operated in the field of animal feed production. Currently, due to the high demand of the aquaculture feed production, the steam inquires is being increased while the current boilers has a lot of disadvantages, ABC has decided to invest 1 biomass fired steam boiler with a capacity of 6 tons per hour and the pressure design of 10 bars using CFB furnace technology with high performance in replacement of the existing biomass/coal fired boiler.

Through the field survey program combining with document verification and professional experience, Niras Vietnam's experts – the project's Technical service provider (TSP) - asserted that ABC has decided to invest into the project as the context of initial proposal. The solution of converting coal / rice husk fired boiler to rice husk fired boiler will completely achieved the project's minimum technical standard, with available water treatment system, condensate recovery systems, water warming & air drying system, distribution pipe's temperature etc.,

Until now, ABC had completed installing the new boiler and NIRAS Vietnam's experts conducted the post check program in the middle of July 2016. Base on the TSP's analysis result about actual energy saving potentials, LCEE project will determine the reward scale.



### EMS News

LCEE- GIF

## Conversation of direct drying tunnel to environmental protection Indirect drying tunnel

Tantien was established in 2000. Its scope of work ranges from timber processing to manufacturing wood products.

At the time of the survey, the company had already removed the old furnace to prepare the ground for a steam drying system. The new boiler is expected to save nearly 42% of the annual energy consumption and reduce Green House Gases (GHG) emissions.

Through surveying programs and data verification, NIRAS Vietnam experts confirmed Tantien initial investment

decision. The solution of converting the direct drying tunnel to indirect drying tunnel is expected to meet the minimum technology criteria of the project. Tunnel specifications are adapted to Vietnam standards which include: water treatment systems, condensate recovery systems, temperature of distribution on the pipes surface. Beside, the new system also has other economic and environmental benefits.

*Continuing the Green Investment Financing (GIF) program which is under the framework of the project "Low Carbon transition in Energy Efficiency (LCEE)" sponsored by the Danish International Development Agency (DANIDA), **NIRAS Vietnam provided expertise** for the project "Conversation of direct drying tunnel to environmental protection Indirect drying tunnel" at Tan Tien Co. Ltd (Tantien) and Conversion of Coal fired boiler into Biomass fired boiler of ABC Joint stock company (ABC) at Kha Duy, Doan Dao commune, Phu Cuong District, Hung Yen Province*

## EMS News

En – Audit activities



### ENERGY AUDIT PROGRAM AT 2 COMPANIES: SONG CON & LAM SON SUGARCANE & SUGAR

*Under the framework of the project "Strategic sector study and subject pipeline Development for Improving Energy Efficiency (EE) with integrated Ozone and Climate Benefits - VEEIE - Food processing Industry", the enterprises will be supported to conduct the detailed energy audit program, establish the feasibility study report for the EE subproject, and approach the banks which have joined the Vietnam Energy Efficiency Financing for Industrial Enterprises (VEEIEs) project to get the soft loans from World Bank. After selecting the factories according to specific criteria of food processing, NIRAS Vietnam team has conducted detailed Energy Audit at **Song Con Sugarcane & Sugar JSC.**, and **Lam Son Sugarcane & Sugar JSC.**, from the 6<sup>th</sup> to the 11<sup>th</sup> of April 2016.*

The purpose of this program is to: (1) Assess the overall status of energy and fuel consumption, (2) Identify the potential areas for Energy Efficiency (EE) in factories, (3) Suggest Energy Efficiency (EE) and fuel saving measures to companies, (4) Calculate the economic and environmental effects of the suggested measures.

During the auditing program, both parties discussed and mutually agreed on some potential EE solutions, specifically:

1. **EE measures which can be applied at Song Con Sugarcane & Sugar JSC**, such as: Replace the current turbine used for electricity generation by a high performance one, Replace the steam turbine in pressing process by an electric one, Invest in high performance electric transformer, Prevent the steam and heat leaks.
2. **EE measures which can be applied at Lam Son Sugarcane & Sugar JSC** such as: Improve the efficiency of the sugar cane juice extraction process by installing additional machines: either 01 pressing machine or 01 mill machine placing after the current pressing-out system, Use the exhaust heat from the boiler to preheat the bagasse before entering the boiler, Renovate the combustor by increasing its height and restrict the fire grate (more expensive), Reduce the heat leaking to the environment by insulating some areas (lightly insulated or not yet insulated), Improve the use of waste heat to reduce the amount of steam used, and thus save bagasse for power generation, Enhance the operating capability for the technicians working in the cooking process.

