

The 55% tax reductions for building retrofitting in Italy: the results of ENEA's five years activities



Giampaolo Valentini – Patrizia Pistochini

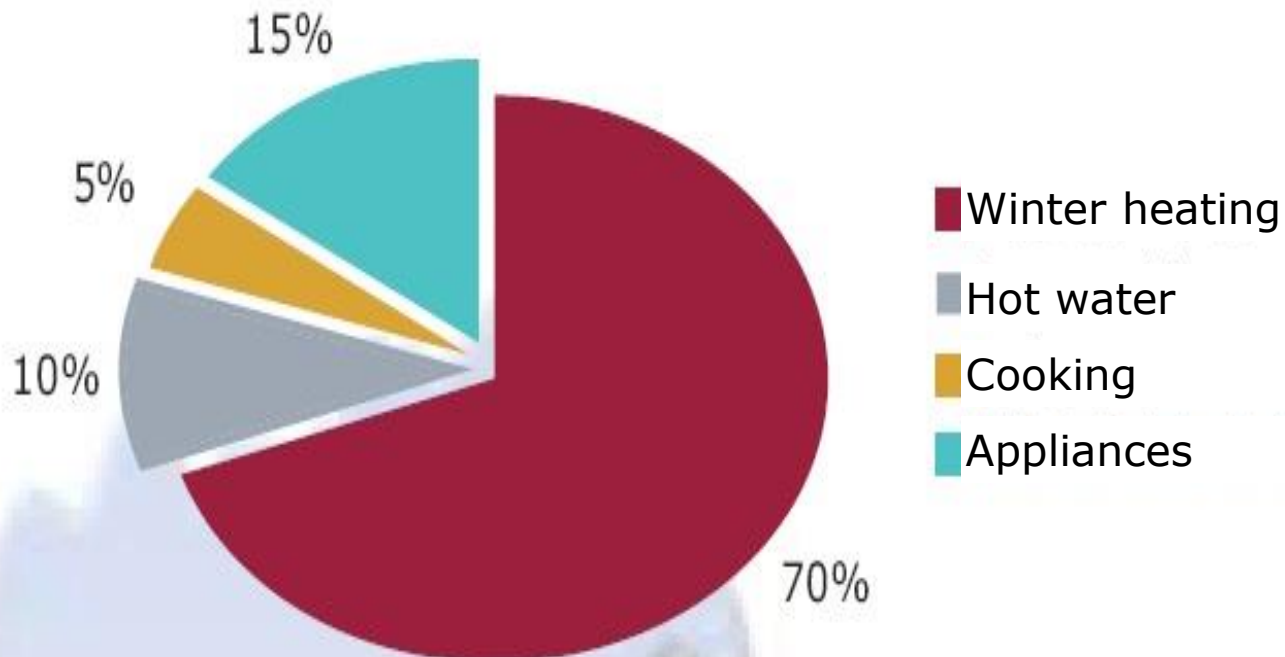
ENEA - Italian National agency for new technologies, energy and sustainable economic development

IEPEC International Conference

Rome, 13 June 2012

Energy demand in the residential sector

*35.2% of global energy consumption
(equals to 133 Mtoe in 2009) is attributed to buildings*



Source: ENEA

The most generous system of incentives ever established.

Allows a tax deduction:

- of **55%** of expenses for works to save energy for winter heating in existing buildings;
- with high limits of deduction, from 30 to 100 k€;
- on personal and corporate income taxes.

Incentives for...



- Global upgrading of existing buildings.
- Insulation of walls, floors and ceiling.
- Replacement of windows with low transmittance.
- Installation of solar thermal collectors.
- Replacement of heating systems with condensing boilers, with high efficiency heat pumps or geothermal plants.

How it works



- **Results are stated by users** under their own liability and certified by professional people.
- Performance control on realized works and penalties, if any, are **in charge of the Revenue Agency**.
- For 2011, taxpayers will receive back 55% of money spent, **in ten years**.
- **The 55% bonus , due at December 31, 2012, could be extended to June 30, 2013, but with a reduced rate of deduction to 50% (updated June 8, 2012)**

- **Receiving and validation** of documents sent by users stating the realized works.
- **Providing information and technical consulting** to end-users, professional associations and enterprises about incentives set up by the Finance Act 2007.
- **Reporting** the Authorities about costs and results of the incentives.

ENEA commitments



- An internet site with f.a.q. and a consulting service by e-mail (*up to 80,000 questions have been promptly answered in four years*) for technical matters, instructions for use and sending documents:
<http://efficienzaenergetica.acs.enea.it>
- A toll free phone number info and consulting:
800 589090
- Attending training courses, workshops, media meetings

ENEA **Efficienza Energetica**

Ministero dello Sviluppo Economico

Questo sito è dedicato all'efficienza energetica e, in particolare, agli incentivi del 55%. Sei arrivato nel posto giusto se vuoi...

- ...sapere cosa prescrivono le ultime Finanziarie
- ...consultare i decreti e tutta la normativa
- ...dare un'occhiata alle nostre pubblicazioni
- ...un vademecum e le guide per i lavori incentivati
- ...un consiglio per gli acquisti
- ...alcuni esempi di calcolo per i tecnici
- ...leggere le faq
- ...sapere come contattarci
- ...inviare i documenti all'ENEA

IN EVIDENZA

Seconda Conferenza Nazionale sulle Rinnovabili Termiche
a cura degli Amici della Terra - Roma, 19-20 aprile 2011 - [Programma e iscrizione](#)

Campagna "Il nostro lavoro per il tuo lavoro!". Grazie a tutti quelli che hanno dato la loro disponibilità e manifestato interesse per sponsorizzare la nostra attività e grazie anche a coloro che ci hanno espresso il loro sostegno e la loro solidarietà.

