



# Info-Electronics Systems Inc. Systèmes Info-Électroniques Inc.

**ISO-9001:2015 Certified System**

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## **1. INTRODUCTION**

Incorporated in 1981, Info-Electronics Systems Inc. (IES) is a Canadian company headquartered in Montreal, Canada. Our Indian joint-venture company, IES India, based in New Delhi, was incorporated in 1994. Our Quality Management System (QMS) is certified as compliant with ISO 9001:2015.

IES is a partnership-oriented company. We collaborate with and represent numerous North American and European companies around the world. For our partners, we provide an established presence in these markets without requiring them to incur significant marketing costs.

## **2. BUSINESS AREAS**

Operating in the field of computer-based technologies in Hydrometeorology, Remote Sensing, and Environmental Monitoring, IES functions as a systems engineering and integration company. We supply equipment through our various partners and deliver software development, integration, training, installation, and maintenance services. We also provide comprehensive Project Management Services.

### **2.1. Software Development**

IES provides software development services to clients worldwide, including in Canada and India. With our ISO 9001:2015-certified QMS, we follow a well-defined Software Development Life Cycle (SDLC) that incorporates all key processes, including configuration management, verification, and validation.

Our team is highly experienced in software development and utilizes state-of-the-art tools and technologies. We also employ robust tools for verification and validation, as well as for issue reporting and tracking.

### **2.2. Hydrology-Meteorology**

IES' Hydro-Met Division has been actively involved in the development of advanced systems for leading meteorological and hydrological organizations worldwide, including the Tonga Meteorological Services (TMS), Burkina Faso National Agency of Meteorology (ANAM), Kenya Meteorological Department (KMD), Saudi National Meteorological Center (NCM), Meteorological Service of Canada (MSC), India Meteorological Department (IMD), Central Water Commission of India (CWC), Snow and Avalanche Study Establishment (SASE), among others.

We provide turnkey data collection systems for disaster management applications for severe weather conditions. We also supply, through our partners, hydro-meteorological instruments and sensors tailored to meet diverse client requirements. This equipment includes Satellite Ground Reception and Processing Systems, Automated Weather Stations, a full range of hydro-

meteorological sensors, Solar Radiation Measurement Systems, Greenhouse Gas Monitoring Systems, Integrated Precipitable Water Vapor Systems, Hydromet Telemetry Systems, and more. We also offer Doppler Weather Radars (X, C, and S bands).

### **3. CUSTOMERS**

We provide services to various organizations in Canada and worldwide.

#### **3.1. International Customers**

IES has delivered products and services to more than a dozen countries. We have supplied VSAT-based reception systems and workstations for ICAO Aviation Weather Distribution Systems, as well as Radio Spectrum Monitoring Systems, to various clients. We also implemented a comprehensive weather forecasting and TV weather rendering system in Bahrain.

In India, we have successfully executed several major hydrology and meteorology projects, as detailed in Section 4. Our customers include the India Meteorological Department (IMD), Central Water Commission (CWC), Snow and Avalanche Study Establishment (SASE), Nudhum in Saudi Arabia, among others.

#### **3.2. Customers**

Our customers include government organizations and private companies such as:

- Tonga Meteorological Services (TMS),
- Burkina Faso National Agency of Meteorology (ANAM),
- Kenya Meteorological Department (KMD),
- Saudi National Meteorological Center (NCM),
- Meteorological Service of Canada (MSC),
- India Meteorological Department (IMD),
- Central Water Commission of India (CWC),
- Snow and Avalanche Study Establishment (SASE),
- Department of National Defence,
- Canadian Space Agency,
- Hydro-Québec

Earlier International customers include the national weather services of:

Hong Kong, Venezuela, Cuba, Brazil, Somalia, Kenya, Brunei, Bahrain, Korea, New Caledonia, Malta, Morocco, Algeria, and India.

## 4. PROJECT EXAMPLES

### 4.1. Projects Implemented

IES has successfully implemented several high-profile projects in Canada and internationally. Examples include:

