

HRC's Annual Report for 2023 and Work Plan for 2024

In 2023, Hangzhou Regional Center (Asia-Pacific) for Small Hydro Power (briefed as HRC) seriously studied and earnestly implemented Xi Jinping Thought on Socialism with Chinese Characteristics for the New Era and the spirit of the 20th CPC National Congress and actively put into practice the innovative approaches to water governance proposed by General Secretary Xi Jinping- “prioritizing water conservation, balancing water distribution in time and space, and taking a systematic approach to water management with the synergy of government and market”. Under the guidance and support of the Ministry of Water Resources, China International Development Cooperation Agency, the Ministry of Commerce and Nanjing Hydraulic Research Institute (NHRI), and guided by Xi Jinping Thought on Diplomacy, focusing on the Belt and Road Initiative and HRC’s “14th Five-Year Plan” for development, HRC has achieved fruitful results in all respects of foreign affairs by organizing online and offline training, implementing the international science and technology cooperative projects and enhancing the international exchange and communication, thus promoting the water resources and hydropower cooperation under the framework of the Belt and Road Initiative (BRI).

I. Smooth Implementation of Both Online and Offline Training Programs

Entrusted by China International Development Cooperation Agency



Leaders from AIBO under MOFCOM visited HRC

and the Ministry of Commerce, HRC successfully carried out 9 technical training programs (online and offline) for developing countries, and a total of 513 participants

attended those programs, mainly including government officials and technical experts in the fields of water conservancy, electric power, energy, and sustainable development from 68 countries in Asia,

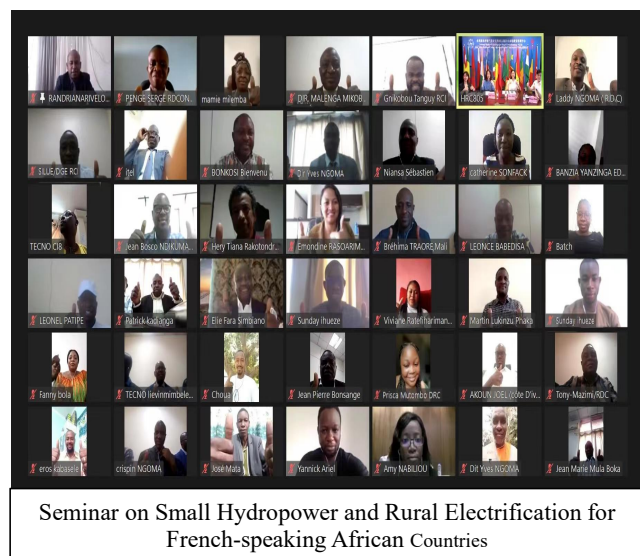
Africa and Latin America. In 2023, two offline training programs called *Seminar on Green and Circular Economy and Sustainable Development* and *Seminar on Water Resources*



Seminar on Green and Circular Economy and Sustainable Development

Development and Water Environment Treatment for Developing Countries were organized. A total of 51 participants from 20 countries came to China for the training. During the training, participants took part in the 18th World Water Congress in Beijing,

widely learned China's water governance concepts, practices and achievements, and promoted the international exchanges on topics



related to water resources and water environment. Meanwhile, online training programs still played a big role in 2023. Based on previous online training experience, HRC innovated teaching

methods, strengthened online interaction, improved the quality of

online training programs and successfully completed 7 online training programs. In addition, HRC organized a reunion of former seminar participants in



Cairo, Egypt to reconnect with our alumni. Through implementing various types of training programs, HRC has maintained close exchanges with other developing countries, continuously broadened the channels of communication, enhanced friendship and increased mutual trust, thus promoting international scientific, technical and economic cooperation.

List of Training Programs in 2023

No.	Name of Programs	Type of Training	Duration	Number of Participating Countries	Number of Participants
1	Seminar on Electrification Mode based on Clean Energy for Belt and Road Countries	online	16 th -29 th , March	7	36
2	Seminar on Power Management and Interconnection Technology for Belt and Road Countries	online	6 th -19 th , April	11	46
3	Seminar on Water Conservancy Technology for Developing Countries	online	17 th -30 th , April	7	28
4	Seminar on Safety Management of Small and Medium-sized Hydropower for Developing Countries	online	11 th -24 th , May	8	48
5	Seminar on Small Hydropower and Sustainable Development of Rural Communities in Developing Countries	online	May 31 st - June 13 th	30	134
6	Seminar on Small Hydropower and Rural Electrification for French-speaking African Countries	online	13 th -26 th , July	16	104
7	Seminar on Green and Circular Economy and Sustainable Development	offline	August 30 th - September 19 th	13	36
8	Seminar on Water Resources Development and Water Environment Treatment for Developing Countries	offline	6 th -19 th , September	7	15
9	Training Course on Flood Control and Early-warning and Forecasting and Hydrological Monitoring for Developing Countries	online	13 th -26 th , September	25	66