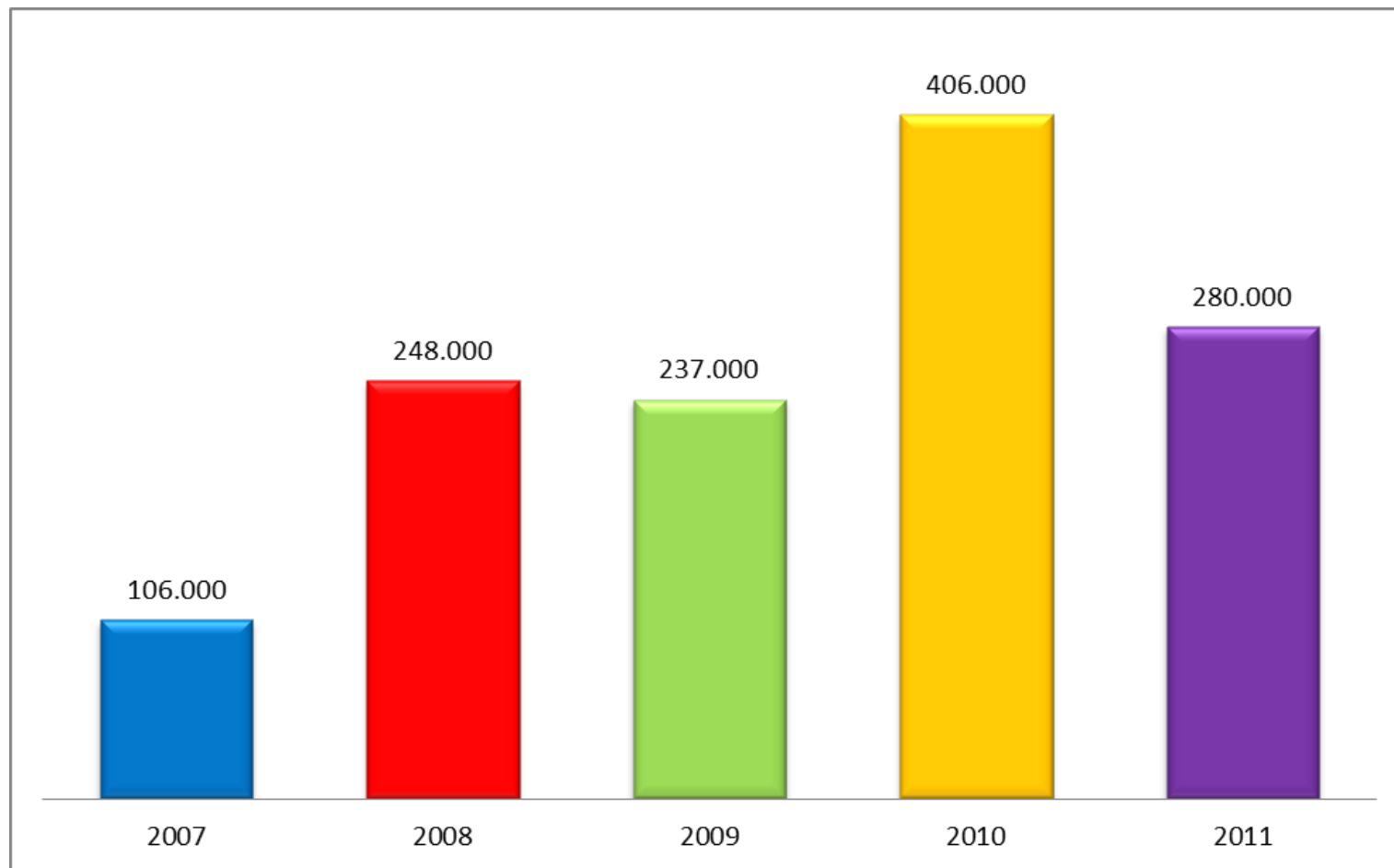
© 2007-2011 ENEA - Sito informativo sulle detrazioni fiscali del 55% a cura di Giampaolo Valentini
Ultimo aggiornamento: 11 aprile 2011 - Tutti i diritti riservati