- **Tonga Meteorological Service (TMS) — Integrated Forecasting Platform + Early Warning System (World Bank):** IES and its Spanish partner HYDS delivered an Integrated Forecasting Platform (Met WebGIS) and an ARGOS based Early Warning System for Tonga Met Service, Pacific Region.
- **Burkina Faso — ANAM Integrated Data/Visualization/Forecasting System (WMO):** IES was awarded a WMO contract to supply and install a complete system for data integration, visualization, surveillance, and weather forecasting for ANAM-BF in Western Africa
- Supply of a network of 20 microwave radiometers for the **Indian Air Force**, in partnership with Radiometrics Corporation.
- **Environmental Sensing Capability – Polar Epsilon Project for the Department of National Defence (DND) of Canada.** This project involved the installation of two MODIS satellite earth reception systems, along with the provision of equipment and related services, in collaboration with former partner Global Imaging.
- **Supply of 20 Automatic Weather Stations (AWS)** with communication via INSAT and ARGOS satellites for SASE.
- **Development and installation of a Satellite Data Processing Ground Station for INSAT-2E** (India's geostationary remote sensing satellite), known as the INSAT Meteorological Data Processing System (IMDPS) for IMD. The system processes raw remotely sensed data to generate imagery and derived products.
- **Installation of a flood monitoring system for two major Indian rivers for CWC**, including remote data logging stations transmitting observed data to central stations via satellite, where processing systems analyze the data.
- **Development and implementation of a satellite-based data distribution system** for the Meteorological Service of Canada.
- **Installation of a web-based Aviation Weather Information Rendering and Display System (Wafs-WebGIS)**, developed by IES) in Cuba and Somalia.
- **Installation of the Aviation Weather Information Processing and Presentation System (ULTIMA, developed by IES)** in more than a dozen countries, including Hong Kong, Venezuela, Cuba, Brazil, Somalia, Kenya, Canada, Brunei, USA, Bahrain, Korea, New Caledonia, Malta, Morocco, Algeria, and India.
- **Completion of the Tiger Project for Water Resources Management** in Morocco, conducted through the Canadian Space Agency.
- **Installation of a weather forecasting facility** at the Bahrain Meteorological Service.

## 4.2. Ongoing Projects

- **Installation of a web-based Aviation Weather Information Rendering and Display System (Wafs-WebGIS)** for Kenya Meteorological Department – In 2025, IES with their partner New Edge Solutions Ltd., deployed a WAFS-WebGIS aviation system for 10 airports in Kenya.
- **Sandstorm and Weather Integration and Monitoring on Road Network** for Saudia Arabia – National Center for Meteorology (NCM) - which includes the development of a mobile application.

## 4.3. Feasibility Studies

IES has completed several feasibility studies, including:

- A feasibility study for an Integrated **Disaster Forecasting and Management System (IDFMS)** for India.
- A feasibility study for an **Agricultural GeoCapacity Network System (AGCN)** for agricultural planning in the state of Punjab and subsequently across India.

## 5. IES PRODUCTS

IES is a highly innovative company with a strong focus on research and development. Our core product is our WebGIS Data Integration, Processing and Rendering GIS and Web based application, which is a generic platform for integrating, processing and viewing and manipulating georeferenced information data for environmental applications. The WebGIS package has the capabilities to be set up as a Decision Support System for applications such as monitoring and event management in meteorology, hydrology, disaster management, etc.

Over the past years, WebGIS has been customised and deployed into the following solutions:

- **Met-WebGIS** is a customized version of our WebGIS. A solution for viewing and manipulating geographic information-based data for environmental applications. The package supports multiple data sources and can be customized for a variety of client applications by integrating a wide range of features for data ingest and management, processing, rendering and display.
- **Wafs-WebGIS**, a version of our WebGIS application, designed for aviation meteorology. It operates as a web application hosted on central servers, enabling users to access data, generate custom weather flight folders, and save or print outputs using only a standard web browser. WAFS-WebGIS has been successfully operationalized by the national weather Services of Cuba and Somalia.
- **Swim-WebGIS** a version for Sandstorm and Weather Integration and Monitoring on Road Network, customised to integrate road Sandstorm and Weather conditions from 600 automatic weather stations equipped with cameras and four LIDARs, process it, render it and help in monitoring Sandstorm and Weather conditions.
- **3dv-WebGIS**, an innovative version for 3D Volumetric processing and rendering weather information, offering a unit multidimensional tools to analyse the weather events in its real life Three Dimensional and Temporal environment.

## 6. PARTNERS

Depending on project requirements, IES collaborates with and serves as a value-added reseller for several leading partners recognized for excellence in their respective fields:

- **Davis Instruments**, manufacturer of weather stations, gateways, repeaters, transmitters, and sensors for applications such as early warning systems and horticulture & agriculture.
- **Optical Scientific Inc. (OSI)**, developer of advanced optical instruments for hydrometeorological and agrimet applications, including AWOS, airflow, turbulence, and visibility systems.
- **Lufft**, a leading manufacturer of precision climate monitoring instruments, including compact weather stations and intelligent sensors for snow depth, visibility, wind, precipitation, and ceilometer measurements.
- **Radiometrics Corporation (RDX)**, manufacturer of atmospheric profiling radiometers and RAPTOR® radar wind profilers for boundary layer, tropospheric, and stratospheric applications.
- **EKO**, provider of solar radiation measurement equipment.
- **Picarro Inc.**, manufacturer of gas concentration and stable isotope analysis instruments using laser CRDS technology.
- **SIAP-MICROS**, telecommunications systems and data transmission networks that comply with the main international standards: WMO, UNI, CEI, ISO, EPA.

# **INFO-ELECTRONICS SYSTEMS INC.**

A System Integration and Product development company in the field of Meteorology, Hydrology, Remote Sensing, Environmental Monitoring and Impact-Based Early Warning.

- ◆ A high-tech systems development and integration company.
- ◆ ISO 9001:2015 Certified Quality Management System.
- ◆ with our partner companies, we provide state-of-the-art end-to-end solutions and equipment.
- ◆ Clients around the world.