Data related to the energy performance of equipment have been collected to calculate the potential for EE improvement and finish the energy audit report. As most of the Energy Efficiency (EE) measures listed above are related to technology, the expert team will continue working closely with the factories' technicians to ensure the accuracy of the calculations.

RCEE-NIRAS experts will make available draft Report of the energy audit to the company within planned schedule to discuss and mutually agree on the final report.



**“It was amazing, all my effort has been recognized by my company. I am proud of being a part of it” Minh Chau said**

As other employees, I wish to work in a professional, creative and proactive working environment and I am satisfied to be here, in NIRAS Vietnam.

I have had chances to work with several kinds of projects such as Clean Development Mechanism - CDM - and Energy Audit projects as a logistics / project manager, or working as an event coordinator in some specific projects such as Green Growth and Energy Savings and Efficiency projects. Although sometimes I have to work overtime and under high pressure to run the project timely but those make me more dynamic and obtain more knowledge about my company's project activities.

I do remember when I was elected the reward *Employee of The Year in 2013*. It was amazing, all my effort has been recognized by my company. I am proud of being a part of it.

I always think if you are patient enough and try your best with the highest responsibility, you will achieve the best experience, skills for your career in the future”.



*Pham Minh Chau,  
She has 3 years working for ABB Co.,  
Ltd and 5 years working for NIRAS  
Vietnam*

**“This was a great opportunity for a newbie like me working in a young, dynamic and friendly environment” Thanh Mai said**

I started working in NIRAS Vietnam about 9 years ago, just after my graduation. This was a great opportunity for a newbie like me working in a young, dynamic and friendly environment. Here, for the first time, I heard about Climate Change and its impacts. I was lucky to work for several Clean Development Mechanism (CDM) projects developed by RCEE and have learnt many things about renewable energy, energy efficiency, environment management.

I re-joined NIRAS Vietnam last year -2015, after 2 years of MBA and 5 years of experience working in business and project financing in chemical and infrastructure fields. I am very impressed by NIRAS Vietnam's growth but I do not find it strange. It's like coming back home after a long journey. I still feel the young, dynamic, friendly and also very professional environment. I know I have to work hard to catch-up with new knowledge such as Green Growth, new concept of Carbon Market Mechanism under Kyoto Protocol.

Recently, NIRAS Vietnam gives me chances to work with big projects such as Vietnam NAMA cement, Joint Crediting Mechanism, Energy efficiency in Food Processing Industry etc. Those are very challenging duties to me but thanks to these projects, I have acquired new knowledge quickly and practically. Working in NIRAS Vietnam, for me, means to accept challenges, accept criticisms in a positive way and keep learning continuously to improve myself. My target is just to keep that motivation and working spirit in the coming years”.



*Nguyen Thanh Mai  
NIRAS Vietnam's Energy Expert*

*With the slogan "We listen, we learn, we deliver", it's not only applied to our customers, it's also applied to all staffs of the company. Please share your thoughts about NIRAS Vietnam, please let us listen to your voice and together we can build the professional working environment, contribute to the development of our company's business.*

**ADM News**

**Staff Sharing**

## ADM News

### General information



Admin team still closely collaborates with other teams for administration support, financial issues and several company events and activities.

A fun and refreshment activity for staffs was organized in Spring with the sightseeing and worship trip to Kiep Bac temple and Ba Vang pagoda at Quang Ninh province. It is known as a tradition in Vietnam to visit temple and pagoda at the New Year time, when people will wish and pray for a prosperous year ahead, relax, and see beautiful scenery of interest at the same time.

Quarter 2 of the year 2016 was marked with successful organization of a 2-week International training course SEA 2015 in Hoi An which is an orders of NIRAS Sweden AB. We are now coordinating final details for the upcoming summer outing event which was excitingly waited for.

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*NIRAS Vietnam (RCEE-NIRAS) is part of the NIRAS Group. The main company is NIRAS A/S with over 1200 employees. NIRAS A/S is a large international consulting engineering company with main office in Denmark. The company was founded in 1956 and since then has expanded through natural growth and acquisition of other companies. NIRAS today consist of 28 Business Units, specialized in Environmental Services, Climate Change and Energy, Water Supply and Treatment Management, and one Business Unit NIRAS International Consulting, which focuses on consulting services in the development aid sector. NIRAS has offices in 15 countries around the world.*

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