Some numbers



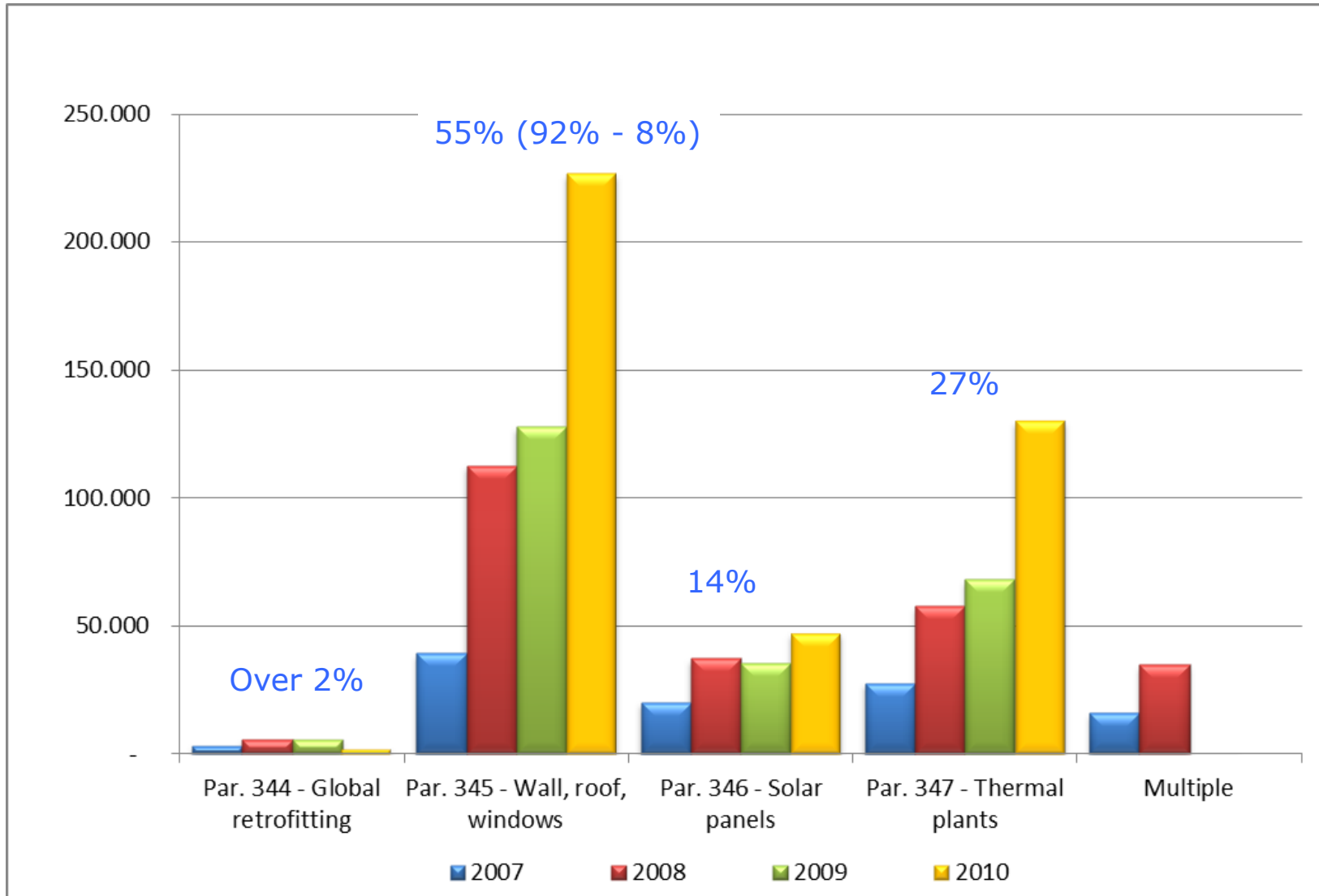
- Website <http://efficienzaenergetica.acs.enea.it>
120,000 visitors each month (as average).
- Phone 800 589090
600 phone calls received each day (as average).
- ENEA Energy Efficiency team manages the whole campaign:
3 people fulltime + 2 people halftime.

