



Market Sector	<b>HOTELS</b>
Customer	<b>MISTRAL KOLYMBIA</b>
Who	<b><i>One of the best Destinations in Kolymbia Rhodes</i></b>
Where	<b><i>Rhodes Greece</i></b>
When	<b><i>2011 &amp; 2014 Season</i></b>
Subject	<b><i>Energy Services</i></b>
Cooperators	<b><i>Adamsnet-Hydra, BONAIR &amp; 2M Engineering</i></b>

*Where*

### ***The Challenge***

- To plan
  - 1) Energy Policy
  - 2) Energy Management
- To Evaluate the Performance of each critical Equipment
  - Domestic Hot Water
  - HVAC
  - Electrical Transformers
  - Thermal Flow
  - Building Skin
  - Refrigeration
  - Laundry
  - Reception, Restaurant & Cleanness Process
- To rupture all bad practices
- Re-commissioning & Re-design the old Electromechanical Equipments
- To detect the most important Energy Losses
- To Evaluate the Performance (END USE) of the Total Energy Consumption (Electricity & Liquid Gas)

### ***The Method***

- Installation of Power & Energy monitoring & Data logging System
- An analytical Motor-list with estimation of the Potential
- Holistic "END USE" Energy Audit(EN16247) in all significant Energy Uses with :
  - Energy Invoices Analysis
  - Thermal Imaging & Temperature Data logging to evaluate the thermal flow and the Building Skin
  - Power Analysis
  - Operational Condition Limits Regulation of all significant Equipments
  - EER estimation
  - Ultrasound Diagnostic & Spectra Analysis
  - BMS for Domestic Hot Water Installation & Optimization (times, set-points )
- EnPIs (Energy Performance Indicators) monitoring
- Energy Baseline calculation

### ***Benefits***

- The Energy Culture Impact to all employees
- Energy Saving Action Plans for all significant Uses Scaling the Opportunities with multi criteria payback analysis
- Organize the Format of all Energy Management Documents
- Peak Demand reducing
- 9,5% in Electricity & 10% in LPG energy savings according IPMVP 2012
- Preparation to apply ISO50001 Energy Management System