**Advanced Seminar of African Union on Clean Energy**

**Project Description**

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| Name | Advanced Seminar of African Union on Clean Energy | | | |
| Organizer | PowerChina Zhongnan Engineering Corporation Limited | | | |
| Holding Time | From June 24, 2021 to July 7, 2021 | | Language | English |
| Invited Countries | English-speaking countries of African Union | | Planned Number of participants | 20 |
| Goal of training | To enhance the understanding of African Union countries to the comprehensive capability of China in engineering construction, equipment manufacturing, operation and management of clean energy, and promote the exchange and cooperation between China and Africa in clean energy sectors. | | | |
| Requirements for the Participants | Professional Background | - Field or specialty: ministry of energy, bureau of electric power, new energy department, and other related departments of African countries;  - Position: government officials, experts and senior management personnel from research institutes and power development companies; | | |
| Age | No higher than the statutory retirement age of the trainee’s country | | |
| Health | Healthy and able to attend online training on time | | |
| Language ability | Fluent in English, including listening, speaking, reading, and writing | | |
| Others | With useable Internet connections to access our training platform and complete courses of the program | | |
| Introduction to Training Contents | 1. Main training courses and contents  An overview of China: introduce the current development of China’s politics, economy, society, culture, etc.  Introduction to COVID-19 prevention and control measures in China: mainly including the successful experience of China in preventing and controlling the coronavirus pandemic;  Development history and current situation of clean energy in China;  Mechanisms to develop, utilize and promote clean energy in China;  Planning, construction and operation of integrated energy system;  River hydropower planning;  Power system, types of hydropower plants, and regulation of reservoir flood;  Modernized technical upgrading and transformation of hydropower plants;  Design and construction of photovoltaic power plants and analysis of typical cases;  Introduction to wind power generation in China  Construction and management of wind power projects;  Biomass power generation technology;  Upgrading and transformation of Urban and rural power grids;  Development and application of distributed energy and micromesh technology;  2. Introduction to cloud visiting platform  Visit photovoltaic power plants via the cloud platform to experience China’s construction level in a visualized manner;  Visit famous hydropower, wind power and photovoltaic equipment manufacturers in China via the online platform to understand equipment manufacturing process;  3. Seminar / symposium:  The lecturers will answer questions raised by trainees and explore clean energy development schemes and measures with trainees in their respective countries.  4. Introduction to lecturers: (1) Li Yanguang: Senior Renewable Energy Engineer of PowerChina Zhongnan Engineering Corporation Limited with 21 years of industrial experience, Excellent Project Manager of China International Contractors Association in 2017, a Top 10 Outstanding Young Talent of PowerChina Group, an Outstanding CCP Member, with 6 years of teaching experience in foreign-aid training programs;  (2) Qi Jin: Senior Renewable Energy Planning Engineer of PowerChina Zhongnan Engineering Corporation Limited with 20 years of industrial experience and 10 years of teaching experience in foreign-aid training programs;  (3) Li Wei: Senior Electromechanical Engineer of PowerChina Zhongnan Engineering Corporation Limited with 21 years of industrial experience and 6 years of teaching experience in foreign-aid training programs; (4) Zhou Jingyu: Senior Photovoltaic Engineer of PowerChina Zhongnan Engineering Corporation Limited with 12 years of industrial experience, Chief Design Engineer of several photovoltaic projects in China and 4 years of teaching experience in foreign-aid training programs;  (5) Peng Huan: International Project Manager of PowerChina Zhongnan Engineering Corporation Limited, engaged in the business for 14 years, used to work in Bolivia, Thailand, Vietnam and Pakistan, Manager of International Wind Power Project, with 4 years of teaching experience in foreign-aid training programs;  (6) Zhang Dejian: Senior Environment Protection Engineer of PowerChina Zhongnan Engineering Corporation Limited with 19 years of industrial experience and 8 years of teaching experience in foreign-aid training programs;  (7) Zhao Xiaoyun: Senior Engineer of Power Gird Department at Hunan Power Design Institute, engaged in the business for 18 years, review expert of Hunan Electric Power Company, with 5 years of teaching experience in foreign-aid training programs;  5. Documents to be prepared by trainees  To facilitate the communication with Chinese experts, all trainees are expected to prepare the following documents needed in the seminar: ① Introduction to the specialty and the employer of the trainee; ② Current situation and existing issues of renewable energy; ③ Current progress of international cooperation with other countries and transnational organizations; ④ The foundation of cooperation with China, etc.  6. Completion test / assessment  To be carried out in the form of test or dissertation  7. See the attachment for details of the agenda | | | |
| Host City (Specific to County) | Changsha, Hunan | | (Cloud) Visiting City | Gansu |
| Notes | 1. Responsibilities and obligations: Trainees engaged in the program represent their respective governments, countries and people, and should thus be responsible for their own actions and performance, aibiding by Chinese laws, rules of the program, and filfill related obligations. 2. Discipline requirements: During the training, please strictly follow the schedule of the program, avoiding taking part in activies irrelevant to the program or quitting for no good reason. Trainees of the program shall not be involved in any administrative and/or crimical lawsuit or be nominited for other programs/trainings. Moreover, obligations required in previous training programs must haven been fulfilled. | | | |
| About the Organizer | **Power Construction Corporation of China (PowerChina for short)** is a comprehensive construction group that integrates investment, financing, planning, designing, project construction, equipment manufacturing, operation and management of hydropower projects and infrastructures. Its main businesses include building construction (such as survey, planning, design and contracting), development and operation of power, water (water affairs) and other resources, development and operation of real estate, manufacturing and leasing of related equipment. In addition, it is also assumed the duties of planning and review of clean energy and new energy projects in China, including hydropower, wind power, solar energy, etc. Power construction capability (planning, design, construction, etc.) and performance of the Group is second to none around the globe.  PowerChina Group has 6 regional headquarters around the globe and, by the end of 2020, has established branches and expanded business in 120 countries across the world, with the total contract amount of projects under construction exceeding hundreds of billions of US dollars. In 2020, the Group was ranked 157th among the top 500 enterprises in the world and 41st among the top 500 enterprises in China by *Fortune Magazine*. Moreover, it was also ranked 5th among the top 250 global contractors and 1st among the top 150 designers around the world by *The Engineering News-Record*.  Since 2009, PowerChina Group has been assumed the task of foreign-aid training by Ministry of Commerce. The program is organized by its subsidiary **PowerChina Zhongnan Engineering Corporation Limited** (hereinafter referred to as “**Zhongnan Corporation**”), with “Clean Energy, Water Conservancy, Hydropower, Flood Prevention and Disaster Alleviation” as the characteristics. By the end of 2020, 108 sessions of the trainings have been successfully organized, and a total of 2705 (including 32 officials of ministerial or higher levels) government officials and enterprise representatives from 86 countries, covering fields of energy, electric power, water conservancy, and construction, have participated in the program. | | | |
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