

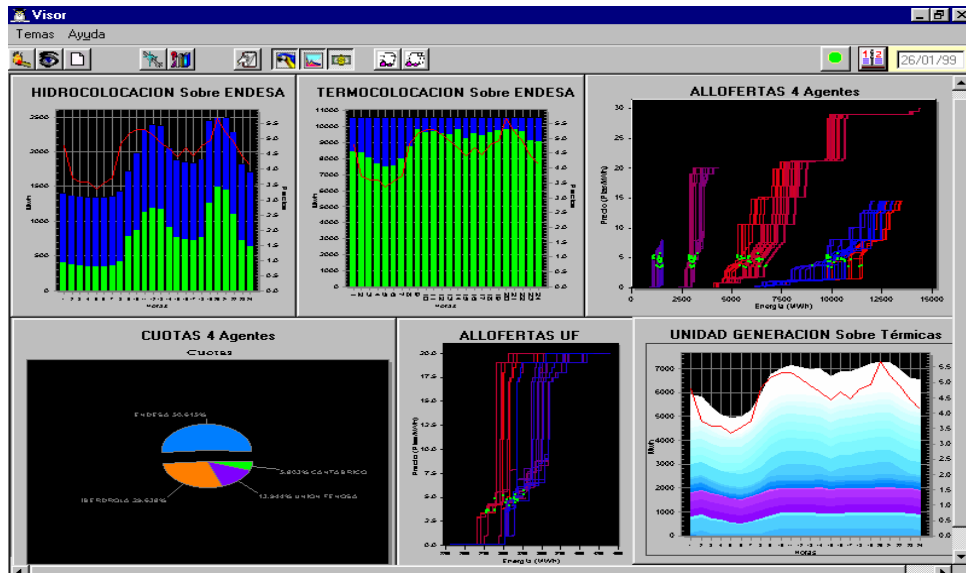
# ENERGY MARKET INTELLIGENT OBSERVATION SYSTEM

## INTRODUCTION

The Energy Market Intelligent Observation System (EMIOS) is dedicated to the monitoring of the Electrical Energy Market. It uses Artificial Intelligence techniques to perform pattern recognition data analysis, and to create sets of rules to support or modify the bidding-making strategies of Energy market agents.

EMIOS has been designed to assist in the generation and updating of bids by providing information based on detected agents behaviors during the energy pricing and production processes.

In that context, EMIOS uses the Energy market prices as its set of observations. It then analyzes this data by cluster classification and finally identifies anomaly-correlation concepts when the price classification does not correspond with the observed demands.



## MAIN FEATURES

- Intelligent Observation System.
- Monitors market evolution and agents performance.
- Analyses the data and detects and reports different types of anomalies (correlation, strategic, hydraulic, thermal,...).
- Provide anomalies interpretation by backward analysis of conceptual trees.
- Graphic representation of all studied magnitudes.
- Editing facilities for the configuration of conceptual trees.
- Direct access to all levels of information (market data and high level concepts).

## HARDWARE/SOFTWARE PLATFORM

The software is supported by PC environments under Windows, and allow the use of various databases (ACCESS, ORACLE, etc.).

