

HRC's Annual Report on Foreign Affairs in 2022 and Work Plan for 2023

In 2022, Hangzhou Regional Center for Small Hydro Power (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. Guided by the Xi Jinping Thought on Diplomacy and under the leadership of the Ministry of Water Resources (MWR) of the People's Republic of China and Nanjing Hydraulic Research Institute (NHRI), HRC has achieved fruitful results in all respects of foreign affairs by organizing the on-line 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. Efficient implementation of China-aid Training

In order to enhance China-aid human resources development, deepen South-South Cooperation and promote exchange and cooperation among China and other developing countries in the fields of water resources management, small hydropower and other clean energies and rural electrification, etc., and strengthen mutual understanding and enhance

traditional friendships, HRC actively carried out China-aid training for other developing countries and successfully completed 15 China-aid training programs entrusted by the China International Development Cooperation Agency and the Ministry of Commerce of China, and a total of 754 participants from 43 countries participated. The number of training programs has reached a new high and the training topics are extended to the new fields of “rural electrification and poverty alleviation”, “dam and hydropower sustainable development”, “water safety management”, and “energy transition”, etc.



Participants of the training workshop and Chinese embassy abroad gave the thumbs up for the online training workshop

Training Programs Organized by HRC in 2022

Project title	Date	Participating Countries	Number of Participants	Language
Seminar on Electrification Mode based on Clean Energy for Belt and Road Countries	8 th - 21 st June	Bangladesh, Cambodia, Laos, Mongolia, Nepal, Thailand, Uzbekistan, Vietnam	52	English
Seminar on Water Resources Management and Development of Ecological Small Hydropower for Belt and Road Countries	9 th - 22 nd June	Bangladesh, Ethiopia, Ghana, Nepal, Pakistan, Rwanda, Peru	46	English
Seminar on Mitigating Climate Change with Clean Energy for Belt and Road Countries	6 th - 19 th July	Azerbaijan, Ethiopia, Rwanda, South Africa, Sri Lanka, Tajikistan, Zambia	36	English
Seminar on Small Hydropower and Green & Ecological Development for the Belt and Road Countries	7 th - 20 th July	Azerbaijan, Ethiopia, Nepal, Rwanda, Sri Lanka	34	English
Seminar on Green Energy and Sustainable Development of Urban Communities for Developing Countries	21 st July - 3 rd August	Democratic Republic of the Congo, Ethiopia, Iraq, Indonesia, Ghana, Kenya, Madagascar, Morocco, Nigeria, Nepal, Pakistan, Sultan, Sri Lanka, Tanzania, Chad, Uzbekistan, Venezuela, Zambia	83	English
Seminar on Water Resources Development and Water Treatment for Developing Countries	27 th July - 9 th August	Ethiopia, Indonesia, Mauritius, Nepal, Nigeria, Rwanda, Sri Lanka	49	English
Seminario sobre la Explotación y Desarrollo de las Energías Renovables para la República Dominicana	28 th July - 10 th August	Dominica	12	Spanish
Seminario sobre la Explotación y Utilización de los Recursos Hídricos y el Tratamiento del Medio Ambiente Acuático para El Salvador	11 th August - 9 th September	Salvador	50	Spanish

Project title	Date	Participating Countries	Number of Participants	Language
Seminar on Water Safety Management	14 th - 23 rd , September	Iraq, Mauritius, Surinam, Turkey, Venezuela, Uzbekistan	27	English
Seminar on Rural Electrification and Poverty Reduction for African Countries	15 th - 28 th September	Ethiopia, Kenya, Mauritius, Rwanda, South Africa, Zambia	32	English
Training Course on Dams and Hydropower Sustainable Development	12 th - 21 st October	Cambodia, Egypt, Iraq, Indonesia, Laos, Malaysia, Mauritius, Myanmar, the Philippines, Rwanda, Singapore, Vietnam, Sri Lanka	63	English
Training Course on Hydrological Monitoring and Flood Management for Developing Countries	26 th October - 8 th November	Algeria, Bangladesh, Cambodia, Egypt, Ghana, Indonesia, Iraq, Kiribati, Laos, Malaysia, Mongolia, Myanmar, Nepal, Pakistan, the Philippines, Rwanda	82	English
Seminar on Energy Transition Under South-South Cooperation	9 th - 29 th November	Ethiopia, Kenya, Mongolia, Mozambique, Tanzania, Uzbekistan	52	English
Seminar on Water Conservancy Technology for Developing Countries	21 st November - 11 th December	Bangladesh, Indonesia, Kenya, Myanmar, Nepal, Nigeria, Pakistan, Senegal	79	English
Seminar on Rural Energy and Environment for Developing Countries	1 st - 21 st December	Ethiopia, Nigeria, Nepal, Turkey, Sri Lanka, Mozambique, Rwanda, Pakistan, Zambia	57	English

