

Training Course on Water Ecosystems Protection and Restoration Technologies for Developing Countries

Name	Training Course on Water Ecosystems Protection and Restoration Technologies for Developing Countries		
Organizer	National Research Institute for Rural Electrification, MWR/Hangzhou Regional Center (Asia-Pacific) for Small Hydro Power (briefed as HRC)		
Time	2024-11-06 -- 2024-11-26	Language for Learning	English
Invited Countries	Developing Countries		
Number of Participants	25		
Requirements for the Participants	Age	Under 45 for officials at or under director's level; under 50 for officials at director general's level.	
	Health	Participants should be in good health, and should be free of diseases prohibited by Chinese laws and regulations from entering China, and free of other serious chronic diseases (such as severe hypertension, cardiovascular and cerebrovascular diseases, and diabetes), mental diseases or infectious diseases that may pose a significant public health risk. Participants shall not in the period of recovering from major surgery or acute illness, not be severely physically disabled, and not during a pregnancy period.	
	Language	Participants should be capable of listening, speaking, reading and writing in English that can meet the requirements of the seminar.	
	others	Family members or friends shall not follow.	
Host City	Hangzhou City, Zhejiang Province	Local Temperature	7°C-20°C
Cities to visit	Nanjing City, Jiangsu Province; Wuxi City, Jiangsu Province	Local Temperature	Nanjing City: 7°C-16°C Wuxi City: 9°C-17°C
Notes	1. Please prepare your valid passport and visa in advance; 2. If you are unable to depart on time due to special circumstances, or if your flight is delayed when connecting, please contact the program contact person to inform the latest flight status in order to arrange for pick-up; 3. In principle, personal changes to international tickets are not allowed; if you really need to do so, please contact the Business Office for ticket change procedures. If personal change is made to the air tickets without consent, the resulting costs and responsibilities will be borne by the individual. 4. Please check if you need to re-handle your baggage check-in when you transfer to another flight. After picking up your baggage, please wait patiently at the international arrival exit (or domestic arrival exit) and the staff will pick you up with the pick-up sign with the name of the organizer. If you wait for more than 15 minutes, you can communicate with the program contact person by phone; 5. If you need to register with the airline in case of lost checked luggage, please call the program contact person to confirm the luggage delivery address before filling out the registration form; 6. Please pay attention to the weather of the destinations and bring appropriate clothing; prepare light footwear to facilitate visits and investigations; attend the important activities of the Seminar in formal wear or national costume; 7. Please bring a small amount of common medicines as necessary.		
Contact of the Organizer	Contact Person(s)	Mr. Zhang Hua	

