

A training Course of

MOST

The Ministry of Science and Technology
The People's Republic of China



China-Asean International Training Course on marine new energy

September 1-15, 2025

Nanning, Guangxi, China

**Sponsors : Department of International Cooperation of Ministry of Science and Technology, China
China Association of Marine Affairs**

Organizer: Fourth Institute of Oceanography, Ministry of Natural Resources, China



SPONSOR

- **Ministry of Science and Technology (MOST)**

As China's apex agency for S&T policy, MOST drives national R&D strategies and fosters global scientific collaboration, particularly with developing nations. Since 1989, it has organized over 300 international technical training programs, establishing China as a knowledge-sharing hub.

- **China Association of Marine Affairs (CAMA)**

A State Council-approved nonprofit under dual supervision of the Ministry of Natural Resources and Ministry of Civil Affairs, CAMA coordinates interdisciplinary research on critical marine challenges, bridging policymakers, academia, and industry stakeholders.

ORGANIZER

- **Fourth Institute of Oceanography, MNR (4IO)**

4IO also known as the **China-ASEAN Joint R&D Center for Marine Science and Technology** and **Guangxi Ocean Development Institute**, operates under a unified management structure with shared institutional resources. Co-established by the Ministry of Natural Resources (MNR) and the People's Government of Guangxi Zhuang Autonomous Region, and directly affiliated with MNR, 4IO is a national-level public-benefit marine research institution. Anchored in the Beibu Gulf and extending its influence across Southeast Asia, 4IO is dedicated to advancing marine ecological civilization, implementing the 21st Century Maritime Silk Road initiative, and driving the high-quality development of Guangxi's marine economy.

In recent years, 4IO has intensified innovative exploration of marine green energy development concepts, systematically establishing a comprehensive technological support framework spanning resource evaluation, ecological conservation, and industrial coordination

across the entire marine renewable energy chain. This has enabled the cultivation of specialized application capabilities in serving China's “Dual Carbon” strategy and advancing regional green energy transition initiatives. Core research areas include marine ecosystem dynamics, integrating technologies such as marine ecological environment monitoring and early-warning systems, marine big data analytics, blockchain applications, and smart coastal management solutions. Applied research covers integrated coastal governance, tropical-subtropical ecosystem restoration, sustainable marine resource utilization, and marine spatial planning. As a scientific advisor to MNR, 4IO provides technical support for policy implementation and regional marine economic growth. It also prioritizes international platforms for marine technology transfer, aiming to become a global leader in marine sustainability and a demonstration hub for blue economy innovation.

PROGRAM OBJECTIVES

The training course will build an exchange platform for the management and technical personnel of ASEAN countries engaged in marine new energy-related management, promote the cooperation of ASEAN countries in marine new energy demonstrative projects, explore marine new energy in response to the global climate and environmental change proposals, and enhance their voice in addressing global climate change. By offering training courses with advanced concepts and high quality lectures, it will provide the management level of marine new energy applications in ASEAN countries, promote bilateral and multilateral cooperation in the development and application of new marine energy, build a regional new energy cooperation platform and promote consensus on marine new energy cooperation among ASEAN countries.

PROGRAM DETAILS

- ✓ **Duration:** 1-15 September, 2025
- ✓ **Location:** Nanning, Guangxi, China
- ✓ **Format:** In-person workshops + field visits
- ✓ **Language:** English

TENTATIVE PROGRAM:

