

CALL FOR EXPRESSIONS OF INTEREST
FOR
NORTHERN POWER UTILITY ENERGY EFFICIENCY STUDY

Expressions of interest are called from Allied Members to conduct an energy efficiency study of the ten (10) power utilities of the Pacific Island located US Affiliated States. This comprises the following power utilities:

Chuuk State Public Utilities Corporation (CSPUC)
Pohnpei Utility Corporation (PUC)
Kosrae Utility Authority (KUA)
Marshalls Energy Company (MEC)
Kwajalein Joint Utility Corporation
American Samoa Power Authority (ASPA)
Guam Power Authority (GPA)
Commonwealth Utility Corporation (CUC)
Yap State Public Service Corporation (YSPSC)
Palau Public Utility Corporation (PPUC)

The outcomes of this study, to be conducted early in 2008 are:

1. Collection of all the necessary power system data from each of the power utilities
2. Provision of an Electrical Data Handbook for each utility, which will provide the impedances of all high voltage equipment in that utility.
3. Conduct load-flow analyses of each of the power utilities utilizing the electrical data collected from the utilities in outcome 1. above. Quantify the power system losses in each of the generation, transmission, sub-transmission and distribution sections of each power utility. It is proposed to use the ESA company supplied EasyPower software (from the USA) to carry out the loadflow and fault level studies.
4. Preparation of a report containing a prioritized program for reducing these power system losses in each utility. This report should also include cost/benefit analyses where for example some distribution transformers which are found to have high losses (either no-load or full-load losses) and would be expected to be replaced.

The essential requirements of the successful consultant are as follows:

1. Professional electrical engineer
2. Proven experience in power utilities
3. Good knowledge of the Northern region and US based power system standards

4. Very good ability in both oral and written English
5. In the absence of the data being readily available from the utility, the consultant must have the skills necessary to be able to measure these electrical characteristics
6. Experience with carrying out load flow studies to evaluate system losses and fault calculations.

The Expressions of Interest need to provide the following information:

1. That the consultant satisfies the essential requirements above
2. Estimated time to carry out the project, including an estimate of the time taken in each utility to collect the data.
3. Provision of an estimate of the cost of conducting the study. This is to include a daily rate, based on an 8 hour working day. Airfares and a suitable per diem will be organized by the PPA Secretariat.

Expressions of Interest must be submitted to the PPA Secretariat by no later than Close of Business 28 September, 2007 (Fiji time)