

CPO Seminar on Environment-friendly Activities for UAE

A Customized Program-Overseas (CPO) seminar on Environment-friendly Activities was implemented for TAKREER, over a period of three days, from February 12 to 14, 2013 at the Sofitel Hotel in Abu Dhabi.

1. Overview

In Abu Dhabi, where environmental consideration and responses constitute an important policy, a CPO seminar aimed at the development of new environment-friendly projects was implemented at the request of TAKREER. In addition to employees from TAKREER, personnel from other companies affiliated with the ADNOC Group attended the seminar. They took part in an exercise in drafting a new environmental project for each of the ADNOC Group companies, and gained useful knowledge for promoting environmental initiatives under their respective leadership. Lectures covered a broad range of topics, with the cooperation and participation of lecturers from Japanese companies engaging in business in the Middle East, as well as from UAE University and Abu Dhabi University. The seminar was featured in TAKREER's in-house journal, and was a successful event that shed light on JCCP training activities in UAE.

2. Background

The CPO came to be implemented in response to a



Lecturers from Abu Dhabi University

request from TAKREER's personnel department for a seminar on the environment. Based on the company's annual training program, it requested the seminar to focus on environment-friendly activities. Upon confirming specific needs of the Environment Department at TAKREER, JCCP thus designed a program that would prepare participants for the development of new projects. The seminar also included an introduction of JCCP technical cooperation projects, an overview of environmental technologies and projects of Japanese companies, and R&D activities at UAE University. Furthermore, with additional support offered by the recently established Abu Dhabi University, the seminar was able to acquire the cooperation of the university's professors as lecturers and thereby offer a content-rich program.



Some of the participants and lecturers



Group discussion on the development of environment projects



Workshop on the development of new environment projects

3. Seminar Content

To respond to the expectations of diverse participants with different backgrounds and business duties, the focus of the seminar was placed on hands-on training in formulating a new, environment-friendly project, as a program that would respond to a wide range of needs.

Before participants with various backgrounds could each engage in hands-on training in the development of a new project, however, lectures needed to cover a wide range of technologies and commercial aspects as a prerequisite. Furthermore, case studies for project development needed to be prepared, and facilitation capacities were required to oversee everyone's projects concurrently. For these reasons, the seminar was implemented with the cooperation of experts in diverse fields, including oil companies, engineering companies, manufacturers and the academic world.

(1) Session 1: Corporate Environmental Activities

<Day 1 morning>

A lecture was first given by Mr. Kubota on a comprehensive history of environmental countermeasures in Japan, ranging from pollution control measures to the latest clean energy technologies, to explain the historical background to current countermeasures being implemented in Japan. Mr. Iwamatsu from Idemitsu Kosan Co., Ltd. then introduced examples of voluntary and advanced environment-friendly activities of Japanese oil companies. Following Mr. Iwamatsu, Arii introduced case examples of wastewater treatment and waste countermeasures in Japan and global warming countermeasures for a low-carbon society, from the standpoints of private business and government cooperation. Public-private cooperation was discussed

by combining the perspectives of environmental economics and business, as waste and global warming countermeasures require cooperation between the government and business world, as well as cooperation among industries. Mr. Yamazaki from Kawasaki Heavy Industries, Ltd. then lectured on the latest energy conservation technologies and introduced his company's environmental initiatives. The participants engaged in active Q&A in this session, and learned about the need to take a broad viewpoint in regard to corporate environmental activities.

(2) Session 2: Latest Environmental (Water, Air) Technologies <Day 1 afternoon>

At the request of TAKREER, four professors from Abu Dhabi University undertook part of the lectures in this session.

Prof. Abdel Mohsen Onsy Mohamed and Prof. Fares Howari lectured on Abu Dhabi University's education and research activities. They both expressed their wish to actively cooperate with JCCP's training program, and agreed to promote information exchanges hereafter.

Dr. Naser Tibi introduced an air-quality monitoring project being implemented with the Abu Dhabi Ministry of Environment and Water, and Dr. Alena Bartonova introduced the latest environmental monitoring technologies and case examples of advanced air-quality measures in Northern Europe. Such examples of government cooperation in each country supplemented the lectures given by Japanese lecturers and enriched the content of the session.

(3) Session 3: New Environmental Initiatives

<Day 2 morning>

Dr. Muftah El-Naas, a professor at UAE University



Presentation on a new project

in charge of JCCP technical cooperation projects, introduced wastewater treatment technologies and an actual JCCP project being implemented in UAE, and generated awareness of JCCP technical cooperation projects to the large audience from the ADNOC Group. Additionally, Mr. Ozaki from JGC Corporation lectured on advanced technologies related to air quality with a focus on combustion technology, and Mr. Yamazaki on the progress of flue-gas desulfurization technologies. Furthermore, Mr. Bassam Osman from Hitachi Plant Technologies, Ltd. gave a lecture on the latest wastewater treatment technologies, and Mr. Iwamatsu introduced VOC technologies. As these technologies are already being promoted in the Middle East market by Japanese companies, the lectures benefited the participants in acquiring the latest technical trends.

(4) Session 4: Practice in the Development of a Long-term Environment Project Plan

<Day 2 afternoon>

This session provided training in the development of an environment project plan from a long-term perspective.

Firstly, Mr. Osma from Hitachi Plant Technologies, Ltd. discussed case studies of wastewater treatment, water recycling and solar power projects in UAE with a focus on the process of project development.

