Energy Efficiency Plan in Public Sector in Portugal

5th Plenary Meeting, Prague, 21-22 November 2012

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Eco.AP program
Main Objective

January 2011 the Energy Efficiency Programme in Management Public - Eco.AP Project, a rolling program, to: increase the energy efficiency of Public Administration services, buildings and equipment, target of 30% by 2020, contracts with ESCOs to obtain, in a cost-effective, improvements in efficiency.
The Call procedure follows the structure defined in Law 29/2011.

First phase
- Start
- Simple Audit
- Detailed Audit

Second phase
- Negotiation
- Adjudication Decision
Model basis

- Energy and Savings
- ESCOs Payment
- ESCOs Obligations
- Additional Contracts
- Guarantees and Maintenance
- Service Requirements
Model basis

Savings

- Energy saving, for a reference period, for all existing vectors.

- The reference period is defined in the contract, which may be:
  • the consumption of the last year of consumption, or
  • a representative period of the building normal use according to their characteristics and the values should be based on energy bills.

- The euros paid during this reference period, divided by the kWh consumed during this period will lead to the "contract price expressed in € / kWh".

- The savings target is 30%, and a mandatory minimum reduction of 15%.
Model basis
Savings

Expected 3 savings levels:

1. Contractualised savings
   - Assured to the institution (minimum value of 5%)

2. Savings not contractualised
   - Shared between ESCOs and institution (guaranteed)
     - Minimum value of 10%

3. Energy bill

15/03/2013
CA-RES Concerted Action on the Renewable Energy Sources Directive
Model basis

ESCOs compensation

The remuneration of the ESE can be twofold:

- Energy savings achieved by energy efficiency management contract;

- Income from energy rationalization plan proposed to the building.

Be fixed each year, and revised annually. This review is done through updates on inflation in the contract price of kWh.

Is protected from energy price fluctuations or change in fees.
Model basis
ESCOs obligations

Payments must be guaranteed to the Institution. The assessment is done annually, with **savings measurement** and **verification** of the previous year.

Maintenance of mechanical and electrical installations of the systems included in the project, during the warranty period, after provisional acceptance.

Maintenance of service conditions agreed.

The management, as **project coordinator**, of the changes, renovations of mechanical installations that occur during the term of the contract (ESCOs receives a fee - 10 to 15% of the work value for the management and coordination.)
Model basis (continuation)

- Steering committee
- Baseline Definition
- Baseline Change
- Measurement and Verification
- Financial Basis Type
- Energy Performance Certification
The whole market target

- The Public sector has around 11,000 energy feeding points (includes Central Administration + Institutes + Local Administration).
  - Estimated annual consumption of 5 TWh / year energy bill estimated at 500 M € / year.

- Different Types of Use: hospitals, military, services/offices, schools, etc..

- Includes buildings, street lighting and other related systems.

- Can also include maintenance contracts and energy production under a special regime, like minigeneration.
Eco.AP schedule until 2015

In this first phase of the program (2012-2015) will be covered approximately: **300 buildings; 700 GWh** of energy consumed annually, **75 M €** of annual energy bill.

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<th>GWh</th>
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<td><strong>300</strong></td>
<td><strong>700</strong></td>
<td><strong>75</strong></td>
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This universe corresponds to the following potential compensation for ESCOs: **14 M €** annual savings + maintenance contracts + special regime production.
For more information


Thank you for your attention