

# Projects Conducted by Savu C. Savulescu in Capacity of Project Manager and/or Technical Lead Prior to the Year 2000

SCADA/EMS REPLACEMENT AT EMPRESA NACIONAL DE ENERGÍA ELÉCTRICA, TEGUCIGALPA, HONDURAS (SEVERAL ASSIGNMENTS BETWEEN 1999 AND 2002)	2
SCADA/EMS, RTU, SUBSTATION AUTOMATION SYSTEMS AND COMMUNICATIONS PROJECT FOR THE INDEPENDENT SYSTEM OPERATOR OF BOSNIA AND HERZEGOVINA	2
TELEINFORMATION SYSTEM FOR SOUTHEASTERN EUROPE (1999-2001) AND ANCILLARY SERVICES MARKET IN SOUTHEASTERN EUROPE (2001-2002)	2
MARKET SYSTEM DESIGN FOR CENTRO NACIONAL DE CONTROL DE ENERGÍA (PROYECTO DE COMPLEMENTACIÓN PARA EL CENACE), ECUADOR	3
YEAR 2000 AUDITS AND TESTING	3
BID EVALUATION FOR THE SCADA/EMS PROJECT OF ENDESA, CHILE	3
ASSESSMENT OF THE EXISTING SCADA/AGC SYSTEM AND MIGRATION TO NEW SCADA/EMS FACILITIES AT INDE-ETCEE AS REQUIRED BY THE OPEN ENERGY MARKET IN GUATEMALA	4
GENERATION DISPATCH CENTER, HYDRO-PLANT AUTOMATION SYSTEMS AND TELECOMMUNICATION FACILITIES FOR THE EMPRESA DE GENERACIÓN DE ENERGÍA ELÉCTRICA, GUATEMALA	4
SCADA/EMS AND TELECOMMUNICATIONS SYSTEM OF POWER COMPANY NO. 3, DA NANG, VIETNAM	4
SCADA/EMS OF UTE, URUGUAY	5
BID EVALUATION METHODOLOGY FOR THE SCADA/EMS OF OPSIS, VENEZUELA	5
PROJECT IMPLEMENTATION FOR THE SCADA/EMS OF ISA, COLOMBIA	5
SCADA/EMS OF POWERGRID OF INDIA	6
SCADA/AGC SYSTEM OF INSTITUTO NACIONAL DE ELECTRICIDAD, GUATEMALA	6
SCADA/EMS FEASIBILITY STUDY FOR RENEL, ROMANIA	6
INFORMATION SYSTEM AT THE POWER SYSTEM OPERATIONS DIRECTION (DOSNI) OF THE INSTITUTO NACIONAL DE ELECTRIFICACIÓN, QUITO, ECUADOR	7
COST-BENEFIT ANALYSIS STUDY FOR THE SCADA/EMS REPLACEMENT AT INSTITUTO COSTARRICENSE DE ELECTRICIDAD, SAN JOSE, COSTA RICA	7

## **SCADA/EMS Replacement at Empresa Nacional de Energía Eléctrica, Tegucigalpa, Honduras (several assignments between 1999 and 2002)**

**Contracting Agency** Empresa Nacional de Energía Eléctrica (ENEE), Tegucigalpa, Honduras

**Project Organization** Prime Contractor: Savu C. Savulescu as an Independent Consultant or on behalf of SCS Computer Consulting

**Summary** This was a series of consulting assignments aimed at: assessing the existing SCADA system; identifying requirements; performing the cost-benefit analysis; developing technical specifications and bidding documents; and assisting ENEE with the bid evaluation and vendor selection

**Period of Performance** 1999-2002

## **SCADA/EMS, RTU, Substation Automation Systems and Communications Project for the Independent System Operator of Bosnia and Herzegovina**

**Contracting Agency** Independent System Operator of Bosnia and Herzegovina (ZEKC) with funding from USAID TDA

**Project Organization** Prime Contractor: Electrotek Concepts, Inc. (Electrotek). Savu C. Savulescu, as an employee of Electrotek, was Deputy Project Manager with full responsibility for the SCADA/EMS component of the project

**Summary** Assessment of the current situation, development of the conceptual information architecture, cost-benefit analysis, technical specifications and preparation of the bid evaluation methodology

**Period of Performance** 1999-2002

## **Teleinformation System for Southeastern Europe (1999-2001) and Ancillary Services Market in Southeastern Europe (2001-2002)**

**Contracting Agency** USAID TDA

**Project Organization** Prime Contractor: Electrotek Concepts, Inc. (Electrotek). Savu C. Savulescu, as an employee of Electrotek, was Task Manager for the SCADA/EMS and, respectively, Security Assessment activities

