

# HYDRO-METOROLOGICAL NETWORK IN POLAND



8/10/2006

## IMPLEMENTATION OF A HYDROLOGICAL & METEOROLOGICAL TELEMETRIC MEASUREMENT NETWORK

In reaction to the July 1997 flood in the Odra River Basin in Poland, the worst experienced in this century, the Government of Poland adopted a National Program of Reconstruction and Modernization to prevent this type of catastrophe from happening again.

In 2003 a Canadian Consortium consisting of Hydro-Quebec International, Environment Canada and the Canadian Environmental Assistance was awarded a contract for supply and installation of approximately 500 Water Level Stations, 350 Rainfall Stations and 150 Meteorological Stations. The Consortium was responsible for the following:

- Delivery and installation of each kind of measurement station described in the tender (as above)
- Preparation and completion of all the required civil works to erect the stations including necessary design works
- Delivery and installation of the Data Collection Stations and Regional Branch Offices
- Delivery and installation of the Communication System
- Preparation of Software for each element of the Telemetry Network
- Configuration of all the elements of the Telemetry Network
- Testing of all the elements of the Telemetry Network
- Delivery of documentation relating to the activities of the Project and the final (as built) documentation of the Telemetry Network
- All Training
- Warranty

Sutron Corporation was selected to supply the following equipment:

- 1,033 XLite Dataloggers including 130 Analog Expansion Modules for the Meteorological Stations
- 107 SDI-Incremental Shaft Encoder Systems
- 345 Accubar® Bubbler Systems
- 57 Radar Water Level Measurement Sensors

Sutron Corporation was also contracted to perform the following tasks:

- Help design the overall system
- Write custom communications software
- Write custom power management software

OWNER	The Polish Institute of Meteorology & Water Management (IMGW)
CONTACT	Marek Gromiec Podlesna 61 Warsaw, Poland +48228340276 e-mail marek_gromiec@imgw.pl
PURPOSE	Emergency Flood Recovery Project Implementation of an automated hydrometeorological measurement telemetric network in Poland
EQUIPMENT	1033 Dataloggers (analog & digital), 107 SDI-12 Shaft Encoders, 345 Bubble Gauges, 57 Radar Water Level Sensors
VALUE	\$2,461,550



- Implement special bubbler operating mode
- Support integration tests in Canada & Poland
- Write software to simplify deployment & maintenance
- Support installation of initial sites in Poland
- Factory technical training and support

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