

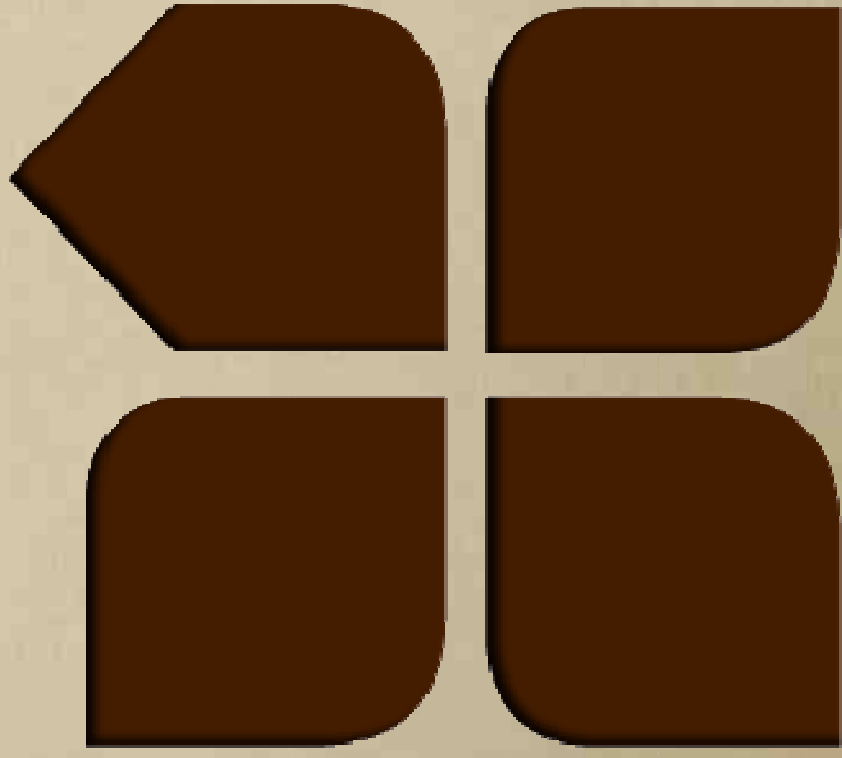




ANNEX 2 Best practice Identified and transferred

Section	Indication of content
1 Title of the best practice	ECOABITA
2 Precise theme/issue tackled by the practice	The problem to be addressed was to give citizens a valuable instrument to assess their home efficiency and in order to implement of the EPBD.
3 Objectives of the best practice	<p>To rise awareness on the house consume.</p> <p>To rise awareness among general public</p> <ul style="list-style-type: none"> • To implement energy saving actions • To implement political framework • To reduce buildings energy consumption and to improve the energy performance of buildings
4 Location	<ul style="list-style-type: none"> - Italy - Emilia Romagna Region
5 Detailed description of the best practice	<p>Acer Reggio Emilia together with the Province and the Municipality of Reggio Emilia promoted a certification system under regional supervision in order to promote good practice on energy housing efficiency.</p> <p>The system developed was able to move a relative market sector, a training activity for professionals and an expo a national level (ECOCASA).</p>
6 Evaluation	<p>The experience of ECOABITA has been extremely positive both for our citizens, that the public authorities for productive activities in the area.</p> <p><i>Success factors</i> Have all involved parties of the supply chain, have created a system that moves</p>

	<p>the market, having dealt with an operational requirement in law occurring in advance</p> <p><i>Demonstrated results</i> n. 237 certificates issued with ECOABITA's system</p> <p><i>Difficulties encountered</i> The creation of a complex management structure</p>
7 Lessons learnt from the best practice	<p>The experience shows how the commitment of main stakeholders can really pave the way towards sustainable development activities, moreover the development of a certification articulated system with the involvement of private sector can be a driver to change habit.</p>
8 Contact information	 <p>ACER Reggio Emilia Energy office Ing. Alessandro Viglioli e-mail: alessandro.viglioli@acer.re.it website: www.acer.re.it</p>  <p>website: www.ecoabita.it/</p>
9 Other possible interesting information	- Attached ECOABITA presentation
10. Best practice transferred	<p>At today 309 ECOABITA Certificators 42 public authorities involved</p>



ecobibita

Ecoabita

- Ecoabita is the whole of administrative measures, incentives, technical specifications, communication campaigns, and training at all levels, that is allowing now the taking off of the 2002/91/CE Directive (Energy performance of Buildings) on a large scale on the Mediterranean Area.
- The high levels of energy consumption have by now proved to be one of the major causes of the climate change. As the EU often stresses, there is wide room both for institutional and private actors to improve energy efficiency, especially in private and public buildings.