**Summary** These two projects were part of the South European Cooperation Initiative (SECI) funded by USAID in conjunction with the State Department

**Period of Performance** 1999-2001 and 2001-2002

## Market System Design for Centro Nacional de Control de Energía (Proyecto de Complementación para el CENACE), Ecuador

<b>Contracting Agency</b>	Centro Nacional de Control de Energía (CENACE)
<b>Project Organization</b>	Prime Contractor: SADEYN, Quito, Ecuador. Savu C. Savulescu worked as an Independent Consultant responsible for the SCADA/EMS and Market System component of the project
<b>Summary</b>	Development of functional requirements and technical specifications for the real-time operation of the electric system of Ecuador
<b>Period of Performance</b>	2000

## Year 2000 Audits and Testing

<b>Contracting Agency</b>	Independent System Operator of Bosnia and Herzegovina (ZEKC) with funding from USAID TDA
<b>Project Organization</b>	Prime Contractor: Savu C. Savulescu as an Independent Consultant on behalf of Electrotek Concepts, Inc.
<b>Summary</b>	ETESA, Panama, and INDE, Guatemala, retained Dr. Savulescu as an Independent Consultant to review the ability of their SCADA/AGC systems (Ilex, in Panama, and ABB Network Management, in Guatemala) to handle the Y2K problem as well as to run key tests to confirm the areas where potential problems may exist. Both projects were completed successfully and allowed ETESA and INDE to save significant amounts of money by using the proposed solutions instead of implementing expensive system replacements
<b>Period of Performance</b>	1999

## Bid Evaluation for the SCADA/EMS Project of ENDESA, Chile

<b>Contracting Agency</b>	ENDESA, Chile
<b>Project Organization</b>	Prime Contractor: Electrotek Concepts, Inc. Savu C. Savulescu was responsible for developing the bid evaluation methodology and evaluating the offers
<b>Summary</b>	Bid evaluation of SCADA/EMS offers
<b>Period of Performance</b>	1999

## **Assessment of the Existing SCADA/AGC System and Migration to New SCADA/EMS Facilities at INDE-ETCEE as Required by the Open Energy Market in Guatemala**

<b>Contracting Agency</b>	Instituto Nacional de Electrificación (INDE) – Empresa de Transmisión y Control de Energía Eléctrica (ETCEE), Guatemala
<b>Project Organization</b>	Prime Contractor: Electrotek Concepts, Inc. Savu C. Savulescu performed all the tasks of the project and acted as project manager as well
<b>Summary</b>	Assessment of the Existing SCADA/AGC System and Migration to New SCADA/EMS Facilities at INDE-ETCEE as Required by the Open Energy Market in Guatemala
<b>Period of Performance</b>	1998

## **Generation Dispatch Center, Hydro-Plant Automation Systems and Telecommunication Facilities for the Empresa de Generación de Energía Eléctrica, Guatemala**

<b>Contracting Agency</b>	Instituto Nacional de Electrificación (INDE) - Empresa de Generación de Energía Eléctrica (EGEE)
<b>Project Organization</b>	Prime Contractor: Electrotek Concepts, Inc. Savu C. Savulescu performed all the tasks of the project and acted as project manager as well
<b>Summary</b>	Bid Evaluation and vendor selection
<b>Period of Performance</b>	1998

## **SCADA/EMS and Telecommunications System of Power Company No. 3, Da Nang, Vietnam**

<b>Contracting Agency</b>	Power Company No. 3 (PC3) on behalf of Vietnam Electricity (EVN), with funding from the World Bank
<b>Project Organization</b>	Prime Contractor: Kema Consulting, Inc. Savu C. Savulescu, as an employee of Kema, was Project Manager and Technical Lead with full responsibility for the SCADA/EMS, RTU and Communications components of the project
<b>Summary</b>	The project encompassed a feasibility study, including the assessment of the current situation and development of the conceptual information architecture; preparation of technical specifications and bidding documents; bid evaluation; and vendor selection
<b>Period of Performance</b>	1996 – 1997

## SCADA/EMS of UTE, Uruguay

<b>Contracting Agency</b>	Usinas y Transmisiones Eléctricas (UTE), Uruguay
<b>Project Organization</b>	Prime Contractor: Electrotek Concepts, Inc. Savu C. Savulescu was Deputy Project Manager with full responsibility for the SCADA/EMS component of the project
<b>Summary</b>	Prime Contractor: Kema Consulting, Inc. Savu C. Savulescu, as an employee of Kema, was Project Manager and Technical Lead with full responsibility for the identification of requirements and development of technical specifications
<b>Period of Performance</b>	1997