Number of performed works

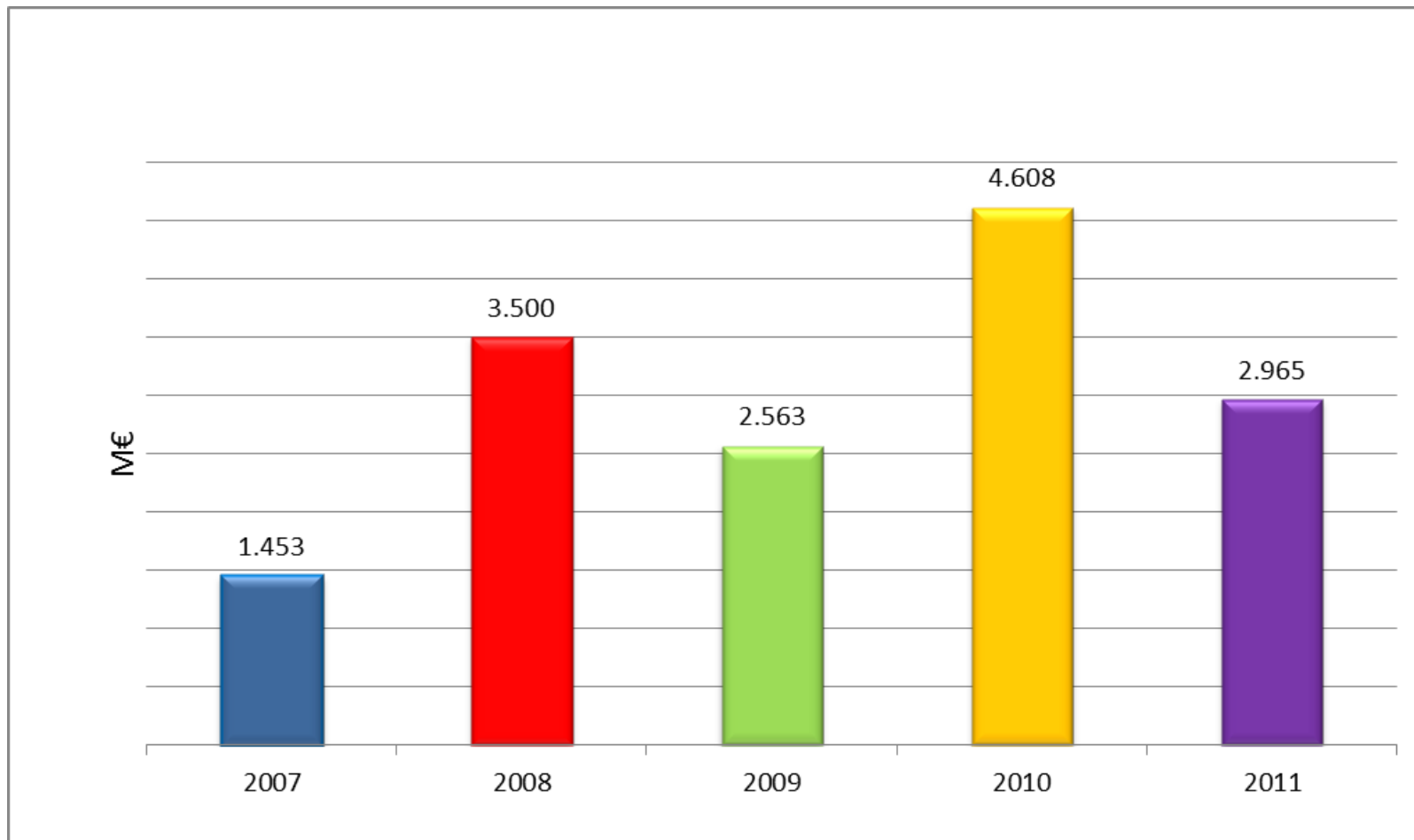


2007 - 2011: 1,300 Million works

Number of works by type

