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**United States Energy Association
Power Africa: A U.S. Government-Led Partnership to Increase Sub-Saharan Africa’s Access to Energy
Request for Proposal – ARGeo-C7 Short Course on Reservoir Engineering and Management**

REQUEST FOR PROPOSAL – ARGeo-C7 Short Course on Reservoir Engineering and Management

Closing date of RFP: **Friday, August 31, 2018**

Implementing Organization: **United States Energy Association**

Funding Agency: **United States Agency for International Development**

The United States Energy Association (USEA) is inviting prospective organizations or individuals through this Request for Proposal (RFP) to submit proposals to design and present a two-day short course on Reservoir Engineering and Management for Geothermal Development in conjunction with the ARGeo-C7 Conference. This is an activity implemented by USEA, funded by the United States Agency for International Development (USAID) as part of the Power Africa Initiative.

Proposals are due by 17:00 hours EST of the closing date. Please forward your proposal in soft copy (PDF form) to Ms. Caity Smith, Senior Program Coordinator, at csmith@usea.org

As this is a USAID-funded program, the RFP follows USAID Procurement Regulations and Laws. All bidder details will be kept confidential.

I. INTRODUCTION

Headquartered in Washington, DC, USEA is an association of public and private energy-related organizations, corporations, and government agencies.

Through a cooperative agreement with the USAID Bureau for Economic Growth, Education and Environment (E3), USEA implements the Energy Utility Partnership Program (EUPP), available to all USAID-assisted countries and USAID Missions. EUPP supports the efforts in USAID-assisted developing countries to increase environmentally sustainable energy production and to improve the operational efficiency and increased financial viability of their utilities and related institutions, with the goal of increasing the access of these countries to environmentally sound energy services.

USEA conducts a number of activities under the EUPP mechanism for Power Africa - a U.S. Government-led partnership to increase Sub-Saharan Africa’s access to energy. Power Africa uses a wide range of U.S. government tools to support investment in Africa’s energy sector. From policy and regulatory best practices, to pre-feasibility studies and capacity building, to long-term financing, insurance, guarantees, credit enhancements and technical assistance, Power Africa provides coordinated support to help African partners expand their generation capacity and access.

The U.S.-East Africa Geothermal Partnership (EAGP) is a public-private partnership between the U.S. Agency for International Development (USAID) and the Geothermal Energy Association (GEA), implemented by the U.S. Energy Association (USEA). It was established in September 2012 to promote the development of geothermal energy projects

and increase private sector investments in geothermal in East Africa. It also encourages and facilitates the involvement of the U.S. geothermal industry in the region. With an estimated 15,000 MW of potential geothermal capacity in East Africa - a clean, reliable, baseload power solution – geothermal energy is critical to East Africa’s economic development especially as a base-load power source.

II. BACKGROUND

African Rift Geothermal Development Facility (ARGeo): The African Rift Geothermal Development Facility (ARGeo) Project is a Global Environment Facility (GEF) funded project being implemented by United Nations Environment Programme (UNEP). ARGeo was officially launched in November 2010 at the opening session of the Third African Rift Geothermal Conference (ARGeo-C3) in Djibouti.

The ARGeo project aims at supporting the development of the large untapped geothermal resource potential in the Eastern Africa region with the main objective of reducing the risks associated with the resource’s exploration. ARGeo also aims to reduce greenhouse gas (GHG) emissions by promoting the adoption of geothermal energy in the region.

ARGeo will also help demonstrate that the resource is reliable, cost effective and indigenous as compared to other sources of power in the Eastern Africa region. The utilization of the resource in agriculture and industry will also be promoted.

The ARGeo objective is to encourage both Private and Public developers to accelerate development of geothermal resources in East Africa. The GEF funded UNEP-ARGeo project has six member countries including Eritrea, Ethiopia, Kenya, Rwanda, Tanzania, and Uganda. Furthermore, under the framework of “Regional Networking and Capacity Building Components”, ARGeo targets an additional seven geothermal potential countries, including Burundi, Comoros, Djibouti, Democratic Republic of Congo, Malawi, Mozambique, and Zambia.

ARGeo-C7: The Government of the Republic of Rwanda will host the Seventh African Rift Geothermal Conference (ARGeo-C7) in partnership with UN Environment, Ministry for Foreign Affairs Iceland, Directorate for International Development Cooperation (MFA-ICEIDA), The Federal Institute for Geosciences and Natural Resources (BGR), Geothermal Training Programme of the United Nations University (UNU-GTP), African Union Commission (AUC) and the African Regional Branch (ARB) of the International Geothermal Association (IGA).

The conference will be held at the Kigali Convention Center in Kigali, Rwanda from 29 October – 4 November 2018.

The theme of ARGeo-C7 is: “*Geothermal: Solution to Africa Energy needs*”. The main objective of this conference is to promote regional cooperation, create an information exchange platform on exploration, development, investment and utilization of the geothermal resources in the region and elsewhere in the world. This international conference will bring together policy makers, technical experts as well as developers and financiers of international and regional delegates.