## Bid Evaluation Methodology for the SCADA/EMS of OPSIS, Venezuela

<b>Contracting Agency</b>	Operador de Sistema (OP SIS), Venezuela
<b>Project Organization</b>	Prime Contractor: Kema Consulting, Inc. Savu C. Savulescu, as an employee of Kema, was Project Manager and performed all the technical work
<b>Summary</b>	The project encompassed the development of the bid evaluation methodology to be deployed by OPSIS for the acquisition of the new SCADA/EMS
<b>Period of Performance</b>	1997

## Project Implementation for the SCADA/EMS of ISA, Colombia

<b>Contracting Agency</b>	Interconexión Eléctrica S.A. (ISA), Medellín, Colombia
<b>Project Organization</b>	Prime Contractor: Kema Consulting, Inc. Savu C. Savulescu, as an employee of Kema, was Project Manager with no other responsibility in the project
<b>Summary</b>	This was a short-term assignment as Project Manager in late 1997, which ended in early 1998 when Savu C. Savulescu resigned from Kema
<b>Period of Performance</b>	1997-1998

## SCADA/EMS of POWERGRID of India

<b>Contracting Agency</b>	POWERGRID of India, with funding from the World Bank
<b>Project Organization</b>	Prime Contractor: Kema Consulting, Inc. Savu C. Savulescu, as an Independent Consultant, was Lead technical Expert for the SCADA/EMS component of the project
<b>Summary</b>	Identification of requirements, development of technical specifications, bid evaluation and vendor selection for the Hierarchical SCADA/EMS in the Southern Region of India, encompassing SCADA/EMS systems for POWERGRID, in New Delhi, and the Electricity Boards of the States of Andhra Pradesh (Hyderabad), Karnataka (Bangalore), Kerala (Kochin) and Tamil Nadu (Madras)
<b>Period of Performance</b>	1994-1996

## SCADA/AGC System of Instituto Nacional de Electricidad, Guatemala

<b>Contracting Agency</b>	Instituto Nacional de Electricidad (INDE), Guatemala with funding from USAID TDA
<b>Project Organization</b>	Prime Contractor: Kema Consulting, Inc. Savu C. Savulescu, as an Independent Consultant, was Project Manager and performed all the technical work as well
<b>Summary</b>	This was a short-term assignment as Project Manager in late 1997, which ended in early 1998 when Savu C. Savulescu resigned from Kema
<b>Period of Performance</b>	1994-1995

## SCADA/EMS Feasibility Study for RENEL, Romania

<b>Contracting Agency</b>	RENEL, Romania, with funding from USAID TDA
<b>Project Organization</b>	Prime Contractor: Energy Control Consultants, Inc. (ECC), which became subsequently known as Kema Consulting, Inc. Savu C. Savulescu, as an Independent Consultant to ECC, was Assistant Project Manager and performed the technical work for the advanced network analysis and generation scheduling applications component of the project
<b>Summary</b>	Identification of requirements and development of technical specifications for the new SCADA/EMS of RENEL
<b>Period of Performance</b>	1993

## **Information System at the Power System Operations Direction (DOSNI) of the Instituto Nacional de Electrificación, Quito, Ecuador**

<b>Contracting Agency</b>	Instituto Nacional de Electrificación (INECEL), Quito, Ecuador, with funding from the World Bank
<b>Project Organization</b>	Prime Contractor: Savu C. Savulescu, as an Independent Consultant, was Project Manager and performed all the technical work
<b>Summary</b>	Design of the information architecture, preparation of technical specifications, implementation of user-interface and application building software, and on-site training for the offline information system aimed at supporting all the technical and administrative activities performed at DOSNI
<b>Period of Performance</b>	1989 – 1992

## **Cost-Benefit Analysis Study for the SCADA/EMS Replacement at Instituto Costarricense de Electricidad, San Jose, Costa Rica**

<b>Contracting Agency</b>	Instituto Costarricense de Electricidad (ICE), San Jose, Costa Rica
<b>Project Organization</b>	Prime Contractor: Savu C. Savulescu, as an Independent Consultant, was Project Manager and performed all the technical work
<b>Summary</b>	The project entailed: developing a cost-benefit analysis methodology that would be acceptable to the Inter American Development Bank (IADB) for the purpose of financing the SCADA/EMS replacement project; and performing the actual cost-benefit analysis study
<b>Period of Performance</b>	1992