Additionally, HRC has undertaken several other training projects: solar-powered water pumping technology for irrigation for Lancang-Mekong Countries and solar-wind complementary seawater desalination technology for Indonesia, training programs under the subject of *Chinese Language and Vocational Education on Construction Industry*; HRC also assisted the *Seminar on Green Economy and Environmental Protection for Officials of Developing Countries* as a co-organizer, completed the online video courses for a Nepalese small hydropower project.

Through carrying out online training programs HRC has kept close contact and exchanges with numerous developing countries to strengthen friendship and mutual trust, thus promoting international scientific, technical and economic cooperation.

II. Steady Advancement of Science and Technology Cooperation

Three national-level international science and technology cooperation projects of HRC have passed the performance evaluation: the National Key R&D Program of China called *China-Pakistan Joint Research and Development Center on Key Technologies of SHP and Rural Electrification*, the Inter-governmental Sci.-Tech Innovation Cooperation under the National Key R&D Program called *China-Serbia Joint*

Research on the Development Technology of Low-head Run-of-the-river Hydropower and China-ASEAN Maritime Cooperation Fund program called *Renewable Energy Assessment and Demonstration for Islands of ASEAN Countries*.

HRC has accomplished the Asian Cooperation Fund Project - *the Demonstration and Application of Solar-powered Water Lifting Irrigation Technology for Lancang-Mekong Countries (Laos)*. And, the the National Key R&D Project- *China-Pakistan Joint Research on SHP Technology* has been advanced in all aspects. HRC also assisted in carrying forward the Demonstration of Solar-Wind Complementary Powered Energy-Saving Seawater Desalination Project, the Capacity Building and Technology Sharing on Green Hydropower Development, as well as the Construction and Demonstration of Dam Safety Supporting System for ASEAN Countries. Besides, HRC keeps close contact with counterparts in Cambodia, Egypt, Indonesia, Laos, Cuba, Poland, Tajikistan, the Philippines, South Africa and etc., planning and applying for new international sci.-tech cooperative projects.



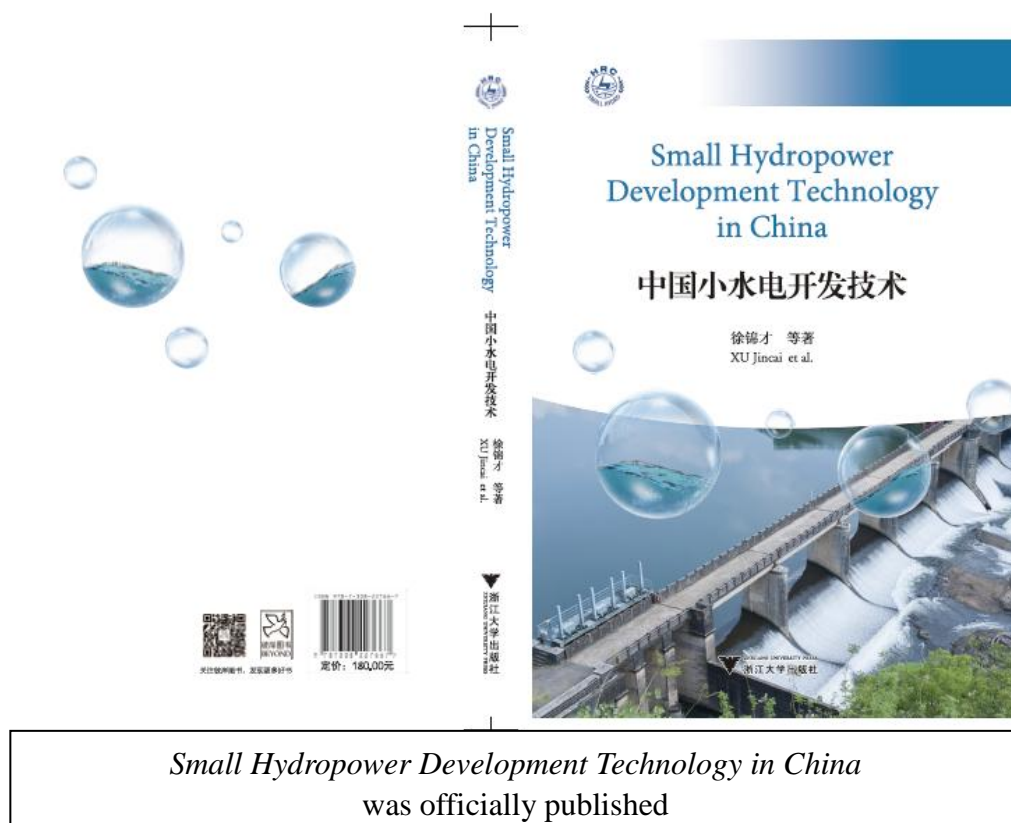
Demonstration project for solar-powered water lifting irrigation in Laos