II. Active Attendance of International Seminars and Exchanges

In 2023, HRC actively organized and participated in various conferences, including the 18th World Water Congress and its side

event--Belt and Road Conference on Water Resources and Water Environment, Seminar on Application and Promotion of Small Hydropower Standards, Seminar on Centralized Operation Technology for Multiple Small Hydropower



Mr. Li Guoying, Minister of Water Resources of China, visited HRC exhibition booth and exchanged with us

Stations, and Reunion Meeting of Former Seminar Participants in Cairo, Egypt, etc. In addition, HRC participated in the organization



Belt and Road Conference on Water Resources and Water Environment

of the Belt and Road Dam Science Popularization Contest and the Belt and Road Training Course for Water Conservancy

Officials. HRC also participated in the 4th Mekong River Commission Summit Exhibition, the 3rd Lancang-Mekong Water Resources Forum, the 6th Cairo Water Week, the 3rd Belt and Road Forum for International Cooperation, and the 6th China-Arab States Expo. In addition, HRC participated in bilateral meetings between

the Deputy Minister of Water Resources and the President of the Arab Water Council, the Minister of Water Resources and Irrigation of Egypt, and the Minister of Agriculture, Water Resources and Fisheries of Tunisia. At the same time, HRC published articles and information on domestic and international platforms, such as the column of China Water Conservancy News and overseas social media platforms. Focusing on the key areas of high-quality development of water conservancy in the new stage, these international exchange activities have promoted in-depth technical exchanges on water resources management, water environment, intelligent water conservancy, water conservancy standards, dam safety, trans-boundary river cooperation, etc., and have shared the concepts and experiences of green, ecological, and sustainable development, focusing on supporting the implementation of the 2030 Agenda for Sustainable Development.

III. Coordinated Progress of International Scientific and Technological Cooperation

HRC has enhanced the cooperation with Pakistan on the projects of small hydropower development and continue to jointly construct the China-Pakistan “Belt and Road” Joint Laboratory on Small

Hydropower Technology with the Pakistan Council of Renewable



Project Meeting for China-Pakistan Joint Research Project on Small Hydropower

Energy Technologies (PCRET). As one of the first 14 “Belt and Road” Joint Laboratories, the China-Pakistan “Belt and Road” Joint

Laboratory on Small Hydropower Technology was listed as one of the Practical Cooperation Deliverables of the Third Belt and Road Forum for International Cooperation. HRC has participated in the

implementation of the UNICEF “Water and Sanitation” project, promoting the demonstration and application of off-grid photovoltaic technology,



Project Meeting for China-UNDP Partnership on Water Resource Management

the China-UNDP Partnership on Water Resource Management-A Research Study and Pilot Project on Key Technologies for the Sustainable Supply and Regulation of Water Resources in Reservoir Water-Sourced Areas for Ecological, Production, and Livelihood

Needs, and the Perez-Guerrero Trust Fund for South-South Cooperation project of the Demonstration and Application of Solar Pumping Irrigation Technology for the Countries of ASEAN; and accelerated the cooperation in the field of water resources through online meeting with the National Research Institute of Rural Engineering, Water and Forests (INRGREF) of Tunisia. HRC's efforts in international scientific and technological cooperation have effectively strengthened the technological communication of all sides, actively contributing to the high-quality spread of Chinese technologies and the high-quality development of the cooperation in water conservancy among the "Belt and Road" countries.

IV. Rapid Resumption of Mutual Visit

Throughout the year of 2023, HRC received the foreign guests from Pakistan and Nepal to conduct exchanges and field trips on the

"China-Pakistan Joint Research on Small Hydropower Technology" which is a "Strategic Scientific and Technological Innovation Cooperation" Key Project under the



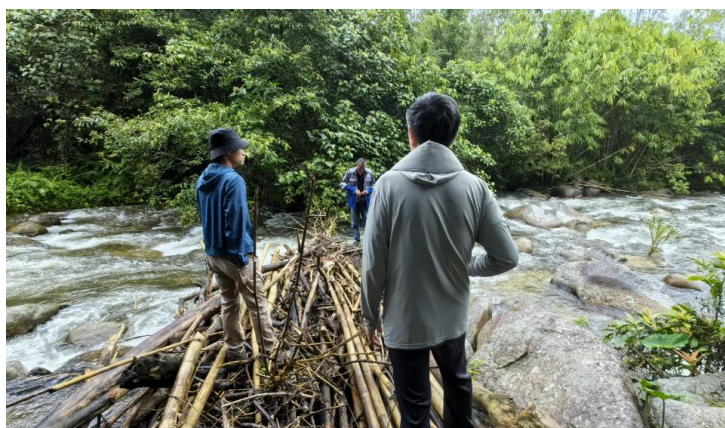
UNICEF "Water and Sanitation" Project Meeting in Cambodia