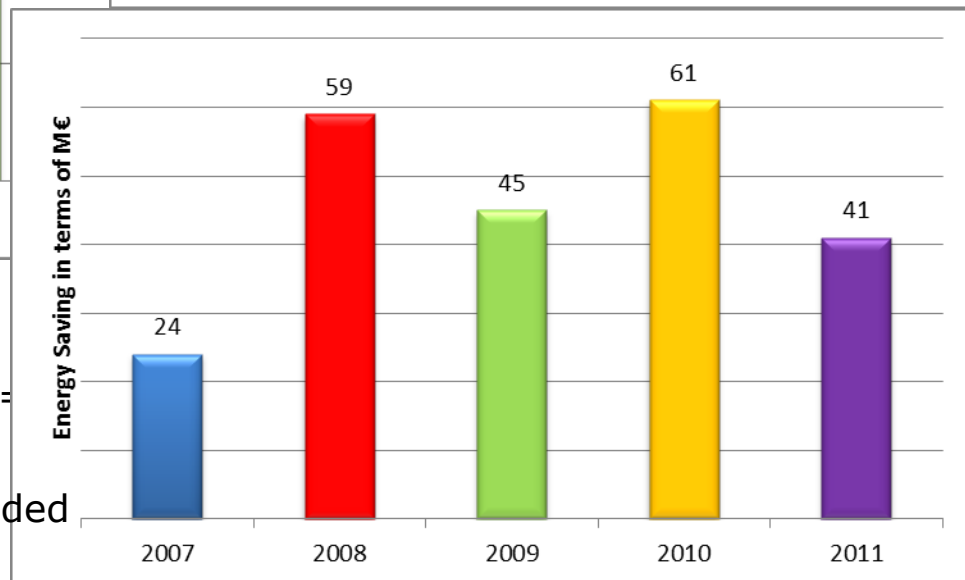
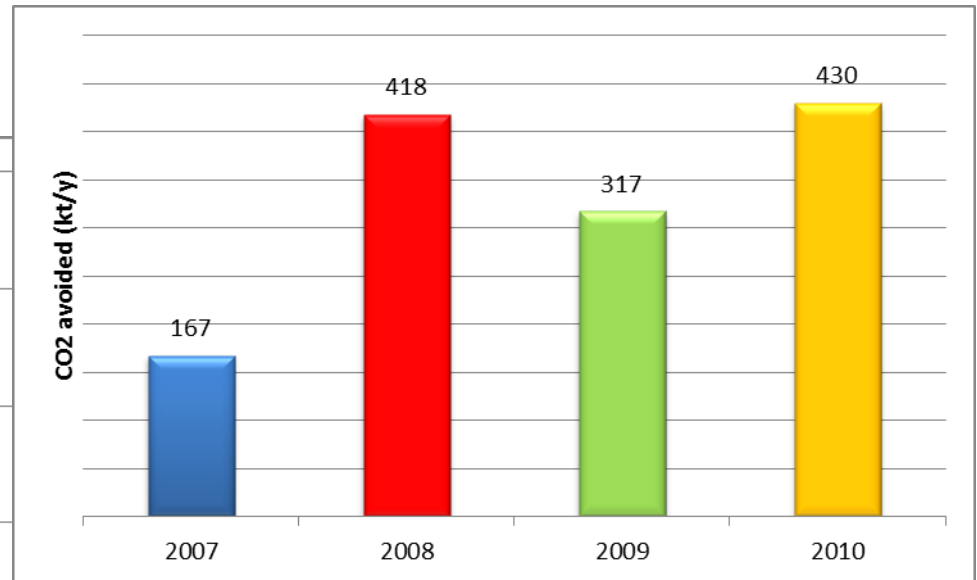
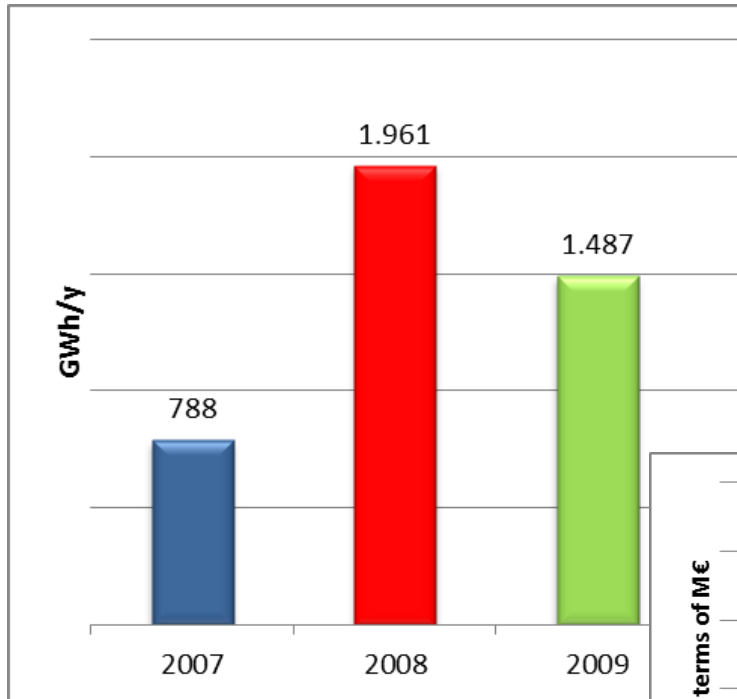