Project history (1/4)

- Implementation of 2002/91/CE means reduction of energy consumption and atmospheric pollution, reduction of domestic energy bill, opportunity of economic development.
- On this wake, and also in respect of the European Directive 2002/91/CE on the energy performance of buildings, and implementing laws and regulations (e.g.: Emilia-Romagna Regional Law n. 26, 23rd December 2004), the Province of Reggio Emilia, the Municipality of Reggio Emilia, the Regional Government of Emilia Romagna, and ACER (public company managing the popular residential building estate), **reached local agreement** in November 2005 to set up and test on the territory all the measures for the implementation of the 2002/91/CE Directive.



Project history (2/4)

- In July 2006, after having received formal sponsorship by the Ministry of Economic Development, the whole of measures were ready to be discussed with different groups of interests: enterprises and SMEs representatives, main gas and electricity supplier, consumers, etc. To obtain the widest approval amongst all the involved subject was the key factor for the political level to support the change.
- The commitment of public authorities to create the necessary demand for low consumption houses, and so to boost the market by means of a massive communication campaign, training for designers, building contractors and civil servants, has been extremely important.
- Building contractors have become aware of the Energy Certification of Building as an economic opportunity, and not just a duty.



Project history (3/4)

- The ECOABITA incentives scheme applies both to new and existing houses, and foresees economic support in different degrees, depending on the type of new construction or retrofitting.
- This demanding economic effort is partly supported by obtaining avoided CO2 credits and selling them to the main gas supplier, or negotiating them on the CO2 market. Also, the White Certificates scheme is used.



Project history (3/4)

Interventi di Nuova Costruzione, Demolizione con Ricostruzione ed Ampliamenti

Per accedere agli incentivi, sarà obbligatorio ottemperare ai requisiti prestazionali seguenti:

1. Efficienza Energetica
2. Comfort estivo
3. Risparmio idrico

A seconda della classe energetica di appartenenza dell'edificio, si individuano i seguenti incentivi:

	Scorporo delle murature perimetrali dal calcolo della Superficie Utile	Bonus di Superficie Utile		
		+1%	+3%	+5%
Classe C & 2+3	X			
Classe B & 2+3	X	X		
Classe A & 2+3	X		X	
Classe A+ & 2+3	X			X

Project history (4/4)

- On February 2007, 30 municipalities accounting for more than 75% of Province of Reggio Emilia inhabitants, had joined the Ecoabita. Different municipalities from Province of Modena and Parma (Neighbour Provinces, with 1.100.000 inhabitants ca.) have also join the project in the first months of 2008.
- By March 2008 the test period over the territory of Reggio Emilia was accomplished, and the Regional Government passed a law concerning Energy Certification of Buildings, which is going to affect both new and existing buildings (800.000 buildings and 4.000.000 inhabitants), also based on the results obtained by Ecoabita.



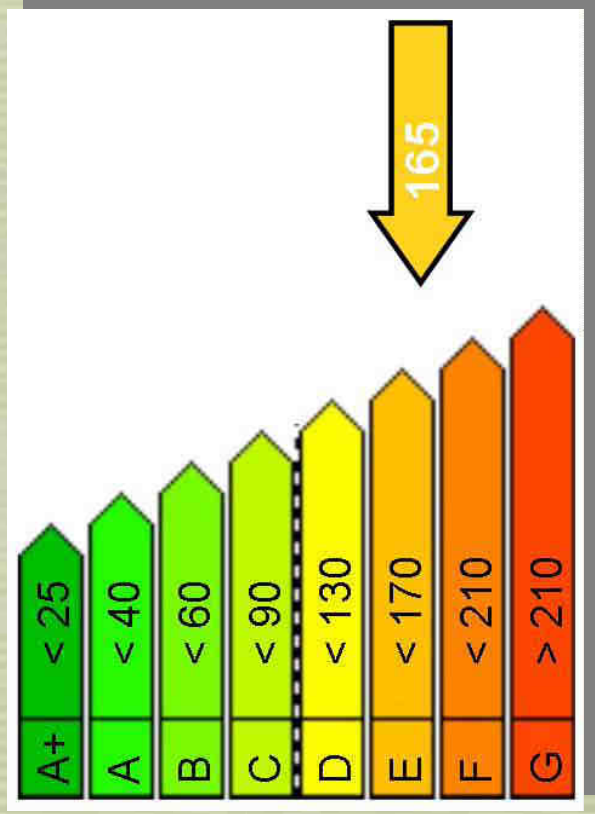
Figures

- On December 2008, almost 700 new houses, accounting for nearly 100% of new constructions in the municipality of Reggio Emilia, have been designed and built according to Ecoabita standards inhabitants.
- With respect to existing buildings, Ecoabita compliant buildings allow to save up to:
 - 46% in terms of CO2 emissions
 - 60% in terms of energy