National Key R&D Program, the Seminar on Application and

Promotion of Small Hydropower Standards, and the Seminar on Centralized Operation Technology for Multiple Small Hydropower Stations. In 2023, HRC organized 10 people in 5 groups to go abroad on business to the Philippines, Cambodia, Laos, Vietnam and Egypt, to carry out acceptance and cooperation negotiation of solar photovoltaic projects, participate in the 4th Mekong River Commission Summit Exhibition, implement the UNICEF “Water and Sanitation” project, and attend the 6th Cairo Water Week and other related overseas missions.

V. Continuous Expansion of Overseas Market

Based on the international activities, HRC has followed up a series



Field Investigation for Hydropower Project in Malaysia

of key projects. HRC completed the bidding for three small hydropower equipment supply projects, provided technical consultation and solutions, equipment supply for hydropower stations in Pakistan, Rwanda and the Philippines; followed up the hydropower project in Malaysia; carried out the bidding of the monitoring system equipment of hydropower stations in Nepal; and supplied spare parts for hydropower stations in Turkey and Kenya.

VI. Work Plan for 2024

In 2024, guided by Xi Jinping Thought on Socialism with Chinese Characteristics for a New Era and Xi Jinping Thought on Diplomacy, HRC will continue to thoroughly study and implement the guiding principles of the 20th CPC National Congress, actively spread the innovative approaches to water governance proposed by General Secretary Xi Jinping - “prioritizing water conservation, balancing water distribution in time and space, and taking a systematic approach to water management with the synergy of government and market”. We will work on aspects water and energy related including international training programs, international exchanges and S&T international cooperation, promoting the high-quality development of HRC’s international cooperation work, and contributing to the joint development of the Belt and Road Initiative (BRI), and the implementation of Global Development Initiative (GDI) and the 2030 Agenda for Sustainable Development.

1. To organize 10 sessions of water and energy related training programs

(1) To optimize the training mechanism and improve its quality and efficiency. HRC shall improve the training workflow, and strengthen full-process coordination of training work, invite high-level experts and scholars from various fields to conduct lectures and exchanges,

intensify the innovation of training cooperation mechanisms, keep close ties with domestic and foreign training partners, establish training bases. HRC shall also improve the training follow-up mechanism and arrange regular visits to our former training participants.

(2) To prevent accidents for foreign trainees in China and make them feel at ease. HRC shall prepare emergency plans for unexpected events in training programs in China, and establish emergency response teams and a “green channel” for trainees seeking medical treatment. We shall also strictly organize training activities according to the workflow, and periodically conduct safety reminders.

2. To expand foreign exchanges and comprehensively coordinate international cooperation

(3) To give full play to the platform role of the China-Pakistan “Belt and Road” Joint Laboratory on Small Hydropower Technology and the International Cooperation Base for Renewable Energy and Rural Electrification of Zhejiang Province, continuously conduct mutual visits of experts, organize various international conferences, and etc. We shall also conduct research on cooperation demands, summarize cooperation experience, refine cooperation models, sign cooperation documents, and promote the incubation, transformation, and

application of cooperation results.

(4) To consolidate and enhance bilateral cooperation relationships solidify and expand multilateral cooperation with international organizations such as the United Nations Industrial Development Organization (UNIDO), the United Nations Development Programme (UNDP), and the ASEAN Centre for Energy (ACE) .

(5) To deepen cooperation in water resources, energy, and other fields. HRC shall focus on topics such as advanced and applicable technologies and solutions for small hydropower, applications of multi-energy hybrid power generation, solar pumping and irrigation, energy transformation, and climate change response.

(6) To actively apply for new bilateral and multilateral cooperation programs from the Chinese Ministry of Science and Technology, the Ministry of Foreign Affairs, and United Nations agencies, and vigorously implement underway international science and technology cooperation programs.

(7) To carry out the work related to the internationalization of small hydropower standards. HRC shall implement the training programs related to small hydropower technical standards, conduct surveys on overseas small hydropower technical standards, and publish and apply the Chinese standards.

3. To take multiple measures to cultivate a team of

inter-disciplinary foreign affairs talents

(8) To cultivate a team of inter-disciplinary talents for international cooperation. HRC shall regularly train internal staff, jointly hold international activities with foreign partners, actively dispatch staff to participate in various domestic and international conferences and competitions, strengthen team cohesion, and enhance their abilities.