

Developing in cooperation with the global community

➤ Promoting international cooperation through technical support and environment protection activities

Cosmo Oil Group is exchanging personnel and culture as well as implementing technical cooperation and technology transfers with Middle Eastern countries where we have strong business connections and developing countries where future economic growth is anticipated, wishing to assist in the sustainable development of, and to build and maintain amicable relationships with these nations.

Overseas cooperation activities

In collaboration with government agencies and overseas corporations, we are promoting the implementation of various development and research projects and energy conservation model projects.

Our main activities are the implementation of technical assistance for various development and research projects and energy conservation model projects. Examples include training programs inside and outside of Japan and overseas studies funded by Japan Cooperation Center, Petroleum (JCCP), dispatch of experts on both long- or short-term basis to overseas projects implemented by the Japan International Cooperation Agency (JICA) and studies relating to improvement of the global environment improvement undertaken by the New Energy and Industrial Technology Development Organization (NEDO). Our company supports these activities by working with the relevant government agencies.



Workshop at Sakai refinery



Workshop in Yemen



Workshop at Chiba refinery



Laboratory training



➤ Studies of environmental technology and resource/environmental conservation technology at the refineries in the United Arab Emirates (UAE).

As an example of the technical assistance to Abu Dhabi National Oil Company (ADNOC), Cosmo Research Institute and Cosmo Engineering have jointly submitted practical and technical recommendations for resource/environmental protection measures to be taken at Ruwais Refinery operated by TAKREER (Abu Dhabi Oil Refining Company). In 2003, we conducted technical studies on the feasibility of eliminating flare gas emissions by reducing and/or recovering them. We also conducted technical studies aimed at finding a way to recover vapors released into the atmosphere while loading naphtha tankers.

➤ Technical studies for environmental protection at an oil refining facility in Iran

Following technical studies in relation to the recovery of vapor emitted into the atmosphere at the MTBE tanker track shipment base at Bandar Abbas Refinery, we have been working on specific studies for designing, building and operating a plant since FY 2003.

➤ Implementation of model project with Indonesian State Oil Company

Cosmo Oil and Cosmo Engineering are working on a "Model project to recover flare gas and hydrogen from refining" at the Indonesian state oil company's Balikpapan Refinery in East Kalimantan. This project is one of NEDO's "International model projects for improvement of energy efficiency", and has been designated as a priority project, the first such project in the oil refining industry. It is scheduled to be launched at the end of FY 2004. This model project is expected to contribute to the promotion of more efficient energy use as well as to international cooperation for preventing climate change.

➤ Refinery inspection and wastewater treatment FS (feasibility studies) program at Oman National Oil Company

In FY 2003, we conducted a technical study at the Oman National Oil Company's Mina al Fahal Refinery and finalized a proposal for wastewater and utility facilities. In FY 2004, we are formulating a total improvement plan utilizing our experiences and track record.

Activities in oil producing country Abu Dhabi

We are engaged in a wide range of programs going beyond business activities, such as exchange of personnel, technical assistance and cultural exchange.

Through our subsidiary Abu Dhabi Oil and the UAE-Japan Society, we have long been engaged in a wide range of programs going beyond business activities since 1960s. These programs include exchange of personnel, technical assistance and cultural exchange. Abu Dhabi Oil undertakes a core role in the Japanese community in Abu Dhabi, and promotes a wide range of exchange programs. They not only implement Japanese culture and student exchange programs but have also started interacting with local NGOs.

➤ Safety and stable operation at Abu Dhabi Oil

Cosmo Oil's subsidiary Abu Dhabi Oil operates with a staff of approximately 330 people on site including 140 employees with 18 different nationalities (including approx. 50 Japanese employees) and full-time contractors. They endeavor to maintain safe and stable operations through establishment of an emergency communication system and introduction of a HSE (health safety & environment) management system. As a part of marine pollution prevention measures, Abu Dhabi Oil is also preparing for emergency situations in collaboration with the Petroleum Association of Japan by storing oil leakage prevention materials and equipment such as oil fences and participating in an Emergency Mutual Support Committee sponsored by six companies operating in the Abu Dhabi sea area.

➤ Great appreciation by Abu Dhabi government

Abu Dhabi Oil's efforts for safety and environment are also highly appreciated by Abu Dhabi National Oil Company (ADNOC). Their "Sour gas injection project" won the highest award in FY 2000 at "ADNOC HSE AWARD" that has been held annually since FY 1998, their "Tank gas recovery project" won the second prize in the Environment Division in FY 2002, and their "Work environment improvement in process vessel" won the second prize in the Health Division in FY 2003.

➤ Promoting local afforestation by mangrove plantation, etc.

Abu Dhabi Oil has been actively promoting local afforestation by planting trees in their office site in the City of Abu Dhabi, man-

grove plantation on Mubarras Island, etc. Since 2003, we have also begun planting young cherry trees in our office site.



Mangrove forest on Mubarras Island



Office in Abu Dhabi



Cherry trees planted along fence in backyard

Exchange of personnel

We are committed not only to technology and know-how transfers but also to continuous development and exchange of personnel in order to promote crossborder understanding.

In FY 2003, we planned and held workshops both in Japan and overseas with financial support by JCCP, hosting long- and short-term internship students on 57 occasions and a total of 273 trainees participated in the workshops.

A broad range of studies, including environmental, energy conservation and refining technologies, and distribution, sales, personnel management and R&D, is covered in the workshops. To support the spread of integrated education, in February 2003 we sponsored

an international conference (Abu Dhabi (UAE): philosophy "education 2003"), whose aim was to discuss the issue of borderless education utilizing internet technology, attended by officers of our company.

Reference ➤ For details, please see p. 18 of Data Book.