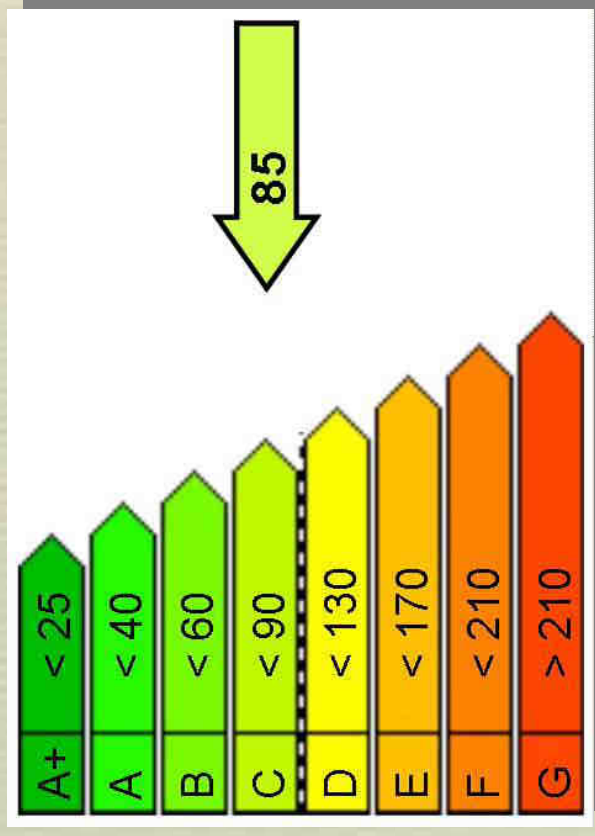
Figures

- Thanks to local and national incentive schemes, more than 400 existing houses have been retrofitted, with a huge energy saving potential if the project is carried on up to 2020:



Today

Total consumption for civil sector in Reggio Emilia Province: 315.000 Toe / y
Related CO₂ Emission: 830.000 Ton CO₂ / y



2020

Total energy saving: 155.000 Toe / y
CO₂ reduction: 424.000 Ton CO₂ / y
Estimated Economic benefit: 80 -100 MEur/y



Existing buildings

▲ Capital account – City Of Reggio Emilia 2007: 60.000 € (15%)

Building Intervent:

- isolation of the vertical surfaces
- substitution of simple glasses with double glasses in windows
- installation of solar panels



Investment for 733.000 €

- 413.000 € government deductions in 3 years (55%)
- 220.000 € to load of the applicants (30%)



White certificate (TEE)



Ecocasa – the fair

- Enterprises Association set up an energy saving technologies fair in Reggio Emilia called Ecocasa in 2007 and 2008 with more than 31.000 visitors.



- The 2009 edition of Ecocasa will be supported by Italian Ministry Environment as a local SEE event.



Communication campaign

- Five communication campaigns have been realized up to now, by means of newspaper, radio, TV, kit for schools, citizens, designers.



- (See www.ecoabita.it for the complete communication campaign)



BEL COLPO!

