Are Energy Efficiency Obligations an alternative? The case-study of Portugal

José Luís Sousa António Gomes Martins Humberto Manuel Jorge





Energy Efficiency fostering by electric utilities - Milestones

- 1998 first regulatory framework
- 1999-2001, 2002-2004 and 2005

 Demand-side plans (PGP)
- 2006 Demand-side efficiency promotion plans (PPEC) rules
- 2007 and 2008 PPEC calls
- 2008 new regulatory framework
- 2009-2010, 2011-2012, 2013-2014 PPEC calls

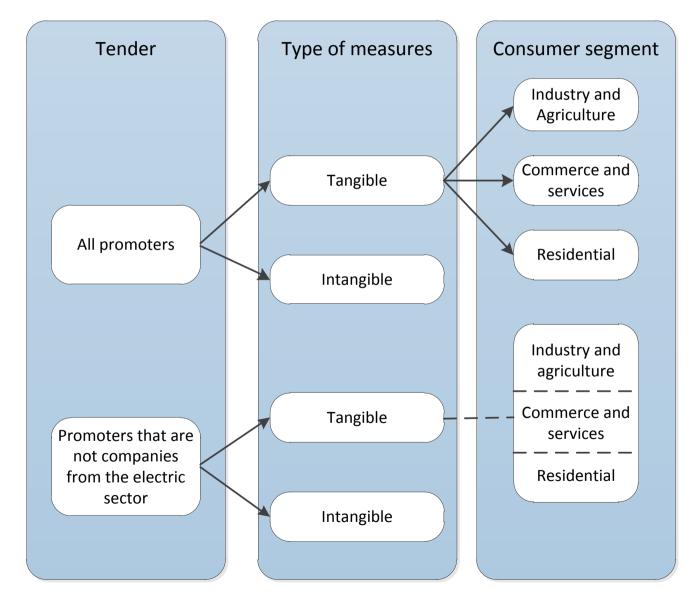


Portuguese Demand-side Efficiency Promotion Plan characteristics

- Managed by the Portuguese Energy Regulator (ERSE)
- Voluntary mechanism (tender mechanism)
- Budget from euro/kWh charge paid by all customers (~23 million euros for two years)
- Call for energy efficiency and load management measures
- Promoters: electricity suppliers, distribution and transport network operators, consumer organizations, business associations, energy agencies, municipal agencies, higher education and R&D institutions.



Tenders, type of measures, and consumer segments





Portuguese Demand-side Efficiency Promotion Plan characteristics

- PPEC participation limited to 80% of the costs, for tangible measures
- No lost revenues recover mechanism in place

Electricity suppliers are asked to voluntarily invest in measures that will reduce their income

