

# EED and Eco.AP

(Energy Efficiency Program in the Public Administration)

ATHENS

March 28<sup>th</sup>, 2014

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de eficiência  
energética

# Energy Efficiency Directive

## The Portuguese Approach

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## Article 5

“6. Without prejudice to Article 7 of Directive 2010/31/EU, Member States may opt for an **alternative approach** to paragraphs 1 to 5 of this Article, whereby they take other cost-effective measures, including deep renovations and measures for behavioral change of occupants, to achieve, by 2020, an amount of energy savings in eligible buildings owned and occupied by their central government that is at least equivalent to that required in paragraph 1, reported on an annual basis.”

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## Program Eco.AP

# Program Eco.AP

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## Program Eco.AP

### Objectives:

- Promote the efficient use of energy in Central Government;
- Promote the development of the ESCO market in Portugal, both on the public and private sector;
- Contribute to achieve the goals established in NEEAP to reduce energy consumption in Public Administration Sector in 30% until 2020.

## Main Measures :

- Existence of an Energy Manager in all Central Government Bodies;
- Development of the Barometer ECO.AP in order to evaluate the energy efficiency Central Government Sector
- Development of Energy Performance Contracts in the buildings/equipments with an higher energy consumption (or inefficiency);
- Development of energy efficiency action plans for the remaining buildings or equipment.

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# Energy Manager

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## Objectives:

- Promote energy efficiency locally, in the several Central Government Institutions;
- Report data to Energy barometer in order to compare energy efficiency, and identify best practices;
- Prepare the tender specifications and tender program based on the model documents already available in Ordinance n.º 60/2013.



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# Energy Barometer

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## Eco.AP Barometer

### Objectives:

- Get together, in a single database, information about energy consumption of the Central Government Institutions;
- Identify best practices in energy management and energy efficiency;
- Identify priority areas of intervention (for energy efficiency practices, policy development and financing)

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# Energy Efficiency Action Plans

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## Objectives:

- For buildings with lower energy consumption, or with no real chance to implement an EPC, should be developed an energy Efficiency action plan;
- Based mostly in soft measures, with low or without investment associated, and based on behavioural changes and energy management policies;
- ISO 50001 as a reference document (not mandatory);

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# Energy Performance Contracting

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## Tendering Process

Was developed Tender Specifications model to be used by Public Administration in order to celebrate Energy Performance Contracts:

(<http://dre.pt/pdf2sdip/2013/02/025000000/0551605530.pdf>)

Discussão Pública

Caderno de Encargos e Programa do Procedimento Tipo



Programa de Eficiência Energética  
na Administração Pública

Encontram-se disponíveis para discussão pública os modelos tipo do Caderno de Encargos e do Programa do Procedimento, a publicar no âmbito do Programa ECO.AP de acordo com o disposto no DL 29/2011 de 28 de Fevereiro.

Os comentários deverão ser remetidos no formato Word usando a **ficha de contributos** disponível no link seguinte, para o endereço [geral@adene.pt](mailto:geral@adene.pt) até à **data limite de 16 de Março**.

