REQUEST FOR PROPOSALS  
CUC-RFP-13-018  

RENEWABLE ENERGY INTEGRATION STUDY  

The Office of the Executive Director for the Commonwealth Utilities Corporation (CUC) is soliciting competitive sealed proposals from qualified firms for a Renewable Energy Integration Study for Saipan, Commonwealth of the Northern Mariana Islands. The focus of this Renewable Energy Integration Study will be:

- To determine how much variable renewable energy (Solar PV and Wind) can CUC economically integrate into its grid?  
- To investigate the operational impact - at penetration levels ranging from 10% to 50% - for Solar PV and Wind generation.

A Power System Analysis software with a Renewable Energy module will be purchased and installed on CUC computers for grid studies and operations. The contractor will recommend and install the software on computers provided by CUC. The contractor will model CUC’s grid and carry out related Load-flow, Short Circuit, Stability (dynamic and transient), Transient and Protection analysis, as well as simulations.

The study should address these questions:

1. What is the impact of up to 50% variable renewable energy penetration and how can this be accommodated?
2. How much Solar PV or Wind generation can be connected on any of CUC’s 13.8KV distribution feeders? Can geographic diversity or distributed generation help mitigate variability?
3. How spinning reserve should be modified to account for the variability in Wind and Solar PV generation. What is the additional cost of spinning due to this variability?
4. What is the increased O&M cost of diesel generators due to increased ramping and cycling?
5. What are the Short Circuit levels and currents at interconnection points on the grid?
6. What are the supply quality problems; including voltage stability /collapse and frequency fluctuations?

The RFP package may be obtained upon receipt of a non-refundable deposit from the CUC Treasury Section, by cash, check or credit card in the amount of $100.00 for one set from the CUC Procurement and Supply Office, 3rd Floor, Room 3, Joeten Dandan Commercial Building, Saipan, between 7:30 a.m. to 11:30 a.m. and 12:30 p.m. to 4:00 p.m., Monday through Friday, except on government observed holidays.

A Pre-Proposal Conference will be held on April 30, 2013 at 10:00 AM (ChST) at the CUC Main Conference Room, 3rd Floor, Room 15, Joeten Dandan Commercial Building, Dandan, Saipan.

One (1) original and Five (5) copies must be submitted in a sealed envelope marked “CUC-RFP-13-018, Renewable Energy Integration Study”, to the CUC Procurement & Supply Office, 3rd Floor, Room No. 3, Joeten Dandan Commercial Building, P.O. Box 501220, Saipan, MP 96950, no later than May 20, 2013 at 10:00 AM (ChST). Late submissions and conditional offers will not be considered.

All Offerors are advised that CUC assumes no responsibility in any act of omission on the part of the Offeror due to lack of information or understanding of the proposal requirements in the course of Contractor’s preparation of a proposal or supply under the contract.

Discussions may be conducted with responsible proposers for the purpose of clarification and to ensure full understanding of, and responsiveness to solicitation requirements. Proposers shall be accorded fair and equal treatment. There shall be no disclosure of any information derived from proposals submitted by competing proposers.

This Request for Proposal does not commit CUC to the award of a contract or contracts, nor to pay any cost incurred in the preparation and submission of proposals in anticipation of a contract. This bid and the ensuing contract shall be executed pursuant to the CUC Procurement Regulations. The contractor shall be required to comply with all CNMI and applicable Federal Laws.

All questions or request for clarification must be submitted in writing no later than May 10, 2013 at 10:00 AM (ChST) to Manny B. Sablan, Jr., CUC Purchasing Officer, via email address manny.sablan@cucgov.org with a copy to Wallon Young, CUC Deputy Director for Power via email wallon59@yahoo.com and Charles Warren, CUC Chief Financial Officer via email charles_warren@cucgov.org.

CUC reserves the right to reject any or all proposals for any reason and to waive any defects in said proposal, if in its sole opinion, to do so would be in the best interest of CUC. All proposals shall become the property of CUC.

ALAN W. FLETCHER  
Acting Executive Director