Then, each participant drafted a new environment project that they expect would be needed in UAE from the long-term perspective, and presented their plan upon holding a group discussion. Various themes were examined from the standpoint of developing a project plan, including countermeasures for flare gas, waste and wastewater, and carbon management. The lecturers also participated in the training as facilitators and provided guidance to each group on the process of

project development. On the whole, the session was well received by the participants, as it allowed them to examine and prepare to develop projects that ADNOC and TAKREER would likely need to implement in the future.

(5) Session 5: Practice in the Development of a Short-term Environment Project Plan

<Day 3 morning>

This session provided training in the development of a practical project plan that could be implemented within a few years.

Mr. Ozaki introduced examples of projects that have utilized combustion equipment and heat exchangers, and discussed case studies. Particular emphasis was placed on maintaining a short-term, practical perspective, so that the participants could take prompt action after training. Group discussions yielded emergent and active insights, as the participants included members not only from TAKREER, but from other ADNOC Group companies as well. The presentations by the participants were also pragmatic and convincing, as they were based on the participants' conscious daily awareness of their respective issues, and proved to be highly meaningful.

4. Features of the Seminar

The seminar was a new attempt in terms of the following points.

(1) Shift of focus from knowledge to capacity-building

The seminar not only included lectures on the latest environmental technologies, but also allotted ample time for hands-on practice in building capacities for new project development and emphasized the importance of capacity-building. Furthermore, as the lectures focused on the process of formulating environment projects, the seminar as a whole was highly rated by the participants as giving them an opportunity to link their respective issues to the development of a new project.

(2) Expansion of the scope of participants

The participants were a group of approximately 20 members from a variety of fields, who have strong interest in the environment. They mainly represented TAKREER, but also represented other ADNOC Group companies in roughly equal numbers, since the theme of the seminar had general relevance to all companies.

By expanding the scope of participants, JCCP was able to effectively promote greater awareness of its activities among the ADNOC Group companies. An article about the seminar in TAKREER's in-house journal also contributed to increasing recognition of JCCP training activities in TAKREER.

(3) Cooperation by the Technical Cooperation Department

A UAE University professor introduced the technical cooperation project on wastewater that is being implementing at TAKREER with the cooperation of JCCP's Technical Cooperation Department, and contributed to widely promoting awareness of JCCP technical cooperation projects among participants from the ADNOC Group of companies.

(4) Training cooperation with universities in UAE

The seminar was fortunate to receive cooperation from UAE University and Abu Dhabi University. Professors from the universities undertook some of the lectures in the seminar for the participants from ADNOC, and contributed to enriching the content of the seminar. JCCP hopes to exchange information on the possibility of cooperation with universities in UAE in future training programs as well.

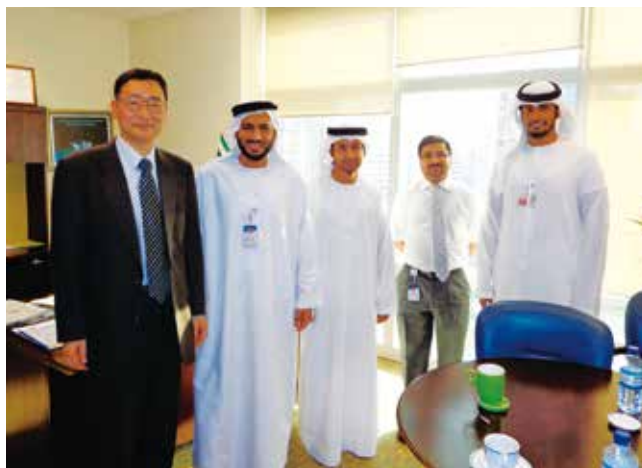
(5) Cooperation with local Japanese companies

Owing to the cooperation of Kawasaki Heavy Industries, Hitachi Plant Technologies, and other Japanese companies engaging in business in the Middle East, the seminar included lectures by resident members of Japanese companies. As market experts, they based their lectures on the latest market technologies and fully satisfied the needs of the participants.

5. Consultation with ADNOC

In a consultation with ADNOC's Environment Subcommittee regarding training activities, the ADNOC side expressed its wish to strengthen cooperation with JCCP, and made the following requests for cooperation.

(1) Given the success of the energy efficiency seminar held in Abu Dhabi last year, the ADNOC side



Meeting with members of the ADNOC Environment Subcommittee

requests JCCP's cooperation again this year in the seminar that is being planned by the ADNOC Group. The "effective utilization of water" is being considered as a possible seminar theme.

(2) For the first time, two members from the ADNOC Environment Subcommittee participated in a regular course on development of a new energy efficiency project" held in Japan. As the two members had high praise for the course, the Environment Subcommittee, which is composed of ADNOC executives, decided it would like to select and send members from the ADNOC Group to participate in JCCP regular courses (environmental management and energy management) in the future on a continuous basis.

The above-mentioned seminar to which JCCP cooperation was requested by ADNOC was scheduled for June 2013 under the theme of effective utilization of water resources. As the HSE Department that is mainly in charge of environmental and safety issues at ADNOC is a directly managed organization under ADNOC, JCCP hopes to continue deepening its cooperative relationship with the department.

JCCP also renewed its commitment to accurately assess needs in relevant departments in oil-producing countries, and to offer customized programs that fully satisfy those needs.

<by Tetsuo Arij, Training Dept.>