



Workshop on Energy Management System

*The Italian energy managers network has 15
years of experience.*

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He worked since 1961 in the energy sector research and demonstration.

Since 1979 he is involved in technology transfer from nuclear research to traditional sector (e.g. textile, ceramic tile, food processing).

Since 1991 he manages the Italian network of Responsible for Energy efficiency.



FIRST TENTATIVE

The law 308 of 1982 imposed to large industrial consumers, within the limit of more than 10.000 toe/year, to nominate each year a person as Responsible for the rational use of energy and to communicate the name to the Ministry.

About 600 names arrived; nobody answered and in few years the question was forgotten.



THE FORMAL APPOINTMENT

The law 10 of 1991 extended the mandatory appointment of such Responsible also to civil (residential and services) and to transportation sectors (both for consumptions of more than 1000 toe/year). The duties of the Responsible were indicated as to prepare an energy accounting scheme and to present energy efficiency proposals to the direction. Heavy fines were imposed to the companies failing to make the annual communication. No forecast of accompany measures.



THE BEGINNING OF THE NETWORK

No measures were prepared for avoiding to repeat the previous fiasco. The Italian Federation for the Rational use of Energy, F.I.R.E., an association of energy management experts, proposed itself to the Ministry to process the documentation, to build a data base, to stimulate companies and administrations to the application of the law and to promote the qualification of the responsible. In the 1992 and 1993 two explanation documents were emitted for formalizing the role of F.I.R.E. in collecting all the documents and for solving the various problems of interpretation and classification, arisen in the frame of building the data base.



HOW MANY R.U.E. RESPONSIBLES WERE NOMINATED

Due also to the continuous action of F.I.R.E. , about 2000 organizations in Italy nominate about 2500 R.U.E. responsible (there are also local responsible) every year. Only direct energy consumptions are considered for the obligation; the energy consumption of each single enterprise or administration is a reserved data, so the number of absent bodies may be only evaluated by comparison. The central administration, for bureaucratic and political reasons, doesn't consider the possibility to apply the fines indicated by the law.



R.U.E. RESPONSIBLE OR ENERGY MANAGER?

Enterprises and administrations may have, or not, a central responsible for energy uses, in function of their operative structure.

The role of R.U.E. forecast by the law, don't interferes with existing hierarchical structure. This two roles may be covered by the same person, adding a new duty or they may given to two different persons and so, the R.U.E. responsible will support the first.



R.U.E. RESPONSIBLE, RELATION WITH THE STRUCTURE

The R.U.E. responsible may be isolated on energy items, as usual in public administration, so his main job will be to find a referee. The R.U.E. Responsible are usually belonging to the structure which nominated them, in 15% of situation they are external consultants. For better communicating their role all the responsible are calling themselves energy manager, also in homage to the salvific effect of English language.



IMPORTANCE OF NETWORK

After the establishing law of 1991 and documents of 92 and 93, no one single request was presented to the energy managers from central government, also because the responsibility of final energy uses was decentralized to the Region. The network operated by F.I.R.E. was effective in maintaining the interest, in help solving the various role problems, in supporting the growth of a common culture.



... .. follow

One of the main aim of F.I.R.E. is convincing enterprise top managers and public administrators of the utility to have in their structure a terminal connected to a technical competence centre. F.I.R.E. operates the data base, homogenizing the received data, organizing meeting, seminars and has guarantied a service of answering to telephone requests, covering mainly legislative aspects, incentives and energy market rules.



EVOLUTION OF NETWORK COMMUNICATION TOOLS

During the first years of the 90ties the communication tools were mainly paper based, through postage service, for diffusing basic data and give also a sense of physical presence; the set up of the exact addresses was the occasion for understanding a lot on the organizational structure of different companies. F.I.R.E. was sending , as average, 7-8 messages a year, to the energy managers nominated, to universities, industrial associations, Regioni, etc.



INTERNET FOR COST REDUCTION AND UPDATING REQUIREMENT.

