

Legal framework for energy performance contracting (EPC) in Portugal

Financing energy efficiency in Romania, Hungary

Bucharest, 1 February 2018



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LEGAL FRAMEWORK

ECO.AP Program



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RCM n.º 2/2011, from January 12th

- Creates the **ECO.AP program**

DL n.º 29/2011, from January 28th

- **Develop the legal framework for energy performance contracts (EPC) in the public sector**, in coordination with the remaining procedures for public procurement

Normative Order n.º 15/2012, from July 3rd

- Creates an **ESCO Qualification system**

RCM n.º 67/2012, from August 9th

- Established the **Implementation Plan** between the Ministries to subscribe the ECO.AP program (5-year period to launch ESCO)

Ordinance n.º 10/2012, from February 5th

- Establishes a **specification model to be used by the public sector in tender for energy performance contracts development**

DL n.º 68/2015, from April 30th

- **Clarifies the application of ECO.AP to the regional and local public administration**

A NEW APPROACH ARE IN DISCUSSION (NTEC)

ECO.AP PROGRAM

Main objectives



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- Promote the **energy efficiency in Public Administration**
- Promote the development of the ESCO market in Portugal, both on the public and private sector**
- Development of Energy Performance Contracts in the buildings and equipment with higher energy consumption (or inefficiency)**
- Contribute to the established in NEEAP: to reduce energy consumption in Public Administration Sector in 30% until 2020**
- Existence of an Local Energy Manager in Public Administration (≈ 600 technicians)**



eco.ap

Programa de Eficiência Energética
na Administração Pública

ECO.AP PROGRAM

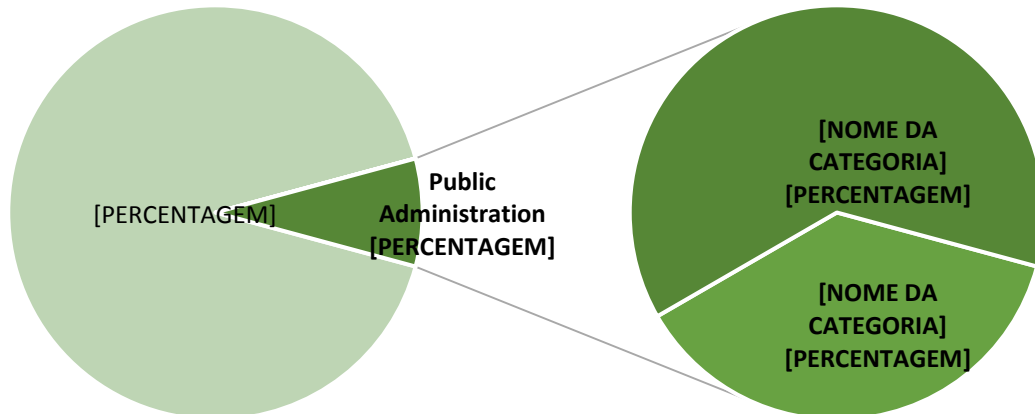
Main objectives



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- ❑ Development of the **Barometer ECO.AP** in order to **evaluate the energy** efficiency of the Public Administration

Portuguese electricity consumption (2015) – 46,8 TWh



"you can't manage what you don't measure"

Barómetro Eco.AP

Página inicial Caracterização Consumos Medidas EE Resultados Análise Energia Análise Potência Contacto

A NEW BAROMETER BRIEFLY

ODIRE

Legislação

O Barómetro de Eficiência Energética da Administração Pública, destina-se a comparar e a divulgar publicamente o desempenho energético dos serviços. Este, através de um mecanismo de avaliação e ranking de entidades, promove a competição entre as entidades públicas, comparando e divulgando publicamente o ranking de desempenho energético dos serviços e organismos da administração directa e indirecta do estado, através de uma bateria de indicadores.

- Resolução do Conselho de Ministros n.º 80/2008;
- Portaria nº1316/2010;
- Resolução do Conselho de Ministros n.º 93/2010;
- Resolução do Conselho de Ministros n.º 2/2011;
- Decreto-Lei n.º 29/2011.

Saiba mais

Questões

Que organismos da AP devem participar no Barómetro ECO.AP?

