

Why E.F.A. Project®

More than 40 % of the European energy requirement is attributable to buildings. Studies and researches proved the building sector to have a "high energy saving potential". This appears more evident if compared with the industrial sector where a significant progress has been achieved during the last 10 years, especially thanks to the co-generation technique. Studies and researches demonstrated how the percent of energy saving in buildings in our region may vary in the range of 35 to 50%, depending on the actual level of obsolescence of structures and thermal, mechanical and electrical installations. All this stresses how a large amount of work on building structures and on the related thermal and electrical installations, is foreseeable in the next future in terms of energy saving, with an economic advantage and an increase in labour supply. The main feature common to the interventions in the residential building is that **the funding needed to save energy**, evaluated through a specific study on the system, named *Energetic Diagnosis*, **is paid back by the obtained savings**. "Self paying actions" are those actions whose financial cost is paid back starting from the very first instalment, thanks to the achieved saving of energy. This in the hypothesis that the financial support could be provided to the users, as a loan. The economic success of such actions is guaranteed by a payback time not longer than 4, 5 years.

In our report up until now we have demonstrated how:

- ✓ the building sector has an high contribution of the European energy requirements;
- ✓ in an high percentage of this buildings, is possible to put in act actions, aimed to reduce energy consumption. The main feature of this action (estimated by a specific study of the system called Energetic Diagnosis) is that the funding needed to reduce energy, consumption (as f.e. replacing the water heater, or improving the regulation system) is paid back by the obtained savings.

Thanks to the work performed in this field, CREA drew the conclusion that the main contribution of Public Administrations should consist in **providing technical guidelines** on how to pursue and to put in practices the energy saving actions.

Self paying actions clearly demonstrate that the main role of the Public Administration would be that of **providing a sort of specialist technical advice to the users** rather than a financial support.

In detail this advisory role should inform the user about:

- ✓ the energy status of his plant-building system (Energy Diagnosis);
- ✓ the energy saving potential achievable by adopting modern technological solutions;
- ✓ the total cost of the energy actions, and the investment payback time.

All this actions should be included in a sort of specialist technical advise for the user, called "The Energy Certification of Buildings"

THE E.F.A. PROJECT®



E.F.A. Energy for Africa®



C.R.E.A.

Piazza S. Matteo, 11 - 55100 Lucca ITALY
P.IVA 01894830460
Tel.: +39 0583 463234 - Fax: +39 0583 306020
E-mail: mail@studienergetici.it - www.studienergetici.it

C.R.E.A.
ENERGY
SAVING AND
ENVIRONMENTAL
QUALITY
RESEARCH
CENTRE



What is the E.F.A. Project®

The E.F.A. Project, Energy for Africa, is a energetic service that a corporate body or an institution can offer to the citizens with the purpose to contain the energetic consumptions and the issues of pollutants of thermal and air conditioning plants in the civil, tertiary, and industrial sector. Such service is finalized to the realization of a **humanitarian project in Africa** and to whom sticks to the project, the promoting institution offers a **free energetic consulting service** of a highly specialized technician, in degree to point out, subsequently to an energetic diagnosis of the building and with reference to the residence, condominium, factory, school etc. of the consumer, a series of interventions and measures able to save energy. This consultation concerns the thermal and electric plant and consists in a skill in which the interventions are pointed out to realize, the esteemed costs, a respect of the achievable saving and the time of return of the investment.

The institution besides, through the banking institute of own trust, offers the possibility to benefit of a mutual banking to facilitated rate, for the realization of the jobs. The consumer that sticks to the initiative, on the other side, commit itself, once realized the jobs, to devolve to the institution, for the realization of the humanitarian project, **the economic amount equal to the energetic saving achieved in the first year of activity** of the plant and due to the measures of energetic saving undertaken and recommended in the effected energetic diagnosis. Such amount will be devolved for the realization of a humanitarian project in Africa.

What the advantages are for the consumer

The consumer can profit, to free title, of a specialistic energetic consultation in degree to furnish indications on the interventions to realize for saving energy. Such consultation shapes him as a real diagnosis energetic able to point out the presumed cost of the interventions, the time of return of the investment and the anticipated saving. Together to the benefit of a mutual banking to facilitated rate, the consumer, removed the economic amount equal to the saving achieved in the first year, **can profit, in the following years of the achieved saving**, contributing, in before person to the safeguard of the environment and, contemporarily to the realization of a humanitarian project . To those people that, subsequently to the editing of the skill, don't intend to realize the jobs however, the possibility will be given to economically contribute, on voluntary base, to the realization of the humanitarian project.

What the obtainable benefits are to

Contribute to the energetic saving and the safeguard of the environment and, contemporarily, to economically finance the realization of an humanitarian project in Africa. Such project is identified therefore with a double highly humanitarian finality. The typology of the intervention would result, for a good part, as a **self paying action**; through the first instalment of the achievable energetic saving, it would be in fact possible to repay the necessary investment of technical professionalism to the accomplishment of the energetic diagnosis, and to finance the humanitarian project.