At that time the costs of this campaign (personnel and deliverable) was supported by public contribution. In the second part of the 90ties the communication was more and more concentrated on the opening of energy market, this more complex question required to implement a web site <www.fire-italia.it> for information, comments and documents; next we began a quarterly publication <Gestione energia>, partially paid by advertising.



HOW THE NETWORK IS OPERATING TODAY

Since 2000 there are no more public contribution to F.I.R.E. for the operation of the network and the ENEA personnel is gone in pension, so F.I.R.E. had to concentrate his activity on the support of his associated members, about 500. F.I.R.E. is continuing the implementation of the annual data base of the energy managers nominated and the publication of "Gestione energia", only a section of web site, dedicated to large public, have free access while the most professional sections are reserved to F.I.R.E. members.



HOW THE NETWORK IS OPERATING TODAY



Federazione Italiana per l'uso Razionale dell'Energia

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Benvenuti nel sito web della FIRE, dedicato all'uso efficiente dell'energia ed agli energy manager.

I contenuti, in parte riservati ai soci, sono destinati ad energy manager, operatori, professionisti ed esperti in energia.

Se siete studenti delle scuole medie inferiori o privati cittadini allora [cliccate qui!](#)

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11 maggio 2007
Visitatore: 866942
Utenti connessi: 52

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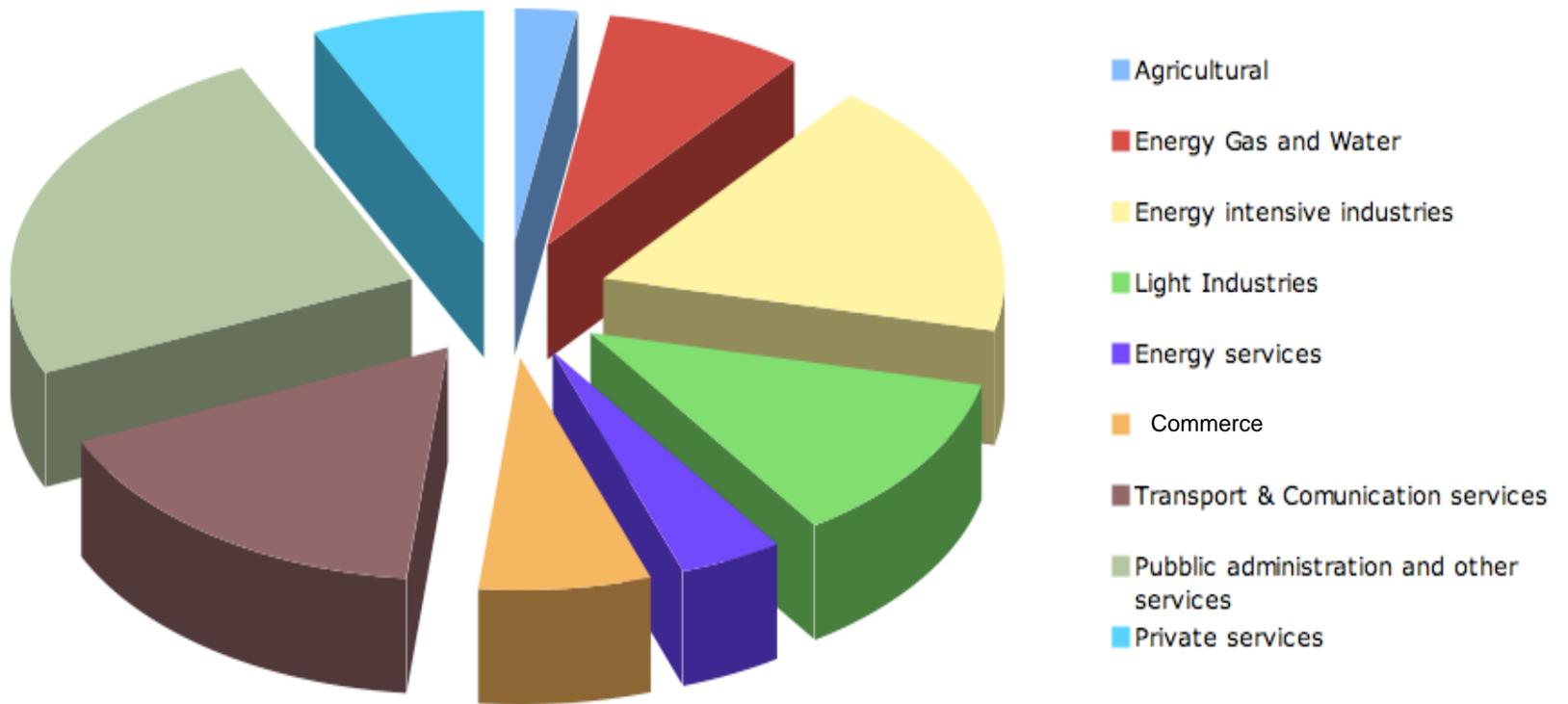
All the communications with energy managers are now based on electronic mail, very cheap tool but with low possibility to check if the desiderate person is really reached. About 300 persons participate every year to a 44 hours intensive course for updating the knowledge of technical operators in the theme of energy management in strict connection with the liberalisation of energy market ant of the constraint of Kyoto protocol.