Performed investments (M€)



2007 – 2011: 15.000 Million €

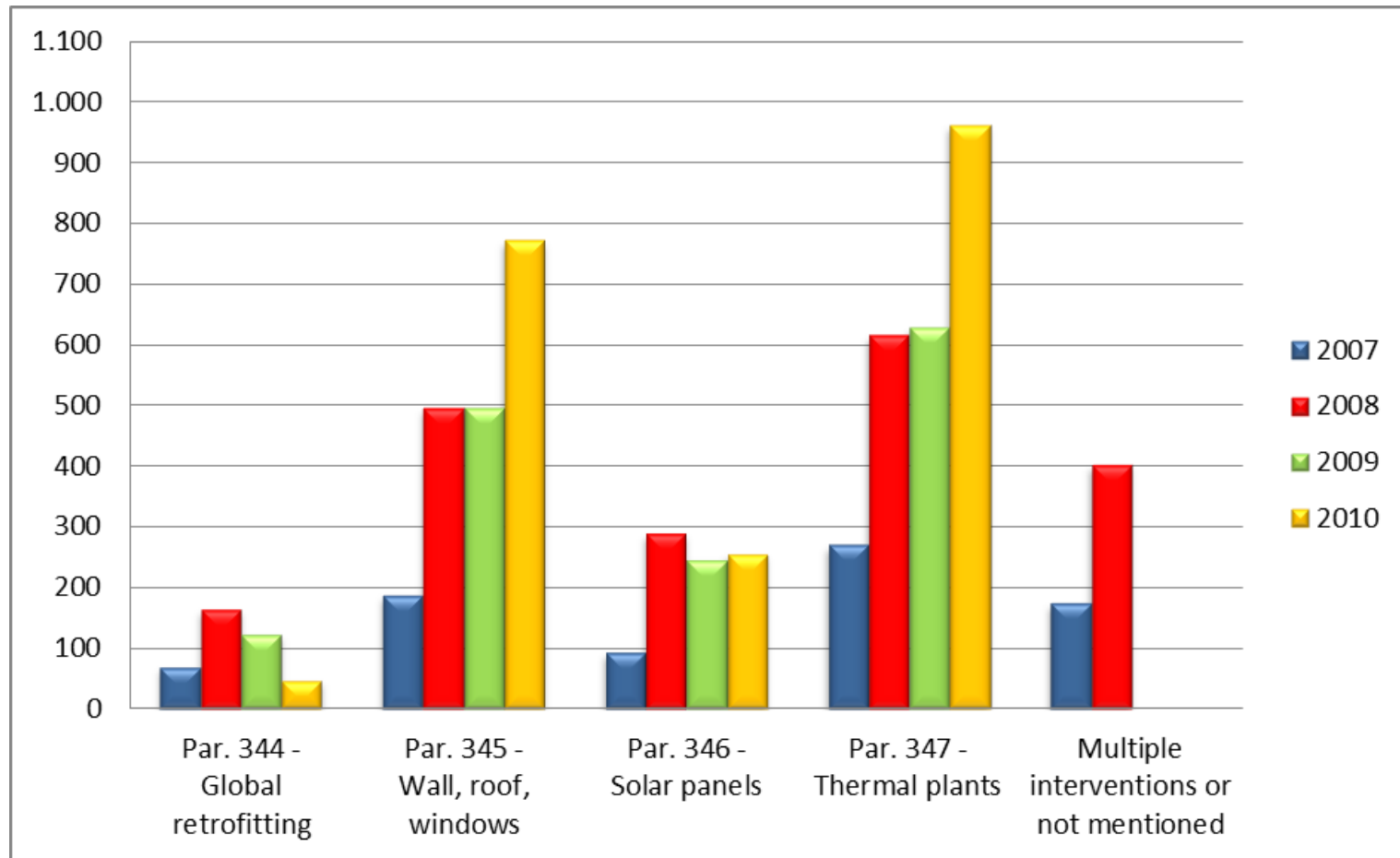
Energy Saving during 2007 - 2011



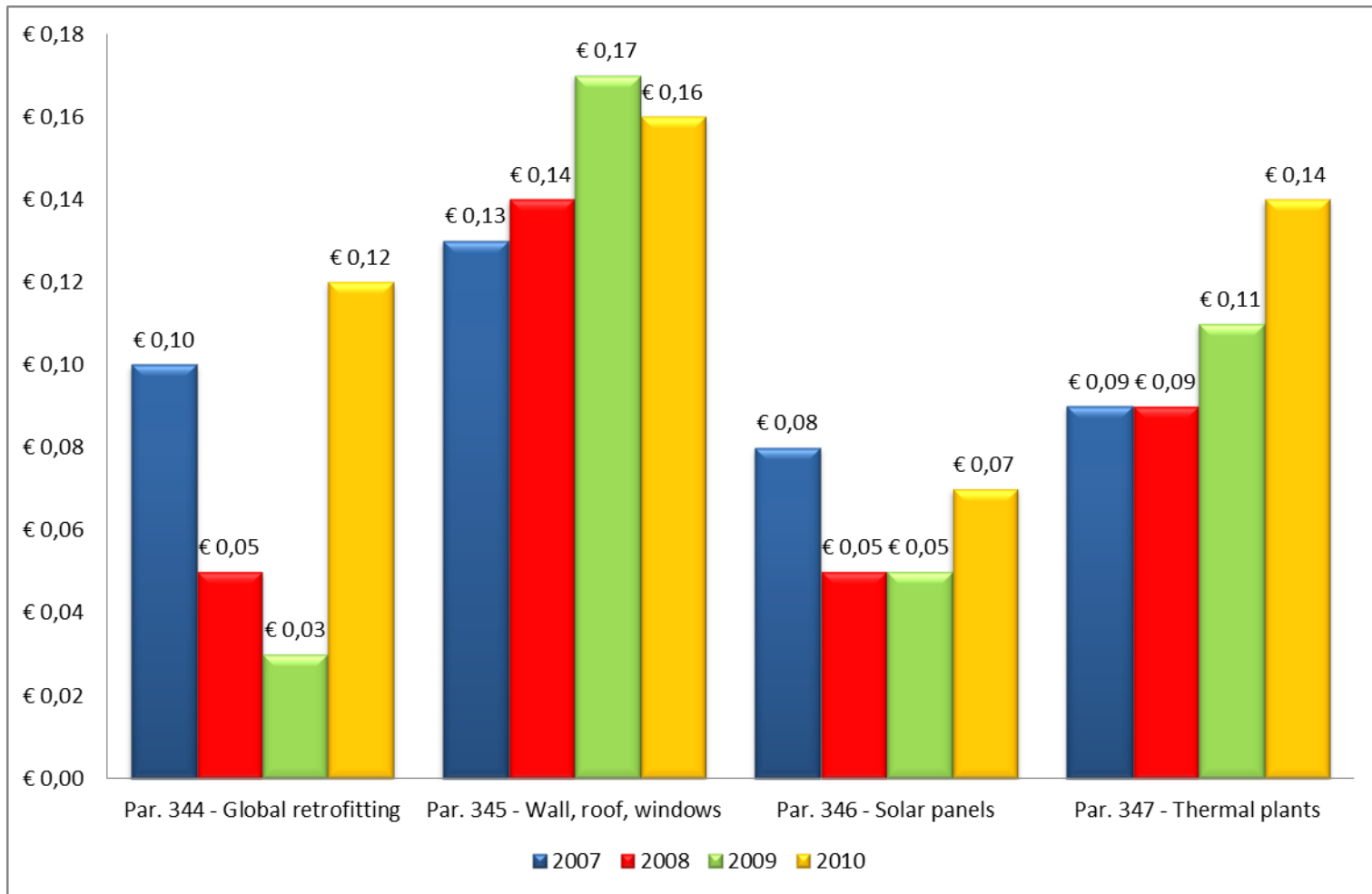
1 toe saved = €350 -> 1 GWht =

Tot. 7600 GWh - 1.6 Mt CO₂ avoided

Energy saving in four years (GWh/y)



