

Market Sector	: Buildings Energy Management Systems
Customer	: CRES-Greece
Contractor	: Energy Trading SA - Greece
Subject	: Adamsnet-Hydra has successfully completed the project "Integrated system for measuring and recording electrical and thermal energy and energy-saving automation in a building of 110 Combat Wing in Larissa Camp of the Ministry of National Defense, for the project LIFE11 ENV / GR / 938 – MECM"

The Challenge

The project LIFE11 ENV / GR / 938 «Military Energy and Carbon Management», is implemented with European and national resources and concerns the Environmental and Energy Management of the Armed Forces and in particular the development and pilot implementation of Energy Management System (EMS) in three (3) Camps of the Ministry of National Defense, according to ELOT EN ISO 50001: 2011. The Ministry of National Defense as beneficiary coordinator and CRES as joint holder are involved in the embodiment.

The Solution

Adamsnet-Hydra has undertaken on behalf of Energy Trading SA, under the relevant contract with CRES after a competitive process, the supply, installation, proper operation demonstration and training of technical staff for the use of integrated measurement and recording of electricity and heat systems and energy saving automation in a building in 110 Combat Wing in Larissa.

The Benefits

A real tool to implement the Energy Management System (EMS) according to **ISO 50001**.

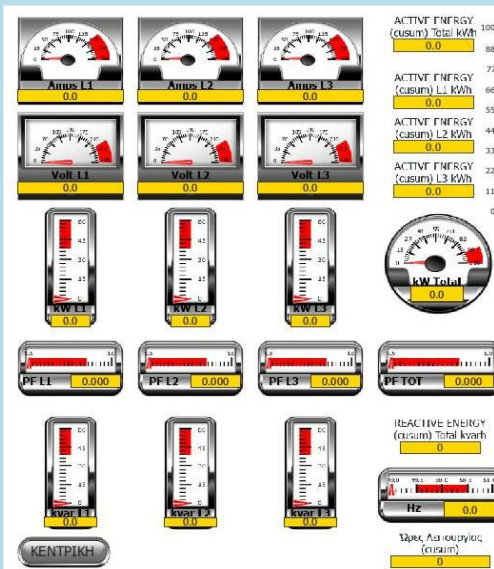
Key characteristics of operations that determine energy performance are monitored, measured and analyzed at planned intervals including:

- Significant energy uses and other outputs of the energy review
- EnPIs
- The effectiveness of the action plans in achieving objectives and targets.
- Evaluation of actual & expected energy consumption

The Preventive Management & real time Monitoring helps the Energy Saving optimization.

Voltage Problems are involved significantly in Total Energy Losses.

If you cannot measure it, you cannot improve it.



Electricity meters, calorimeters (for measuring thermal energy consumption for heating and domestic hot water is generated by the boilers & the central thermal solar system) and Smart Dupline automation system for energy savings (boiler compensation system with outside temperature control) were installed.

All the above systems and equipment are interconnected through the **Smart Dupline** automation system with a PC, on the **BTM SCADA** platform.

All data are available on graphs, by using the PC, thanks to the embedded **web server** software.

Adamsnet-Hydra Smart-Dupline Training Center

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