Date	Time	Items
Sept. 1	Whole day	Trainees arrival and reporting

Sept. 2	9:00-12:00	Opening Ceremony
	14:00-17:00	Communication and Thematic discussion
Sept. 3	9:00-12:00	Lecture topic: International Progress in Marine Energy
	14:00-17:00	Lecture topic: Progress of marine renewable energy in China
Sept. 4	9:00-12:00	Lecture topic: Development trends and challenges of new marine energy
	14:00-17:00	Field investigation
Sept. 5	9:00-12:00	Lecture topic: Prediction of future marine energy technology
	14:00-17:00	Lecture topic: Offshore photovoltaic regulation trends and development prospects
Sept. 6	9:00-17:00	Lecture topic: New technologies for the development and utilization of marine renewable energy
Sept. 7	9:00-12:00	Field investigation
	14:00-17:00	Lecture topic: Opportunities and Challenges for Offshore Wind Power Development
Sept. 8	9:00-17:00	Lecture topic: Floating Wind Turbine Development History, Future Trends and Key Technical Challenges
Sept. 9	9:00-12:00	Lecture topic: Wave Energy Technology Development and Prospects
	14:00-17:00	Thematic discussion
Sept. 10	9:30-11:30	Field investigation
Sept. 11	9:00-12:00	Lecture topic: Development and Utilization Technology and Prospects of Temperature Difference Energy
	14:00-17:00	Lecture topic: Scale development and utilization of ocean tidal energy
Sept. 12	9:30-11:30	Field investigation
Sept. 13	9:00-12:00	Lecture topic: Path Exploration of Marine Informatization Development
	14:00-17:00	Lecture topic: Chinese culture learning.
Sept. 14	9:00-12:00	Thematic discussion
	14:00-17:00	Graduation ceremony
Sept. 15	Whole day	Return journey

ELIGIBILITY CRITERIA

Applicants must meet the following requirements:

- Current researcher/officer in marine related fields, interested in learning about marine new energy development
- Fluent in English for technical discussions and report writing

- Physically fit to participate in field trip
- Exclusion: Not open to students or Chinese domestic institution staff

APPLICATION PROCESS

Online Registration

- Deadline: Complete the registration form via the link below by **23:59 (UTC+8), June 22, 2025: https://mostitp.cistc.gov.cn/student_login.aspx**

Note: The portal uses encrypted security protocols. If your browser displays a certificate warning, select click "Continue" to proceed.

- Required Documents:
 - ✓ Scanned copy of passport information page (valid for at least 6 months post-training)
 - ✓ Employment verification certificate (on institutional letterhead)
 - ✓ Medical certificate issued by a hospital

FINANCIAL ARRANGEMENTS

- ✓ Registration Fee: Fully waived
- ✓ Training Costs: Entirely covered by the host organization (Training materials and field visit expenses)
- ✓ Accommodation: Provided from 1 to 15 September 2025; Twin-share rooms with en-suite facilities; Includes daily breakfast buffet
- ✓ Meal Arrangements: Lunch and supper provided at training venue (Halal/Vegetarian options available); Daily coffee breaks with snacks
- ✓ Transportation: International airfare; Airport transfers on arrival/departure dates; Dedicated shuttle service for field visits
- ✓ Exclusions: Visa fees and personal expenses, *etc*

LOCATION OVERVIEW

NANNING, CHINA | SEPTEMBER 2025

- Nestled in southern China's Guangxi region, Nanning—the "Eternal Green City"—provides an optimal setting for the marine energy training program. As China's gateway to ASEAN, this dynamic metropolis harmonizes lush tropical landscapes with cutting-edge urban infrastructure, fostering an inspiring environment for learning and collaboration.
- Climate & Attire
 - ✓ September Weather: Warm temperatures (25°C–32°C/77°F–90°F) with moderate humidity

(65–75%) and occasional afternoon showers.

✓ Recommended Attire: Light, breathable clothing for daily sessions. A compact umbrella is advisable.

✓ Formal Dress Code: Traditional ethnic attire or business formal wear is required for the opening and closing ceremonies.

● Connectivity

Nanning Wuxu International Airport:

✓ Direct flights from 18 ASEAN cities and 45 major Chinese hubs.

✓ 35-minute drive to downtown, ensuring seamless transfers to training venues and accommodations.

CONTACT FOR CLARIFICATIONS

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