III. Information Exchange Further Strengthened

In order to share green, ecological, low-carbon and sustainable development concepts and experiences, HRC has organized the China-Pakistan Seminar on SHP standard, the China-ASEAN Seminar on Dam Safety Management and the Multilingual International Speech Competition under the subject of *Popularizing China • Green Development*, and has taken part in the organization of *Forum on Hydropower Green and Low Carbon Development Popularization / Forum on SHP Quality Development in Yellow River Regions* and the *International Webinar on Green Small Hydropower Development*. HRC's project - Seminar on Small Hydropower Development for South Asian Countries was listed in the *Good Practices in South-South and Triangular Cooperation for Sustainable Development* issued by the United Nations. HRC also published an English book - *Small Hydropower Development Technology in China*. Besides, HRC compiled its Annual Report on Foreign Affairs, released important news on its website, provided content for the *Zhejiang Foreign Affairs Yearbook* and published the 35th issue of its English journal *SHP News*.

In 2022, recommended by HRC, 10 students from ASEAN Member Countries and African Countries were granted water resources related scholarships by the Chinese government for bachelor's, master's or

doctor's degrees in China.



Small Hydropower Development Technology in China
was officially published

IV. International Influence Continuously Promoted

HRC attached great importance to the sharing of China's water culture and made promotional videos to vividly display the development process and construction achievements of China's green small hydropower. During China-aid training, HRC incorporated Chinese language learning, Chinese culture experiencing, water culture experiencing and other activities in order to strengthen the appeal of Chinese culture and the friendly image of China and present the authentic China in a concrete and comprehensive way; Foreign media and websites such as the Nepal Weekly, the Website of Ministry of Science and Technology of Pakistan

both published the achievements of water related youth personnel training.



Media agencies in Pakistan and Nepal reported on the achievements of water related youth personnel training

Besides, HRC conducted spare parts supply for hydropower plants in Turkey and Kenya, assisted Nanjing Hydraulic Research Institute in providing smart facilities for dam monitoring to Vietnam and Indonesia, expanded the market for hydropower and solar-power equipment in Pakistan, solar-powered water pumping technology for irrigation and rooftop solar-power equipment in the Philippines, hybrid power generation technology and seawater desalination project market in Indonesia, and facilitated the hydropower cooperation projects between Chinese enterprises and Rwanda.

V. Work Plan for 2023

In the new year, HRC will continue to earnestly organize technical training workshops for developing countries in the field of water and energy, move forward with the implementation of *China-Pakistan Joint Research on SHP Technology*, and *the Demonstration and Application Project of Solar-powered Water Lifting Irrigation Technology for Lancang-Mekong Countries*, assist in the implementation of Asian Cooperation Fund projects regarding dam safety management and the solar-wind powered seawater desalination, actively prepare and apply for new international science and technology cooperation projects, and strengthen contact and collaboration with international organizations and HRC's other counterparts all over the world.