The conference will provide a platform to explore solutions how to: (i) mitigate the risks associated with resource exploration, (ii) attract private developers to fast track geothermal development, (iii) reduce lead times in developing geothermal projects, (iv) to leverage investment to stimulate the growth of industry, and (iv) to effectively develop, construct, and operate successful geothermal power plants.

The Conference will also provide opportunities for exhibitors to show their projects, products, equipment and services. It will also be an opportune time for business networking with lead personalities and institutions in the geothermal sector from Africa and the rest of the world.

III. SCOPE OF WORK

The purpose of this RFP is to solicit proposals from various candidate organizations, conduct a fair evaluation, and select the organization deemed most suitable to conduct the consultancy.

USEA plans to present a two-day short course in conjunction with the ARGeo-C7 on Geothermal Reservoir Engineering and Management. This course will be taught on October 29 – 30, 2018 in Kigali, Rwanda. Course topics should include:

- Basic overview of the principles of reservoir engineering and management;
- Fundamentals of reservoir properties and flow mechanisms;

- Analysis of well measurements;
- Estimation of well performance characteristics;
- Reservoir modeling, including different types of models and software to produce them;
- Reservoir stimulation;
- Well placement;
- Design and management of reinjection.

Following the presentation of the short course, the consultant(s) will attend and participate in the ARGeo-C7 conference October 31 – November 2, 2018.

IV. SCHEDULE

The selected consultant(s) will travel to Kigali, Rwanda to present the two-day short course the week of October 28, 2018. The instructors will then attend the ARGeo-C7 and depart from Rwanda to return to their home country on Saturday, November 3, 2018.

V. DELIVERABLES

The following deliverables are anticipated:

- Develop and deliver a two-day short course on geothermal reservoir engineering and management;
 - Presentation Materials
 - Daily Attendance Lists for all Participants
 - Pre/Post Survey or Exam to measure participant knowledge
- Final report to include the following:
 - Summary of the two-day training course, challenges encountered, and progress/knowledge gained by the participants;
 - Summary of meetings and communication with attendees at ARGeo-C7;
 - Summary of potential follow-on commercial opportunities developed by the Consultant while at ARGeo-C7;
 - Recommendations for additional training or assistance as appropriate.

USEA will be responsible for all logistical arrangements, including:

- All travel related logistics and costs for the consultant(s), in compliance with Fly America Act and the Federal Travel Regulations; this includes:
 - Roundtrip economy airfare;
 - Meals and Incidental Expenses stipend, calculated according to the Federal Travel Regulations, and using U.S. Department of State rates;
 - Visa costs;
 - Airport transfers;
 - Lodging;
 - Health and accident coverage;
 - ARGeo-C7 conference registration fees for trainer(s).
- Meeting venue

VI. PROPOSAL CONTENT

The proposal must contain the following:

- a) A cover letter to the proposal;
- b) A technical proposal (maximum 5 pages), including:
 - Proposed work plan and methodology including a proposed course outline;
 - Description of past experience with training programs;

- Summary of work to be performed by each consultant proposed for this project.
- c) A financial proposal, including:
- Detailed justification (i.e. line item budget) in US Dollars;
 - Labor, other direct costs, indirect costs, and level of effort for each employee proposed for this project.
- d) Short CVs/bio sketches of all proposed consultants;
- e) Company/organization Data Universal Numbering System (DUNS) number and confirmation of current status in the System of Award Management (SAM);

VII. EVALUATION CRITERIA AND CONTRACT MANAGEMENT/OVERSIGHT

Selection of an offer for contract award will be based on an evaluation of proposals against technical merit and budget justification. Proposals shall first be evaluated from a technical standpoint based on the consulting proposal, including prior relevant experience, without regard to proposed budget justification. For those proposals determined to be technically acceptable, budget justification will be evaluated.

Bidders are required to have a Data Universal Numbering System (DUNS) number and maintain a current registration in the System of Award Management (SAM).

A subcontract agreement between USEA and the Consultant shall be subject to all USAID Special Terms and Conditions, including all mandatory FAR Flow-Down clauses, where applicable, and the provisions included in 2CFR200 and 2CFR700. All bidders are strongly encouraged to review these provisions prior to submitting a proposal.

- Standard Provisions for U.S. Nongovernmental Organizations:
<https://www.usaid.gov/sites/default/files/documents/1868/303maa.pdf>
- 2CFR200: <https://www.gpo.gov/fdsys/pkg/CFR-2014-title2-vol1/pdf/CFR-2014-title2-vol1-part200.pdf>
- 2CFR700: <https://www.gpo.gov/fdsys/pkg/CFR-2015-title2-vol1/pdf/CFR-2015-title2-vol1-part700.pdf>

Subcontract agreement management, oversight and payment will be carried out by USEA.

VIII. QUESTIONS AND CLARIFICATIONS

For all questions and clarification requests please contact Ms. Caity Smith, Senior Program Coordinator, at csmith@usea.org.

END OF RFP