Devem participar no Barómetro Eco.AP todos serviços e organismos da administração directa e indirecta do Estado, bem como: empresas públicas, universidades, entidades públicas empresariais, fundações públicas, associações públicas, associações privadas com capital social maioritariamente público.

Saiba mais

Saiba mais

ESCO QUALIFICATION SYSTEM



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ESCO Levels	Energy Consumption	Technical Requirements	Financial Requirements	Numbers of ESCO (31/12/2017)
Level 1	$\leq 3 \text{ GWh}_{\text{eq}}$	<ul style="list-style-type: none"> • 2 Energy Expert (EPBD) • 1 Energy Auditor 	<ul style="list-style-type: none"> • Turnover $\geq 200 \text{ k€}$ • Financial Autonomy $\geq 15\%$ 	28
Level 2	$> 3 \text{ GWh}_{\text{eq}}$	<ul style="list-style-type: none"> • 2 Energy Expert (EPBD) • 1 Energy Auditor • 1 CMVP (M&V) • 2 Engineer (Industrial energy expert) 	<ul style="list-style-type: none"> • Turnover $\geq 1 \text{ M€}$ • Financial Autonomy $\geq 25\%$ 	38

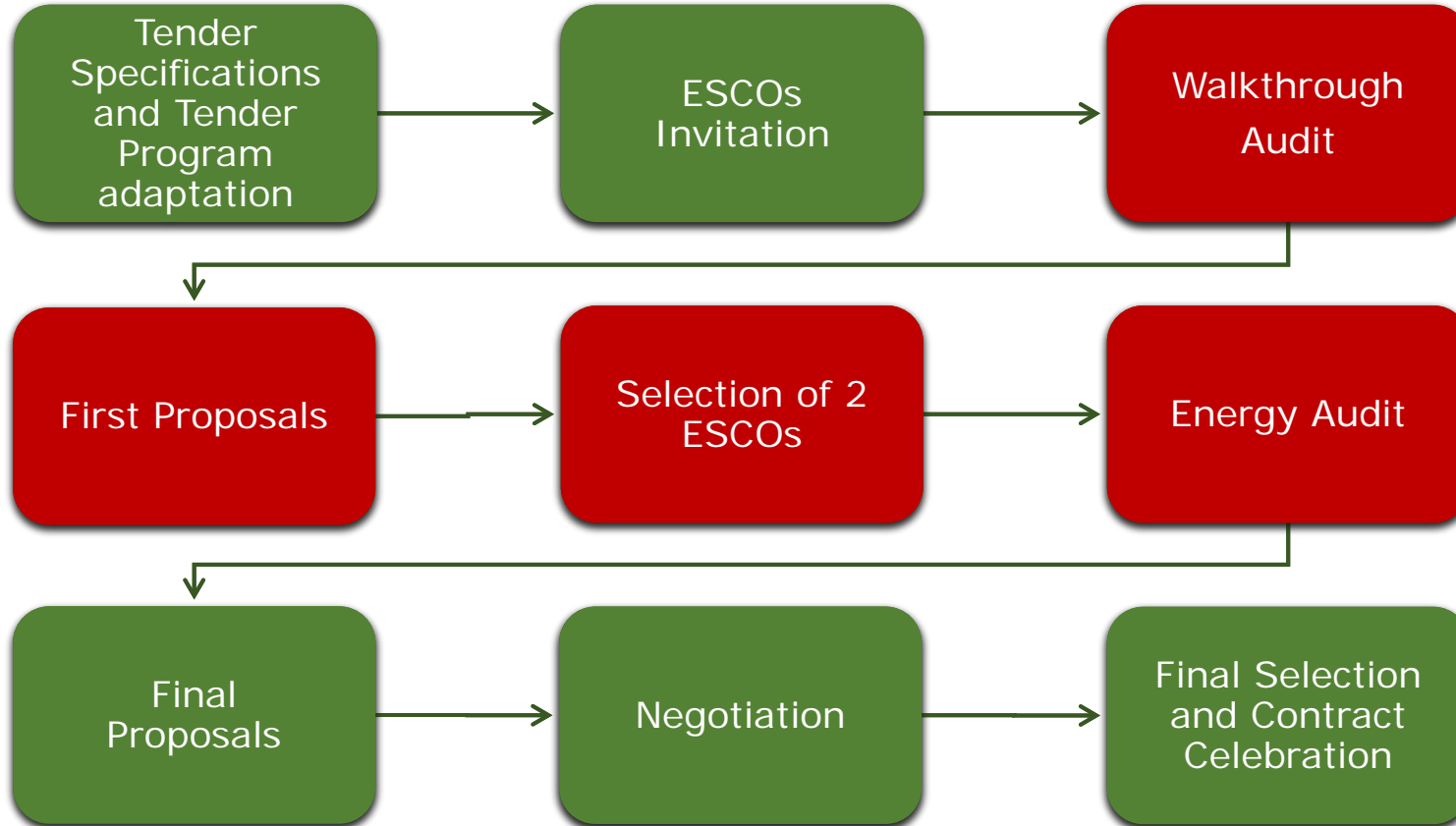
TOTAL
66

ENERGY PERFORMANCE CONTRACTS

Procedures



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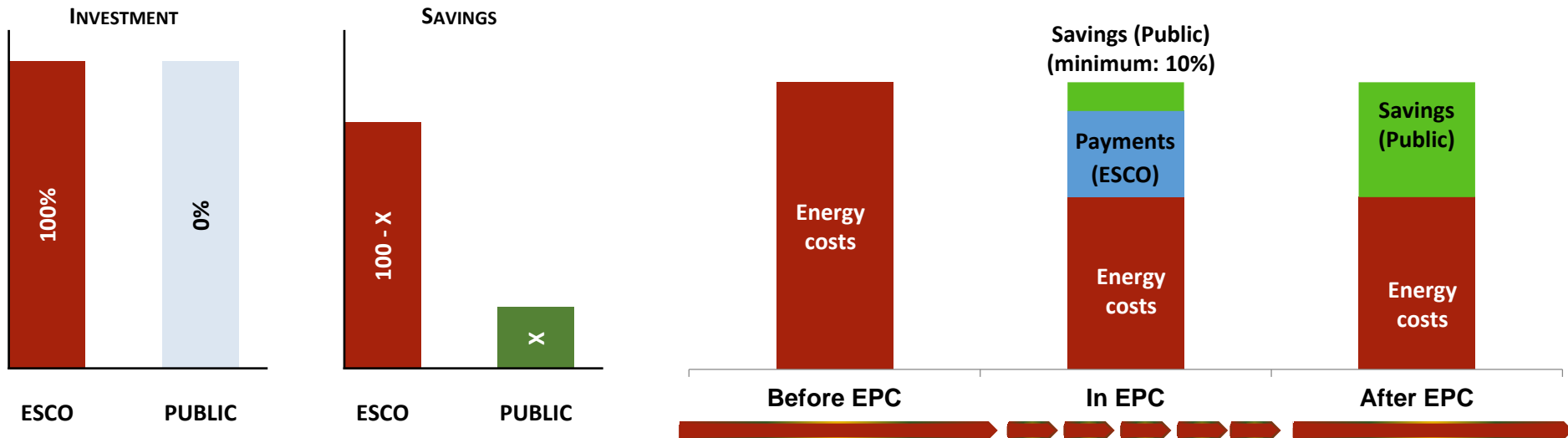


ENERGY PERFORMANCE CONTRACTS

Business Model and Assessment Methodology



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$$P = \left[\frac{NPV - NPV_{min}}{NPV_{min}} \right] \times 50\% + \left[\frac{16 - n}{16 - 6} \right] \times 50\%$$

P	Pontuation
NPV	Net Present Value of the savings to be delivered to de Public Administration
NPV _{min}	Minimum Net Present Value of the savings to be delivered to de Public Administration
n	Contract term