	Telephone	0086-571-56729103
	Cell	0086-13989482732
	Fax	0086-571-88062934
	E-mail	h Zhang@hrcshp.org
About the Organizer	<p>HRC, also called NRIRE, was founded with the joint sponsorships of Chinese government and UN organizations such as UNDP/UNIDO in 1981 in Hangzhou, China, specializing in R+D and training etc. in the fields of renewable energy development including SHP and rural electrification. HRC is also acting as Research Center on Rural Hydropower of Ministry of Water Resources, International Human Resources Training Base on Green Hydropower, MWR, and International Sci-tech Cooperation Base on Renewable Energy Rural Electrification of Zhejiang Province. Besides, HRC is also the implementing party for China-Pakistan Belt and Road Joint Laboratory on Small Hydropower Technology.</p> <p>Over 40 years' development, HRC has fostered a team of rich experience and diverse educational backgrounds, specializing in research and international cooperation in rural hydropower, electrification and other renewable energy, and the team members are comprised of professor-level engineers, doctors and masters in different energy fields. Besides, HRC possesses more than 10000m² space for office, training and production. Since 1983, HRC has been engaged in organizing technical training programs for other developing countries, and has so far completed in total 162 training programs, seminars or workshops, which have embraced over 5423 participants from 132 countries. HRC is awarded as "Family of SHP in the World" by the international community, and "Model of South-South Cooperation" by Ministry of Commerce of China. In Pakistan, Indonesia, Serbia and Ethiopia, HRC has established China-Pakistan Belt and Road Joint Laboratory on Small Hydropower Technology, China-Indonesia Joint Research Center on Rural Electrification based on Hydropower, China-Serbia Joint Research Center on Low Head Run-of-River Hydropower, and China-Africa Technology Transfer and Training Center on Clean Energy and Rural Electrification, working together with developing countries for joint research, project demonstration and technology transfer.</p> <p>For more details, please visit HRC website: http://www.hrcshp.org.</p>	
Seminar Content	<p>1. Lectures and Contents</p> <p>(1) Overview of China introduces China's basic national conditions and development situation, China's geography, history, politics, economy, culture and society and other aspects.</p> <p>(2) China's Water Management Philosophy and Thought on Ecological Civilization introduces essence of China's water management philosophy and thought on ecological civilization, along with their practices and applications in specific situation.</p> <p>(3) Practice and Exploration of Integrated River and Lake Management introduces successful cases and practical experiences of river and lake management in China, and covers strategies and implementation outcomes in areas such as watershed management, ecological restoration, flood control and disaster reduction, and water resource allocation.</p> <p>(4) River and Lake Connectivity and Water Ecological Restoration Governance presents advanced concepts and technological innovations in river and lake connectivity and water ecological restoration governance, and introduces the explorations on how to achieve the healthy and sustainable development of river and lake ecosystems through the construction of ecological corridors, restoration of natural hydrology, and improvement of water quality and</p>	

biodiversity.

(5) Policies and Practices of River and Lake Ecological Protection introduces the policy framework and implementation for river and lake ecological protection in China, and covers aspects such as laws, regulations, policies, management mechanisms, and public participation.

(6) China's River Chief System explains the background of the establishment, implementation system, operational effectiveness, and international influence of China's River Chief System and its management models.

(7) Principles and Practices of Water Environment Protection and Governance introduces the basic principles, key technologies, and domestic and international practical cases of water environment protection and governance, with an in-depth analysis of innovative methods and application effects in water pollution control, water ecological restoration, and water resource recycling.

(8) River and Lake Water Quality Purification Technologies presents the latest advances in river and lake water quality purification technologies, including the principles, application cases, and effectiveness evaluation of various physical, chemical, and biological methods.

(9) Restoration Technologies for Aquatic Plants in Rivers and Lakes introduces specific restoration technologies for aquatic plants in rivers and lakes, including the identification of plant species, their ecological functions, and their role in improving water quality.

(10) Design Technologies for Fish Passage Facilities in Rivers and Lakes presents the specific design technologies for fish passage facilities in rivers and lakes, including the ecological principles of fish-friendly passage design, the habits and characteristics of fish, and the selection of facility types such as fish ladders, fishways, and fish locks.

2. Study Tours

(1) It is proposed to visit Wuxi, Jiangsu Province for participation in the Taihu International Conference on Water Management. Participants will gain insights into China's achievements in flood and drought disaster prevention in the Taihu, the construction of the National Water Network, the conservation and efficient utilization of water resources, the restoration of river and lake ecosystems, and the development of digital twin water conservancy. Additionally, there will be opportunities to exchange and share relevant research findings and advanced technologies from both domestic and international perspectives.

(2) It is proposed to visit the Nanjing Research Institute of Hydrology and Water Conservation Automation in Nanjing, Jiangsu Province. Participants will learn about the latest achievements and developments in applied basic research and key engineering technologies in the fields of hydraulic and hydrological automation, water conservancy informatization, and smart water management.

3. Cultural Experience

It is proposed to arrange the fellow participants to learn basic daily-used Chinese language, experience tea culture and visit the West Lake to appreciate the profound traditional culture of China.