

## Biodiversity Conservation

Biodiversity is the basis for human survival and development, the blood and foundation of the Earth's life community, and provides human beings with rich and diverse production and living necessities, a healthy and safe ecological environment and a unique landscape culture. Humans must respect nature and conform to its ways. We must conserve biodiversity to protect nature and live in harmony with it.

### Our commitments

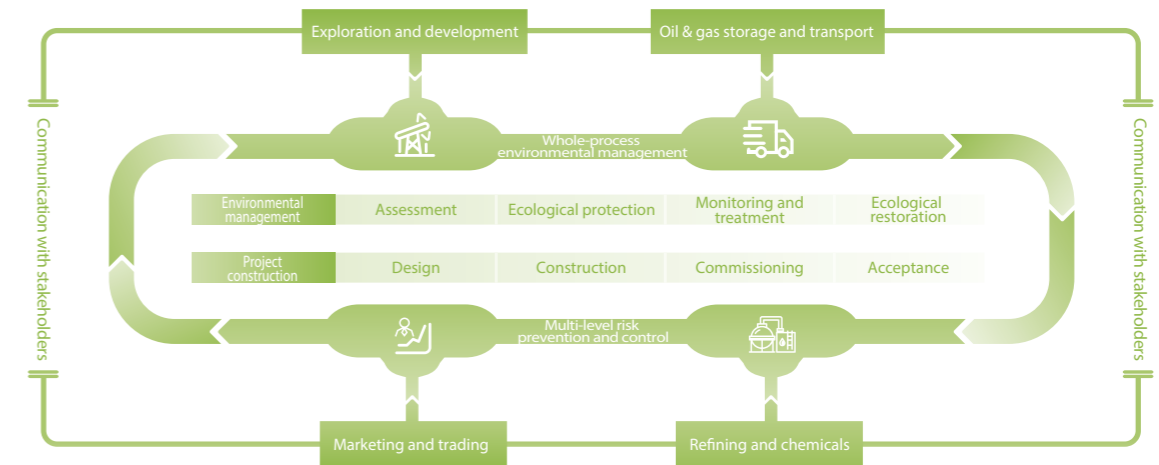
We actively respond to the UN's *2030 Agenda for Sustainable Development*, the *Convention on Biological Diversity* and other global initiatives and international conventions as well as the *Opinions on Further Strengthening Biodiversity Protection* issued by the Chinese government, strictly implement relevant international and domestic laws and regulations, and contribute to the accomplishment of the goal: "to protect, restore and promote sustainable use of ecosystems, and halt biodiversity loss".

### Our actions

We are devoted to reducing the potential influence on the environment and biodiversity during production and operation. We exercise management and control at the source and implement environmental management in the full life cycle throughout the industry chain.



Protecting demoiselle cranes in Changqing Oilfield



We

- Published the *Environment Protection Program*, exited from environmentally sensitive areas in an orderly manner, explored the establishment of biodiversity conservation demonstration areas, launched green fields building campaigns, and strived to contribute to safeguarding ecological space, protecting biodiversity and improving ecological functions.
- Endeavored to establish sound biodiversity conservation management systems and working systems, and incorporated biodiversity risk assessment into the full life cycle management of projects.
- Protected, restored and promoted sustainable use of land, made every effort to reduce the occupation of cultivated land, protect soil and water, restore vegetation, and strived to restore the ecological environment of the operating area.
- Actively promoted the biodiversity conservation concept, and organized employees to participate in publicity and education activities such as "World Wildlife Day" and "World Environment Day", to enhance employees' awareness of biodiversity conservation.



## Biodiversity Conservation

## Our practice

## Conservation of natural habitats for plants and animals

**Exiting from nature reserves in an orderly manner to restore the ecological environment**

Located in Panjin City, Liaoning Province, the Liaohekou National Nature Reserve is the largest wetland nature reserve in China. Nearly 100 species of migratory birds such as red-crowned cranes, gray cranes and swans migrate here from southern China to stay and feed. It is also a breeding ground for the black-billed gull, the world's rare water bird.

In order to protect the living environment of rare birds in wetlands, PetroChina Liaohe Oilfield Company formulated a work plan for the shutdown and withdrawal of production facilities and ecological restoration in Liaohekou National Nature Reserve, and carried out work for the shutdown and withdrawal of production facilities and wetland ecological restoration. It exited from all well stations in the core area, and all well sites were restored.

**Protecting the Amazon Rainforest**

CNPC's Andes project is located in the hinterland of the Amazon rainforest, a world-class environmental protection zone. The Company strictly abides by Ecuador's environmental protection laws and regulations, establishes and implements strict safety and environmental protection systems and procedures in accordance with the highest standards in the industry, keeps carrying out environmental impact assessments and implements environmental management

plans during oilfield construction and operation, regularly monitors water and gas discharge, noise and biological diversity, and protects the ecological environment of the rainforest. The Andean project has won many awards such as the Environmental Protection Award, the Enterprise Management Innovation Award from BIZZ and other internationally renowned institutions, and the "Outstanding Petroleum Technology Development Award" jointly granted by the Society of Petroleum Engineers (SPE) and the Ministry of Energy and Non-Renewable Natural Resources of Ecuador.



Green development of Liaohe Oilfield

**Protecting habitats for migratory birds in wetlands**

The Halfaya Oilfield Project in Iraq is close to the Hawizeh Wetland, the only wetland in Iraq protected by the *Convention on Wetlands* for being highly ecologically sensitive. The project strictly implements HSE standards, reduces the pollution caused by human activities to the wetlands, carries out waste and garbage recycling in the oil

area, advocates good environmental protection awareness and habits among contractors and local residents, and strives to protect the habitats of migratory birds in the wetlands. The project has won recognition and trust from the Iraqi government and partners, and its environmental management has been ISO14001 certified.

## Conservation of rare animal and plant species

**Protecting Populus euphratica in Tuha**

Santanghu Oil Region is located in Yiwu County, Xinjiang, and is home to nearly 80,000 *mu* of *Populus euphratica* forests. There are tens of thousands of *mu* of *Populus euphratica* forests around the Company's Tuha Oilfield operation area alone. In order to avoid the impact of exploration and

development activities on the growth of *Populus euphratica*, we take measures such as oil well displacement, oilfield road detours, and station streamlining to avoid *Populus euphratica* forests to the greatest extent possible. During the development of the entire oilfield, none of the local 10,000-*mu* *Populus euphratica* forests were damaged.

**Protecting the Arabian Oryx**

The Arabian oryx is native to the Middle East and the Arabian Peninsula, with corresponding sanctuaries established in Saudi Arabia, the United Arab Emirates and other countries. In the United Arab Emirates, we strictly abide by local environmental protection policies and relevant laws and

regulations on animal and plant protection. At the project construction site, we conduct surveys and assessments of the surrounding environment in advance, record the route, time and location of the Arabian oryx, and develop avoidance, mitigation and transfer plans. The life of the Arabian oryx has not been affected by the construction.