ENERGY PERFORMANCE CONTRACTS

Some Examples in Portugal



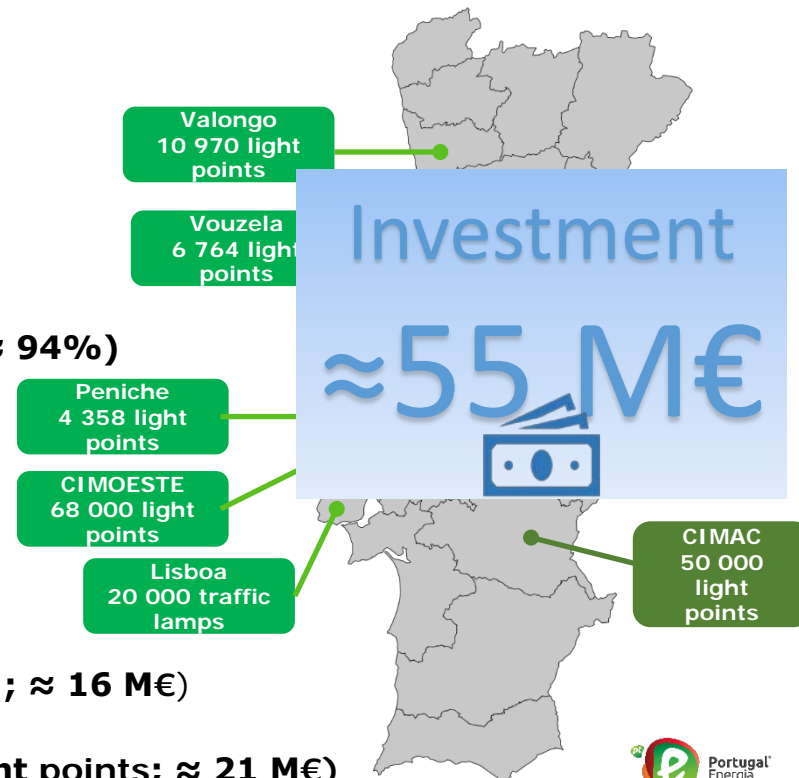
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Public buildings and equipments:

- Abrantes hospital (ongoing)
- Beja Healthcare (ongoing)
- Seixal swimming Pools (ongoing)

Traffic and Street Lighting:

- Lisbon Municipality (**≈ 20 000 traffic lights; Efficiency ≈ 94%**)
- Peniche Municipality (**4 358 light points; ≈ 1,6 M€**)
- Vouzela Municipality (**6 764 light points; ≈ 1,5 M€**)
- Valongo Municipality (**≈ 10 970 light points; ≈ 6,5 M€**)
- Oeste Intermunicipal Community (**≈ 68 000 light points ; ≈ 16 M€**)
- Alentejo Central Intermunicipal Community (**≈ 50 000 light points; ≈ 21 M€**)



ENERGY PERFORMANCE CONTRACTS

Conclusions



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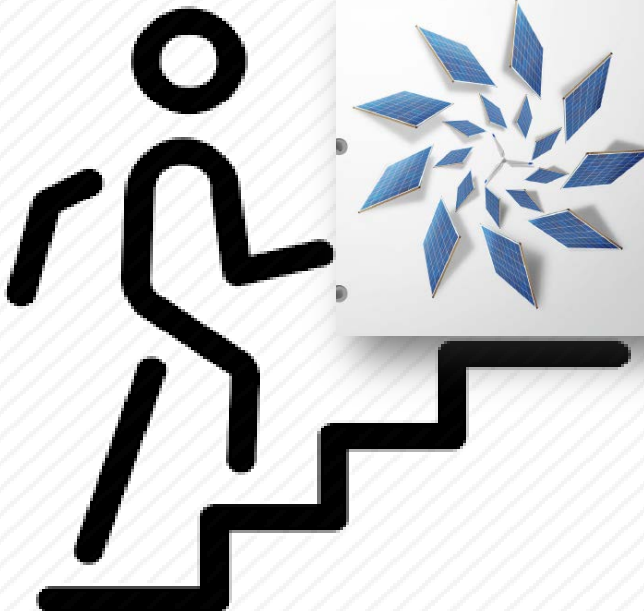
The FIRST STEP IS DONE!

New EUROSTAT
Guidance



- Improvement of the thermal comfort
- Improvement of the security in
- Guarantee of operating conditions
- Reach the goals to Public Administration
- Reduction of the CO₂ emissions
- Leverage of the economy in the
- More investment in I&D to new
- Mitigate the public accounts

consumption in 30% until 2020



- Low level of knowledge from the
 - Time it takes to step up the pro
 - Duration of the Contracts (until
 - In the buildings: some complex
 - The Public Administration prefers
- EFFICIENCY)

their advantages

to Renewables)

out the operational conditions

TRIBUTE THE ENERGY





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