

## Seminar on Electrification Mode based on Clean Energy for Belt and Road Countries

Name	Seminar on Electrification Mode based on Clean Energy for Belt and Road Countries		
Organizer	National Research Institute for Rural Electrification, MWR/Hangzhou Regional Center (Asia-Pacific) for Small Hydro Power (briefed as HRC)		
Time	2024-05-15 -- 2024-05-28	Language for Learning	English
Invited Countries	Belt and Road 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	In good health with health certificate issued by the local public hospitals; without diseases with which entry to China is disallowed by China's laws and regulations; without severe chronic diseases such as serious high blood pressure, cardiovascular/cerebrovascular diseases and diabetes; without metal diseases or epidemic diseases that are likely to cause serious threat to public health; not in the process of recovering after a major operation or in the process of acute diseases; not seriously disabled or pregnant.	
	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	Spring, 10°C-20°C
Cities to visit	Huzhou City, Zhejiang Province Shanghai City	Local Temperature	Huzhou City, 10°C-20°C, Shanghai City, 10°C-20°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
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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 10000m<sup>2</sup> 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 158 training programs, seminars or workshops, which have embraced over 5000 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: <a href="http://www.hrcshp.org">http://www.hrcshp.org</a>.</p>	
	<p>1.Main Training Courses 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 Path to Modernization introduces the definition, characteristics, development process and achievements of Chinese modernization.</p> <p>(3)China's Clean Energy Development and Application introduces China's clean energy development status, development history, application and future development trend.</p> <p>(4)Small Hydropower Development and Rural Electrification Construction in China mainly includes the basic theory, technical methods and practice of small hydropower development, as well as the planning, design and implementation of rural electrification construction.</p> <p>(5)Small Hydropower Development Planning and Methods mainly involves the planning, design and operation management of small hydropower stations.</p> <p>(6)Pumped Storage Hydropower Technology mainly introduces the principle, design, operation and maintenance of pumped storage power stations.</p> <p>(7)Solar Photovoltaic Power Generation Technology and Application mainly introduces the basic principle of solar photovoltaic power generation, solar power generation system, solar power generation technology application and case analysis.</p> <p>(8)Wind Power Generation Technology and Application mainly introduces knowledge of wind</p>	

Seminar Content	<p>power generation principles, technologies and applications.</p> <p>(9)Research on Off-grid Rural Electrification Model mainly includes the basic concept, current situation, case analysis and development trend of off-grid rural electrification.</p> <p>(10)Investment and Financing of Clean Energy Projects and Overseas Practices introduces clean energy international cooperation and investment and financing policies and cases.</p> <p>2.Visit and Investigation</p> <p>(1)It is proposed to visit National Water Museum of China to lean about the the development history of Chinese water conservancy, China’s water resources management practices, water conservancy projects, water conservancy figures, water culture, etc.</p> <p>(2)It is proposed to visit hydropower station projects in Anji to learn practical knowledge on the development technology, operation and management of hydropower.</p> <p>(3)It is proposed to visit Shanghai Electric Group to learn about wind power generation technology and have deep discussions with the technical experts, and the participants will also visit the offshore wind farm to know about the technology and its application.</p> <p>(4)It is proposed to visit the International Center on Small Hydropower and participate in Hydropower for Today Forum to exchange views on hydropower related topics.</p> <p>(5)It is proposed to visit both rural and urban area in China to experience the development process of China’s rural and urban areas, so that the participants can have a more comprehensive and in-depth understanding of China’s development.</p> <p>3.Cultural Experience</p> <p>It is proposed to arrange the fellow participants to learn basic daily used Chinese language and visit those ancient style and historic streets to appreciate the profound traditional culture of China.</p> <p>4. Introduction of Main Lecturers</p> <p>(1)Ms. Fuzhen, Associate Professor, School of Foreign Language and Cultural Exchange, Zhejiang University, China Director of the Confucius Institute at the University of Western Australia from 2020 to 2021, responsible for the Chinese language teaching program of the Confucius Institute in Western Australia and related exchange activities between Chinese and Australian institutions and organizations.</p> <p>(2)Mr. Xu Jincai, Director General of International Center on Small Hydro Power, Ministry of Water Resources, national registered consulting engineer, Director of the Special Committee on Hydropower of Chinese Hydraulic Engineering Society. He has been engaged in the research and application of renewable energy and rural electrification for many years, and has completed over 20 projects of ministerial and provincial levels. He has given lecturers for participants from over 100 countries in more than 30 training programs.</p> <p>(3)Mr. Zhao Jianda, Chief Editor of National Research Institute for Rural Electrification / HRC. He is committed to the design and consultation of hydropower projects, research on the technology and policy of SHP development both at home and abroad, as well as the editing and reviewing of scientific journals.</p> <p>(4)Mr. Huang Jianping, Former Deputy Director of National Research Institute for Rural Electrification, Ministry of Water Resources / HRC. He has about 30 years’ experience on SHP and water conservation, and has provided consultation for more than 50 projects both at home and abroad. He has abundant experience in river basin planning, feasibility study, site selection, primary design, bidding, detailed construction design and site construction supervision.</p> <p>(5)Mr. Li Zhiwu, Professor-level Senior Engineer, National Research Institute for Rural Electrification, Ministry of Water Resources / HRC. He has been engaged in 22 key projects of provincial and national levels as the leader or the main participant. As the chief design engineer, he presided over the design of the first medium-sized pumped storage power station in China. He has rich experience in SHP technology export, economic &amp; trade cooperation.</p> <p>(6)Mr. Cui Zhenhua, Director of Research and Development, National Research Institute for Rural Electrification / HRC. His research focuses on the sustainable development of green small hydropower, and ecological restoration and management of hydropower.</p> <p>(7)Mr. Lin Ning, Director of Rural New Energy, National Research Institute for Rural Electrification, Ministry of Water Resources / HRC. He has been engaged in international SHP training, bilateral project cooperation &amp; management, SHP-oriented policy research, electro-mechanical equipment export etc. for over 20 years. And he has organized more than 30</p>
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training programs with the participation of thousands of officials and experts from over 100 countries. Besides, he has successfully signed and implemented more than 50 overseas hydropower projects in many developing countries such as Turkey, the Philippines and Kenya.

To facilitate the exchange with Chinese experts, please prepare the exchange materials related to the training topics in your country, such as: (a) the development status and existing problems in the field of clean energy development; (b) the cooperation basis with China, etc.