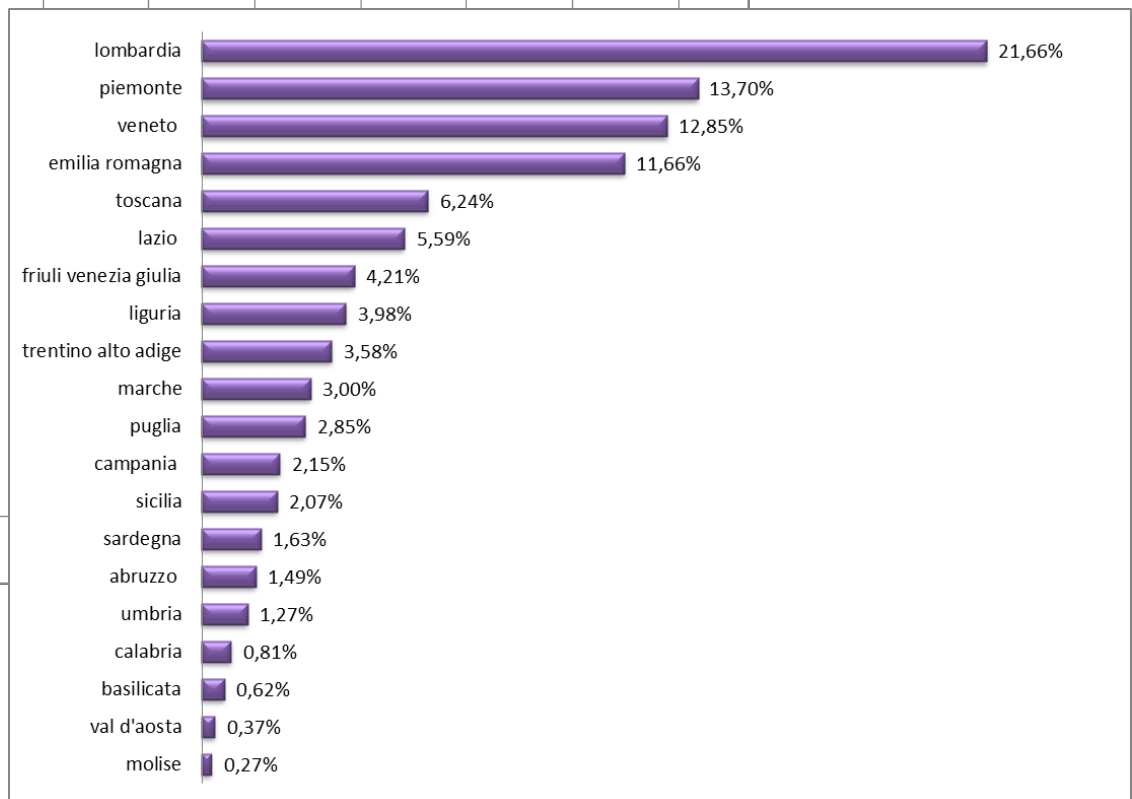
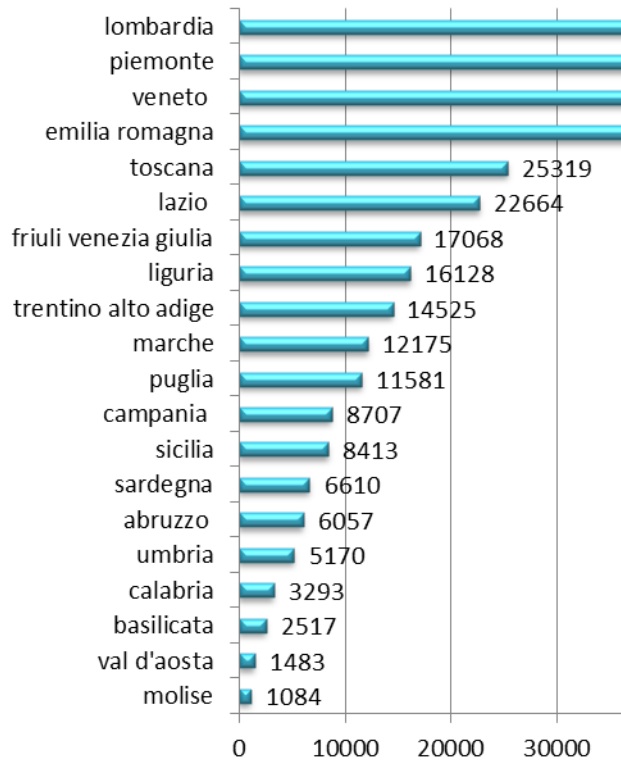
Average cost of a saved kWh in four-year period 2007-2010*



