

Project Title	Consulting Services for Upgrading the SCADA/EMS of La Unidad de Transacciones with a Two-Control Center Mirrored Architecture (<i>Servicio de Consultoría Técnica para la Revisión y Análisis de Especificaciones Técnicas y Acompañamiento en el Proceso de Adquisición de Dos Sistemas SCADA/EMS para los Centros de Control de Energía de la Unidad de Transacciones</i>)
Contracting Agency	Unidad de Transacciones (“La UT”), El Salvador
Project Organization	Prime Contractor: Energy Consulting International, Inc.
Summary	The upgrading of the existing Control Center of “La UT” aims at upgrading the current SCADA/EMS and replacing it with a two-control center mirrored architecture predicated on the current state of the art and using high performance hardware and software.
Background	<p><i>La Unidad de Transacciones</i> (“La UT”) is the System and Market Operator in El Salvador. As such, it is responsible for the: real-time operation of the National Interconnected System and of the International Interconnections; scheduling and control of the thermal, hydro, wind, solar and geothermal generation; and the operating reliability and continuity of system operations in El Salvador and in the context of the Regional Electricity Market in Central America.</p> <p>“La UT” is currently preparing a bidding process that aims at replacing the current SCADA/EMS with a two-control center mirrored architecture predicated on the current state of the art and using high performance hardware and software. For this purpose, “La UT” selected Energy Consulting International (ECI) Inc., a New York based electric power consulting firm specializing in information technologies as they relate to the planning, operation and management of electrical power systems, to provide technical assistance in conjunction with this important undertaking. The consulting work will be performed by Dr. Savu C. Savulescu.</p>
Objectives	<p>The stated objective for the consulting services to be provided by ECI encompass:</p> <ul style="list-style-type: none">▪ Conduct a visit in San Salvador to inspect the existing SCADA/EMS facilities of "La UT" and meet with the UT Project Team for the purpose of assessing current and future requirements and identifying new features to be recommended▪ Based on the results of this on-site visit, and drawing from the knowledge and experience of the Consultant with state-of-the-art SCADA/EMS technologies, review, improve and complement the existing Terms of Reference for the Acquisition of two SCADA/EM Systems for the Energy Control Centers of the Transactions Unit that have been prepared by UT Project Team

- Conduct a presentation of the Final ToR to the Upper Management of “La UT”
- After "La UT" selected the best offer for the "Acquisition of two SCADA / EMS systems for the power control centers of the Unit of Transactions" tender, prepare, in coordination with "La UT" and the selected Bidder, the SOW document
- Assist "La UT" during the SOW negotiations with the selected Bidder

Scope of Work

The consulting services contemplated under this assignment encompass the:

- Preliminary review of the Terms of Reference developed by “La UT”
- Project kick-off meeting in Sal Salvador, including the
 - ECI’s proprietary workshop *Obsolescence in Utility information Systems. What it is and how to avoid it*
 - ECI’s presentation *Two-Control Center Mirrored Architecture: Guiding Principles and Conceptual Design*
- Detailed review of the Terms of Reference developed by “La UT” and preparation of edits and additional text to be included in the final bidding document
- Assistance with the preparation of the Statement of Work
- Assistance during the Statement of Work negotiations
- Prepare the final report

Period of Performance

April 2019 – February 2020