CARACTERISTICS OF AN EFFECTIVE ENERGY MANAGER

Few economy sectors are energy intensive, like iron and steel, cement or paper production, in these situations the energy manager has a well defined role, he has available service by consultants for very specific questions and it is difficult for a network like the our to provide help.

Responsible nominated in 2005 devided by sector





RESPONSIBLE OF NOT ENERGY INTENSIVE SECTORS

About 75% of responsible nominated belong to sectors where energy is not the core business and the main problem of this person is how to obtain audience from the top management for themes considered marginal. The experience says that, for being effective, the R.U.E. responsible has to be familiar with the direction and to be accustomed to participate to the elaboration of the choices', if he is not enough expert he can use a support. The situation is worse when he is the head of the boilers house, even if really expert, he will not be in degree to enter in the way the colleagues utilize the energy he carefully produces or in the specifications given to the designer of a new building.



MOST FREQUENT USERS OF THE NETWORK

The site of F.I.R.E. had about 350.000 visits during the 2006, probably with a large presence of students and general public. The most frequent contacts, by e-mail and telephone, are originated from professionals and technicians of plant design and construction; they have the duty to elaborate project proposals and executive designs, often to be submitted to the e.m. of large organization.



THE RATE OF EVOLUTION ENERGY SECTOR

The evolution of hardware for energy management is quite slow, while it is fast in the sector of instrumentation and of information technologies, allowing to manage energy uses also in dispersed applications, but it is extremely fast for rules, legislation, fares, fiscal, incentive, finance, so fast that a large majority of energy expert is unable to follow it and they need support for the required continuous updating.



WHICH INFORMATIONS AVAILABLE FROM THE NETWORK ARE MORE RELEVANT

In this period the network has acquired a large visibility as a body with a strong tertiary character and is requested from public bodies to supply a point view taking in to account general application aspects.

On the basis of the opinions collected from the users, we believe that the most relevant information available from the web site are:



... .. MOST RELEVANT INFORMATION

- Updated synthesis of the rules emitted from Regulatory Bodies, Ministries, Fiscal Service, and so on.
- Integrated synthetic presentation of the evolution of energy market rules, since the begin of liberalisation
- A presentation of different technologies and legislative documents whit critical analysis of operative parameters.



THE OPERATOR OF THE NETWORK

The manager of such a type of the network have to have particular characteristic:

- Availability to contact person for understanding the point of view of isolated operator
- A technical bases derived from direct experience, but of enlarged spectrum utilizing exchanged information
- Ability to summarize the political and legislative context and to communicate it to operators in equilibrate way