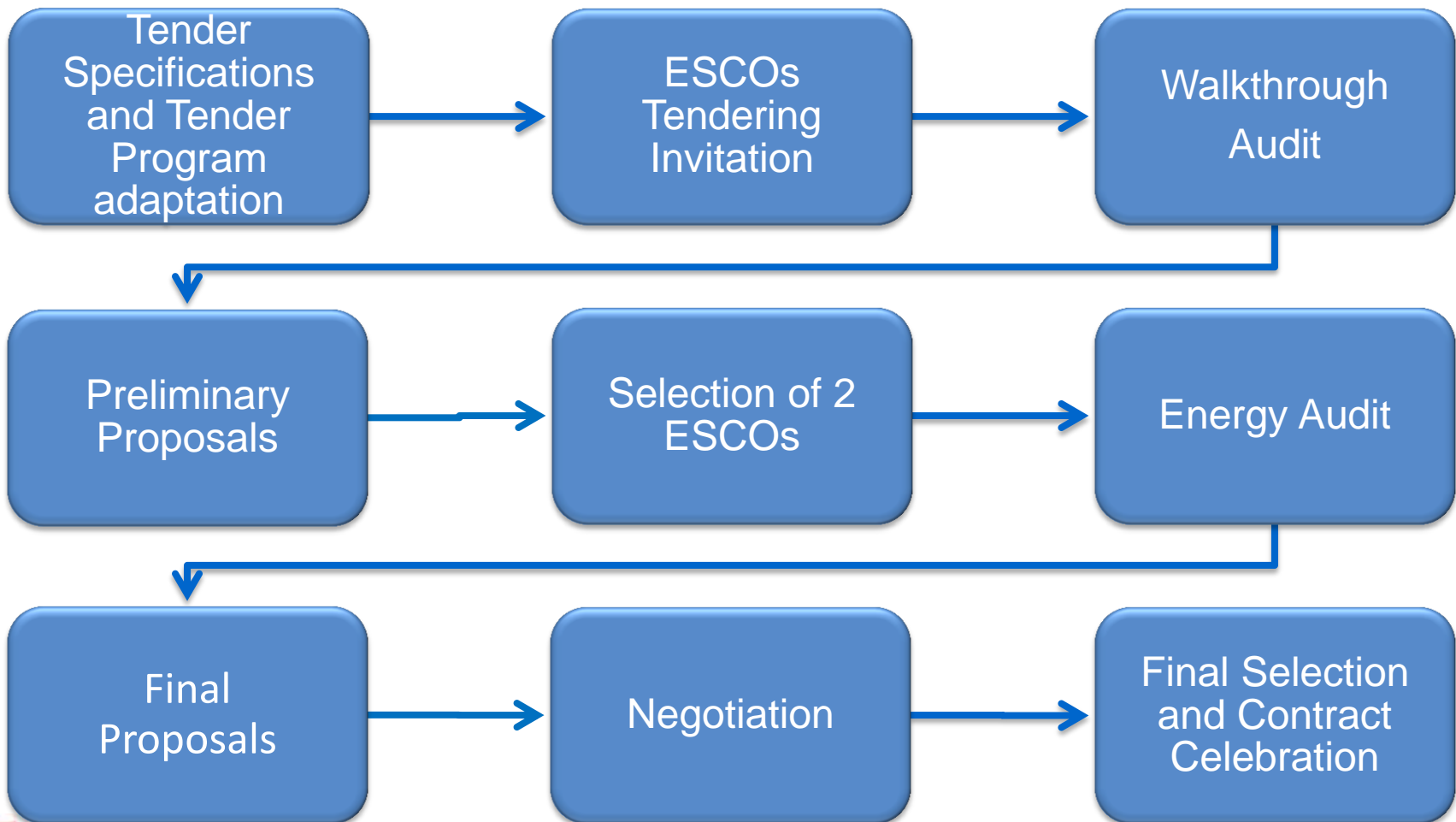
- Caderno de Encargos Tipo
- Programa do Procedimento Tipo
- Ficha de Contributos

Enviar esta página | Enviar comentários

## ESCO – Pre Qualification System

Driver	Levels	Technical Requirements	Financial Requirements
Complexity of buildings / Equipments	<b>Level 1</b> $\leq 3000 \text{ Gwh}_{\text{eq}}$	<ul style="list-style-type: none"> <li>• 2 Energy Expert (EPBD)</li> <li>• 1 Energy Auditor</li> </ul>	<ul style="list-style-type: none"> <li>• Turnover <math>\geq 200 \text{ k€}</math></li> <li>• Financial Autonomy <math>\geq 15\%</math></li> </ul>
	<b>Level 2</b> $> 3000 \text{ GWh}_{\text{eq}}$	<ul style="list-style-type: none"> <li>• 2 Energy Expert (EPBD)</li> <li>• 1 Energy Auditor</li> <li>• 1 CMVP</li> <li>• 2 Engineer (SGCIE)</li> </ul>	<ul style="list-style-type: none"> <li>• Turnover <math>\geq 1 \text{ M€}</math></li> <li>• Financial Autonomy <math>\geq 15\%</math></li> </ul>