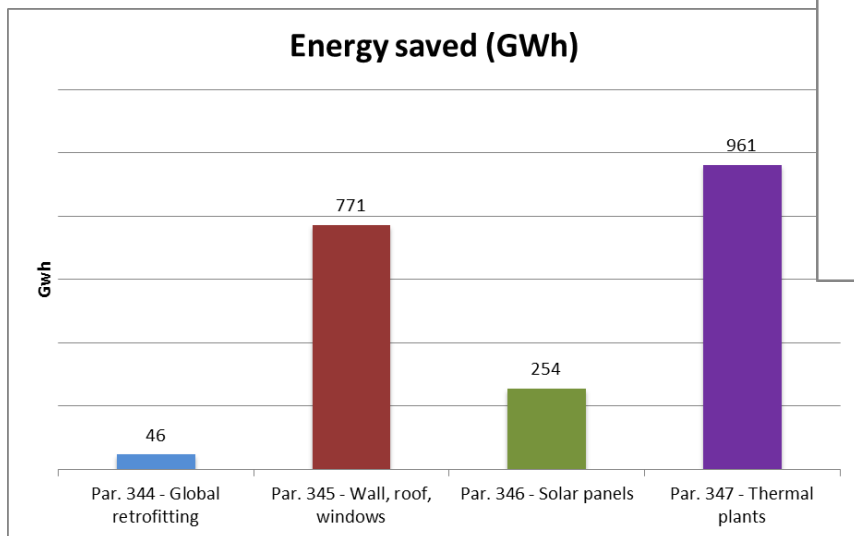
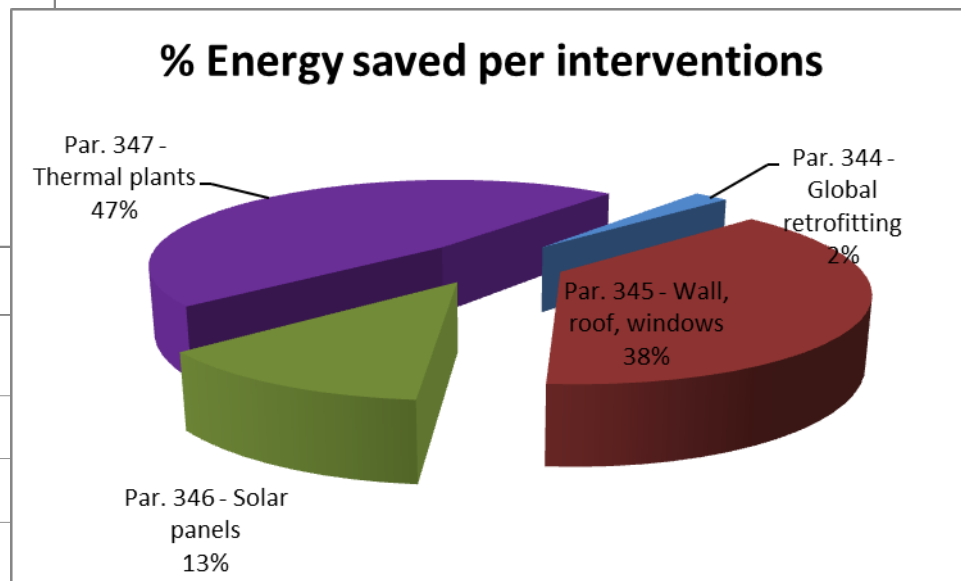
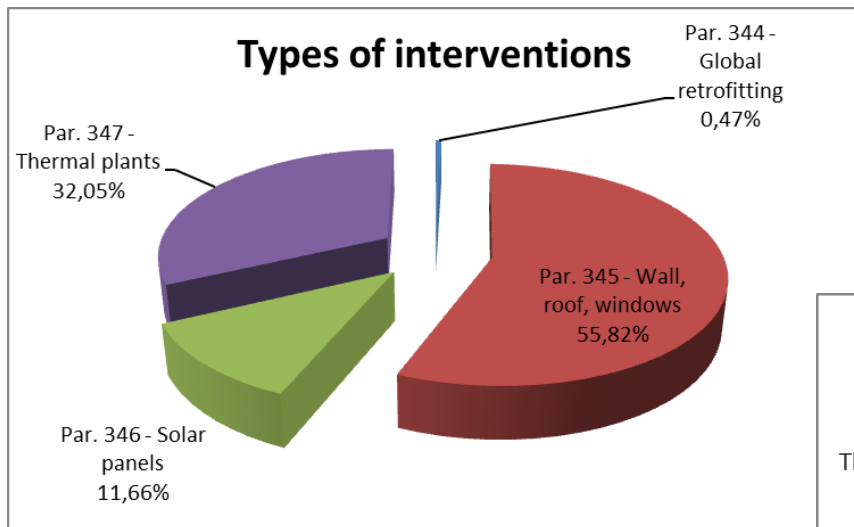
* considering the useful lifetime of plants

Results 2010: documents sent/region

405.600 requests sent



types of work and respective saving (GWh)



Costs and benefits to 2015 of interventions performed from 2007 to 2010

Source: CRESME – MISE – ENEA Report 2010

Campaign benefits

Environmental and socioeconomic returns

1. Reduction of CO₂ emissions
2. Support to production of sustainable materials and plants
3. Support to employment
4. Support to technical innovation
5. Increase of owners' comfort
6. Boost to the supply of mixed energy

Pay back ¹

3.1 bln €
(global saving on energy bill)²

3.25 bln €
(added fiscal revenue)³

4.3 bln €
(added building value)⁴

Investment cost

11.1
billions €

of which
IN DEDUCTION
(failed fiscal revenue)

6.1
billions €

¹ Supposing tax remission of 55% for interventions performed from 2007 to 2010

² Saving 2007 x 9 years + sav. 2008 x 8 + sav. 2009 x 7 + sav. 2010 x 6

³ IVA, IRES, IRPEF taxation, increase of purchasing power

⁴ Increase of income from new value of requalified real estate

Strong and weak points



Strong:

- Great public acceptance: 1,300,000 citizens performed energy saving works in 5 years.
- Big results in terms of energy and GHG saved: respectively about 7,800 GWh/y and 1,650 kt/y (corresponding to the energy demand of a 600,000 people city).
- Development of a green economy, creation of new jobs, contraction of concealed labour, support to new technologies, increase of State revenues.

Weak:

- High cost for missing State incomes.
- Poor information/training to public and professionals due to lack of resources.

The best solution for the future



A mix of measures:

- **modulating** rates of deduction according to the work performed;
- **identifying** products/plants to be promoted referring to their expected results;
- **strengthening** Government tasks due to international treaties;
- **improving** the information service & assistance to users and business operators.

Thanks for your kind attention!



-55%



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