con la certificazione ECOABITA

tagli le spese del **50%**



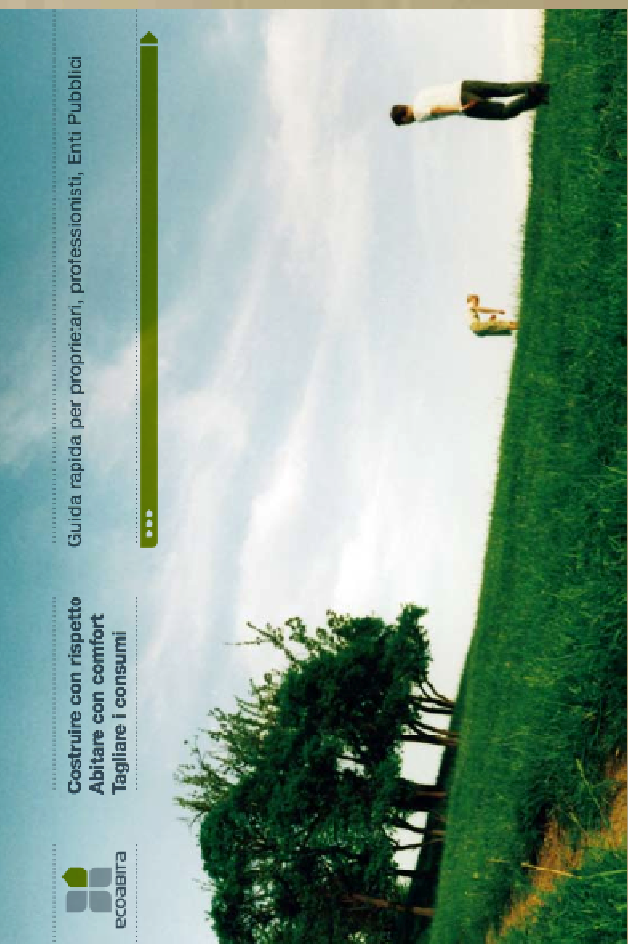
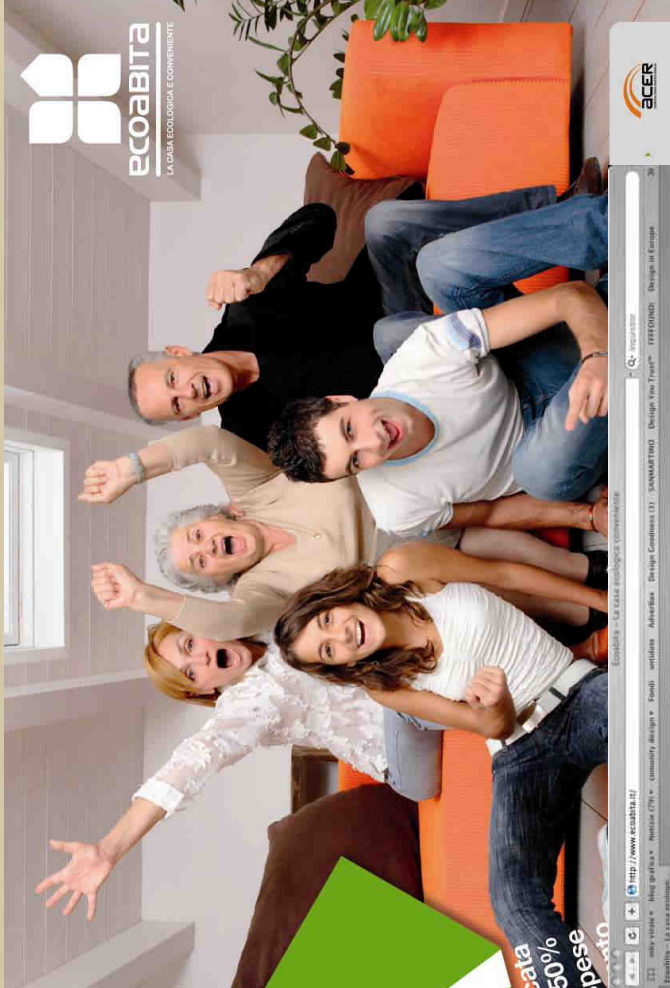
www.ecoabita.it



La vostra casa in serie

KA

Un'abitazione certificata
risparmia oltre il 50%
delle spese
il riscaldamento



Costruire con rispetto
Abitare con comfort
Tagliare i consumi

Guida rapida per proprietari, professionisti, Enti Pubblici

Guardaci in casa NE SAREMO FELICI

Scopri la casa certificata alla Fiera
EcoCasa dal 28/2 al 2/3
www.ecoabita.it - tel. 0522.456800

LA CASA ECOLOGICA IS ECONOMICA

Realizzata e nel rispetto della Provincia di Reggio Emilia, in collaborazione con la Regione Emilia Romagna, il Comune di Reggio Emilia ACER, per la diffusione della certificazione ecologica dopo 40000.

Iniziativa mirata ad edifici che consentano in ogni caso un notevole risparmio energetico, una target ad un certificato, in grado di informare il consumatore sul risparmio energetico dell'edificio, al fine di consentire un'abitazione (o più) di gestione per i mutamenti climatici.