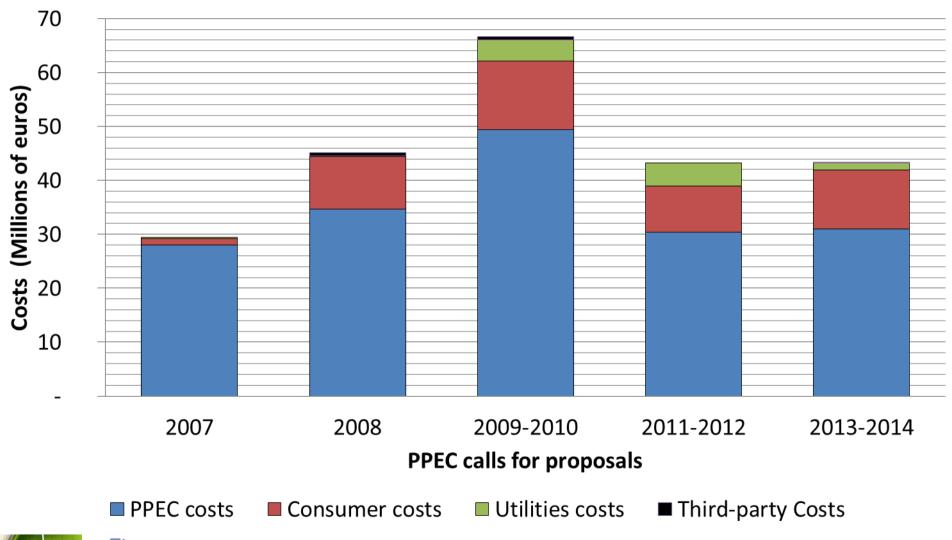


Some results regarding the participation

	2007	2008	2009-2010	2011-2012	2013-2014
PPEC costs of eligible proposed measures (M€)	26.6	46.3	58.1	57.1	58.8
Intangible measures (M€)	7.3	8.7	18.3	18.3	28.2
Tangible measure (M€)	19.3	37.5	39.8	38.8	30.6
Proposed measures	62	131	125	159	207
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Measures proposed by Utilities	58	81	85	72	87
Measures proposed by Non-utilities	4	32	36	74	120

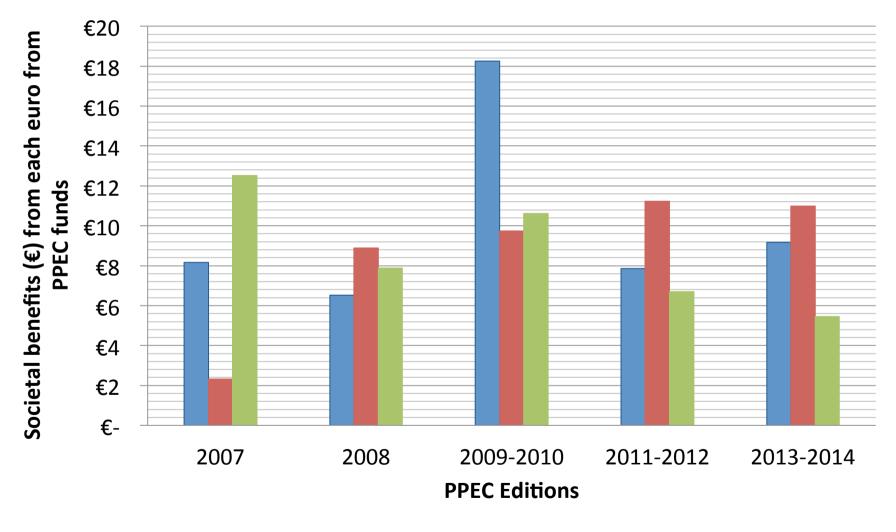


Societal costs of measures proposed by utilities

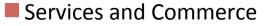




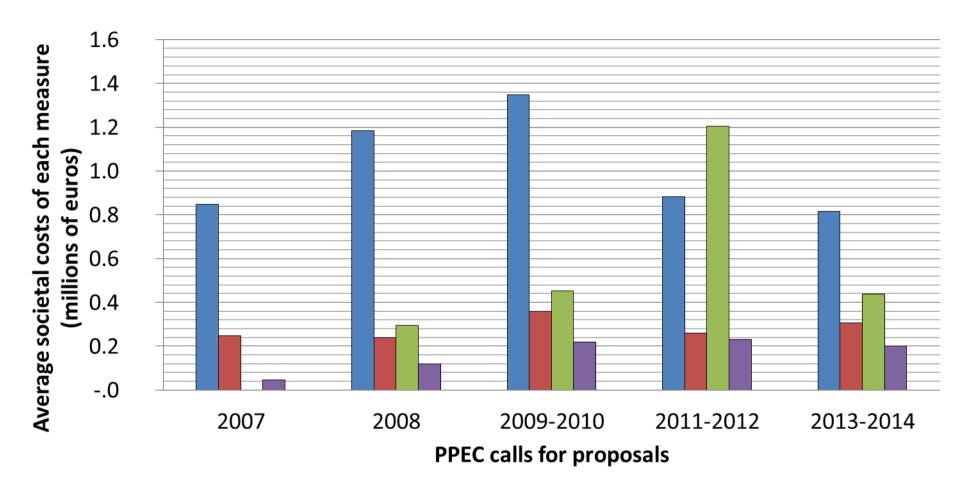
Societal benefits from each euro of PPEC funds invested







Average societal costs of each measure



■ Tangible (utilities) ■ Intangible (utilities) ■ Tangible (non-utilities) ■ Intangible (non-utilities)

