

Energy Efficiency Plan in Public Sector in Portugal

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

LNEG, Susana Camelo

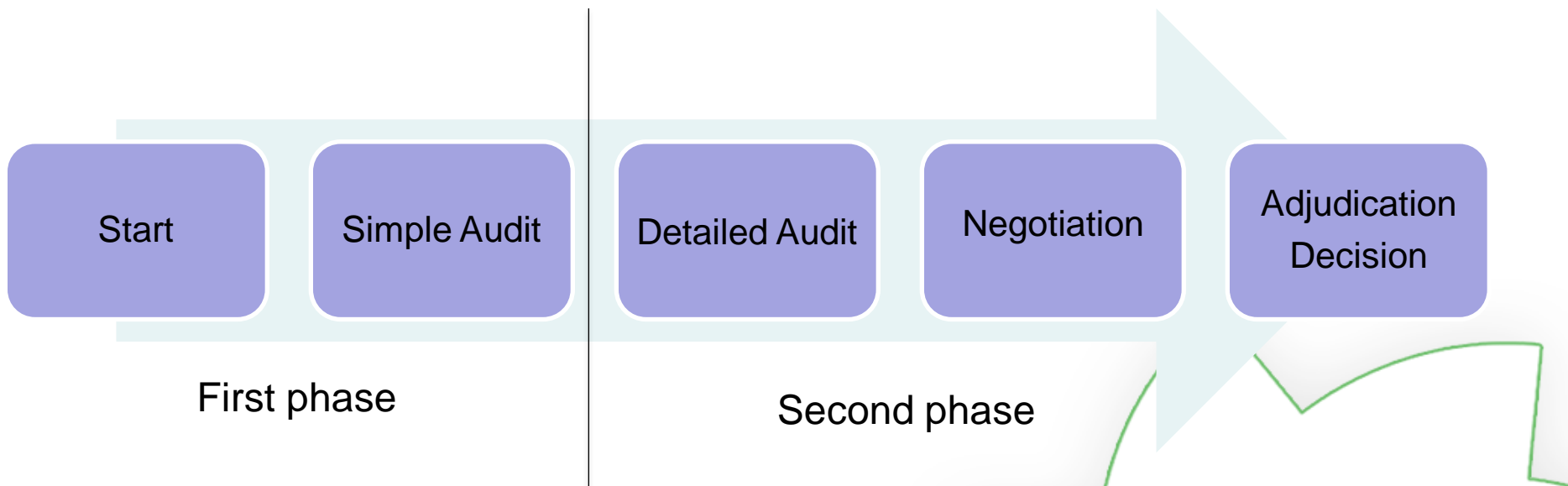
Eco.AP program

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

Call procedure

- ✦ The Call procedure follows the structure defined in Law 29/2011



Model basis

Energy and Savings

ESCOs Payment

ESCOs Obligations

Additional Contracts

Guarantees and Maintenance

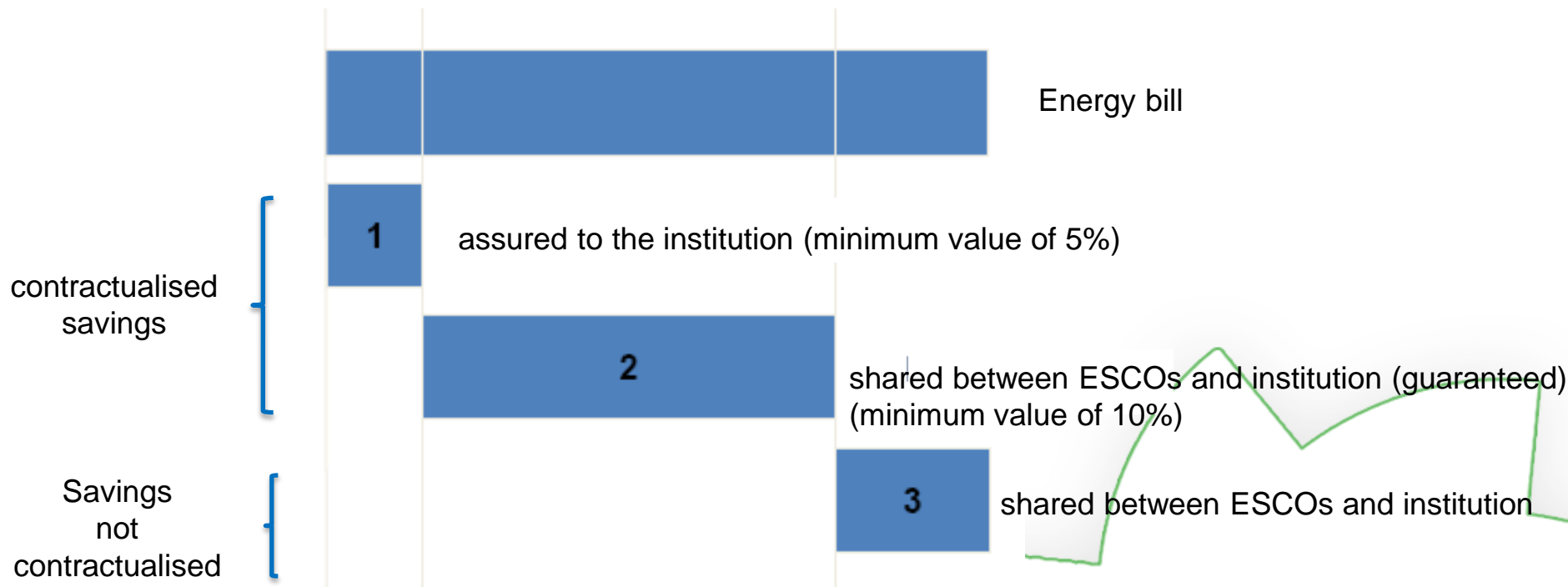
Service Requirements

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:



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

Ano	#	GWh	M€
2012	20	50	5
2013	50	150	15
2014	80	200	20
2015	150	300	35
total	300	700	75

-  This universe corresponds to the following potential compensation for ESCOs: 14 M € annual savings + maintenance contracts + special regime production.



For more information

www.dgeg.pt

<http://ecoap.adene.pt/>

Thank you for your attention