# Tendering Process

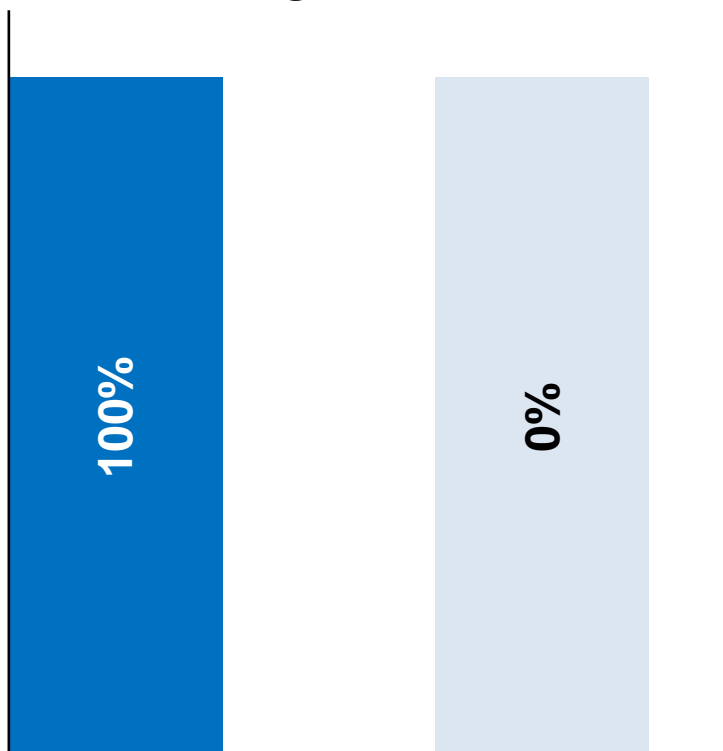




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# Business Model

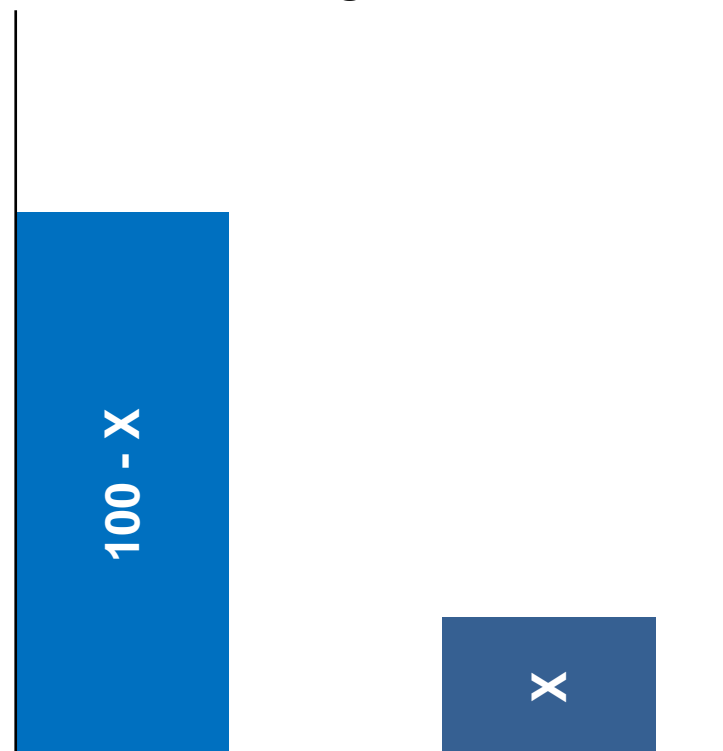
## INVESTIMENT



ESCO

STATE

## RETURN

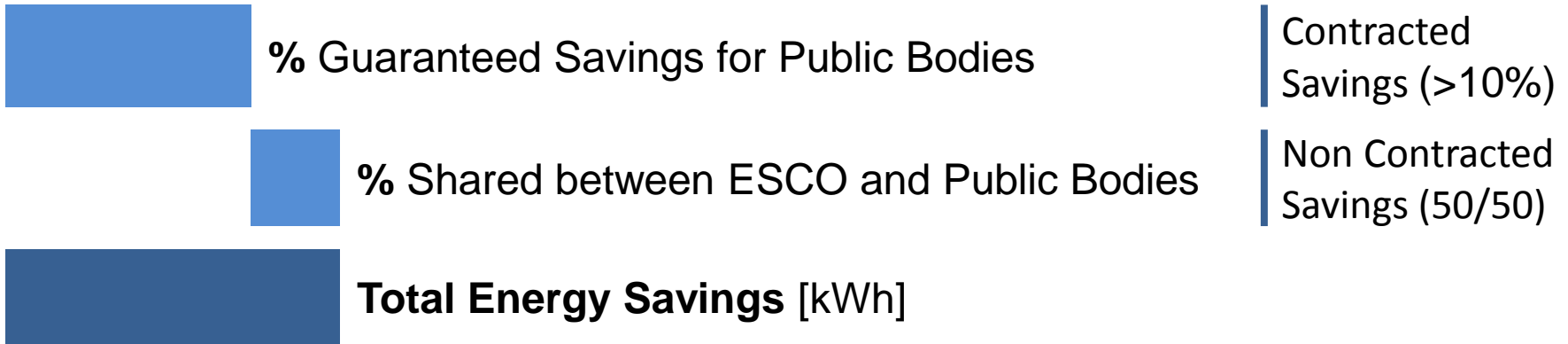


ESCO

STATE

## Energy Savings

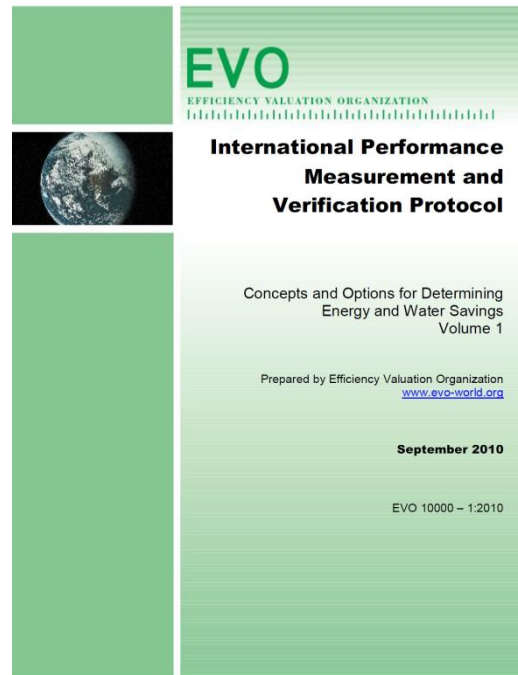
Energy Savings (cost savings) are divided between ESCO and Public Bodies, and ESCO ensure Guaranteed Savings



**Energy savings risk is assured by ESCOs.**

# Measurement and Verification

Necessary to establish normalized approaches to measure and verify savings



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# Energy Performance Contracting

2011

2012

2013

2014

RCM n.º 2/2011	DN n.º 15/2012	Ordinance n.º 67/2013	Order n.º 4994/2013
DL n.º 29/2011	RCM n.º 67/2012	Ordinance n.º 6954/2013	
		Energy Efficiency fund . Call 5	Tendering procedures for 10 EPC's
		Innovation Support Fund – Call Energy Efficiency in Non Residential Buildings	Two contracts for EPC in private sector
		Eco.AP Barometer	Eco.AP Barometer
		Contract signature between European Investment Bank and ADENE - ELENA	ELENA project implementation for technical assistance

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**Próximos Passos: ECO.AP**

**Thank you**