LA CASA CERTIFICATA E' UN'ABITAZIONE ALTA ECOLOGICITA' E ALTA ECONOMIA (CASA OTTIMERA LA CERTIFICAZIONE)

20/02/16 • Conferenza inaugurativa sul risparmio energetico 2016/2017

01/03/16 • Presentazione al Parlamento il Programma Nazionale

Una casa ECOABITA (certificata) per il miglioramento dell'efficienza energetica degli edifici e una riduzione di almeno il 50% dei consumi energetici.

La certificazione ECOABITA (certificata) è un marchio di qualità che garantisce al consumatore un risparmio energetico del 50% e un risparmio del 50% sui costi di gestione.

CERTIFICAZIONE ECOABITA

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Ecoabita - examples



Lotto 3#



Lotto 39



Lotto 40



Casa Pieve

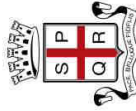


Casabova

The certificate



ATTESTATO DI CERTIFICAZIONE ENERGETICA ECOABITA



Conforme all'attestato di qualificazione energetica di cui al D.M. 19 Febbraio 2007 e al D.Lgs. 192/05 e s.m.i., nonché all'attestato di certificazione energetica di cui all'Atto di indirizzo e coordinamento sui requisiti di rendimento energetico e sulle procedure di certificazione energetica degli edifici della Regione Emilia Romagna.

1. INFORMAZIONI GENERALI

Codice Certificato	Data di emissione	Data di scadenza	Riqualificazione energetica	
Nuova costruzione	Passaggio di proprietà			
Riferimenti catastali	Codice catastale Comune	Foglio	Mappale	Subalterno
Permessi di costruire/DIA	PS	PS	PG	
Ubicazione dell'edificio	Via/piazza/largo	Comune	Provincia	

1.1 EDIFICIO

Tipologia edilizia	Foto dell'edificio			
Tipologia costruttiva				
Anno di costruzione	Numero di unità immobiliari riscaldate			
Volume lordo/riscaldato V (m ³)	Superficie utile (m ²)			
Superficie disperdente S (m ²)	Zona climatica (GG)			
Rapporto S/V	Destinazione d'uso			

1.2 IMPIANTI (2)

Riscaldamento	Anno di installazione	Tipologia
	Potenza nominale (kW)	Combustibile
	Tipologia terminali di erogazione	Tipologia di distribuzione
Acqua calda sanitaria	Tipologia di regolazione	Tipologia del generatore
	Anno di installazione	Tipologia
	Potenza nominale (kW)	Combustibile
Raffrescamento	Anno di installazione	Tipologia
	Potenza nominale (kW)	Combustibile
Fonti rinnovabili	Anno di installazione	Tipologia
	Energia annuale prodotta (kWh/kWh)	

1.3 PROPRIETA'

1.4 PROGETTAZIONE	
Progettista/i architettonico	Telefono/e-mail
Inirizzo	
Progettista/i impianti	Telefono/e-mail
Inirizzo	
1.5 COSTRUZIONE	
Costruttore	Telefono/e-mail
Inirizzo	
Direttore/i lavori	Telefono/e-mail
Inirizzo	

2. CLASSIFICAZIONE

EDIFICIO DI CLASSE (3)	
X	

2.1 Metodologia di calcolo adottata

3-QUALITA' INVOLUCRO (RAFFRESCAMENTO) (4)

4. GRAFICO DELLE PRESTAZIONI ENERGETICHE GLOBALE E PARZIALI (5)

FABBISOGNO ENERGETICO PER CLIMATIZZAZIONE INVERNALE



LA FABBISOGNO ENERGETICO PER LA PRODUZIONE ACQUA CALDA SANITARIA



FABBISOGNO COMPLESSIVO



International standards

- The Ecoabita Guidelines have been verified by Bureau Veritas so to obtain the compliancy with the international standards ISO 14064-2.
- CO2 emission reduction obtained within the Ecoabita Guidelines allows the sale of CO2 reduction credits.



Awards and next steps

- Having the project proved to be successful with the winter heating issue, problems related to summer cooling of buildings are now being faced on a large scale in high density urban area for the first time.
- The project has been presented at european level in Sevilla 2007 (Fifth European Conference on Sustainable Cities and Towns), Freiburg 2007 (Renewables Freiburg), Bruxelles 2008 (EU Sustainable Energy Week), and has been nominated as one of the best three european project in the category “diffusion and dissemination” during the EU SEW 2009.





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