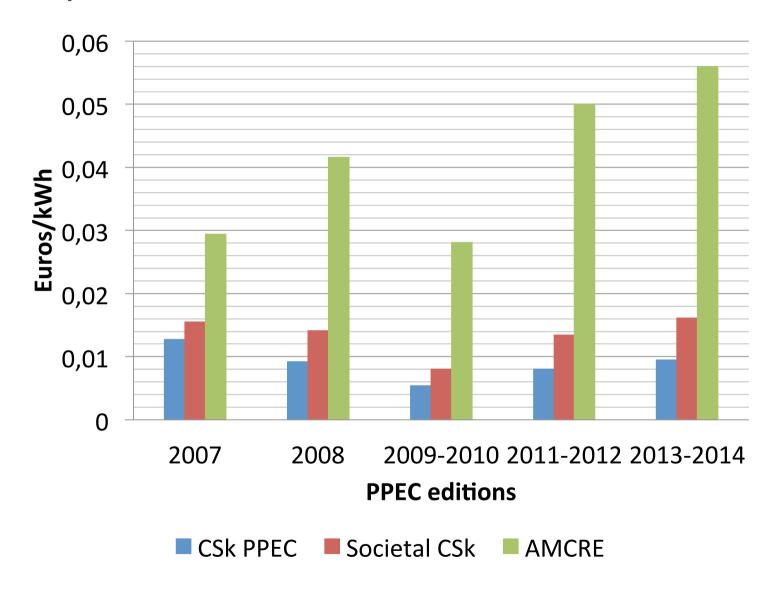


CSk PPEC, Societal costs and AMCRE

CSk PPEC – Cost of each saved kWh allocated to PPEC budget

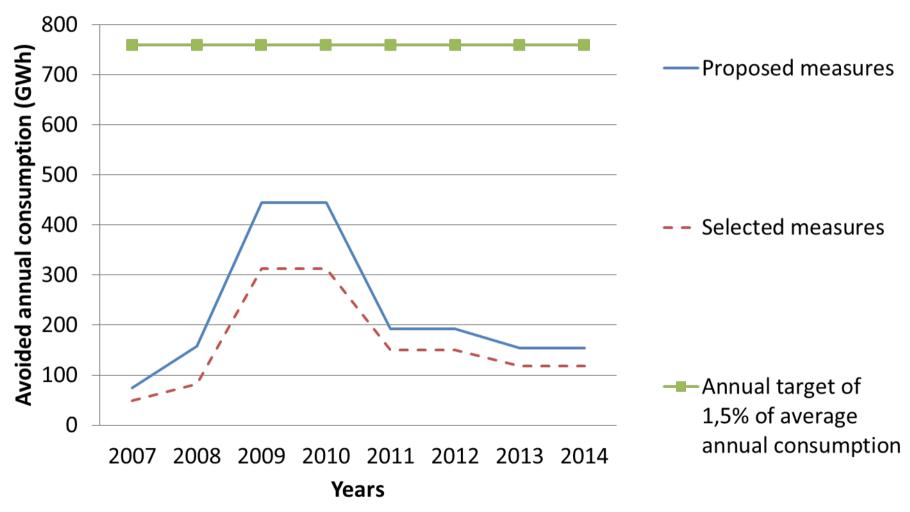
Societal CSk – societal costs

AMCRE – Additional costs incurred in paying renewable kWh above market costs





Avoided final energy consumption and 1,5% target





Summary

- Overall 15 years of experience stimulating electric utilites to promote EE (last 8 under PPEC)
- Voluntary mechanism
- Number of measures proposed by non-utilities increasing at a higer pace than from utilities
- Experience from five PPEC editions designing measures, selecting technologies, finding partners to deliver technologies and to implement the measures, ...



The Next step

A COMMITMENT

- Setting targets
- Extend the mechanism to other fuels

Where to go from here?

In an EEO scenario:

- Obligated parties
 - Utilites: a natural choice.
 - What should be the role of non-utilities promoters?
 - players in a white certificate scheme?
 - Should there be a PPEC for non-utilities? How should the budget be shared?
- Funding
 - Costs of doing business?
 - Cost recover through tariffs?

