



HISTORY

Prosiel was established in 2000 as a non-profit-making association bringing together the main players in the electricity chain, with the aim of promoting an awareness of electrical safety and energy savings.

Its roots actually date back a decade before that though: 1989 saw the first Prosiel guide, entitled **Electrical Safety in Condominiums**, designed to help property administrators, designers, installers and builders to ensure people's electrical safety in view of Law 46/90 relating to system safety standards.

Law 46/90 was therefore an opportunity to reverse this trend, as it fixed the professional requisites for specialized workers in this sector and made standard-compliant systems (with an earth connection and residual current circuit breaker) compulsory.

HISTORY

Since then, Prosiel has never abandoned its original mission: to promote and develop a culture of electrical safety in Italy, helping citizens to ensure their own safety.

In 2000, Prosiel published two guides: **Safety in the Home**, aimed at users of domestic electrical systems (not necessarily experts on the subject) and **Comfort and Energy Management**, designed to explain the best choices and behaviour for making the most of the home and increasing the comfort of its occupants.

In 2002, the **1st Electrical Market Report** was published, focusing on the electrical system situation in Italy. The **2nd Annual Report on Electrical Safety**, in 2004, contained a survey carried out by the Demoskopea research institute on a sample of families to demonstrate the electrical safety situation in Italy.

November of that same year was designated the **month of electrical safety** - a project involving a free check-up of the electrical system for homes in Bari and Reggio Emilia.

HISTORY

The **3rd Annual Report on Electrical Safety** came out in 2005. In 2006, Prosiel published an integration to the Electrical Safety in Condominiums. In 2008, the data of the survey commissioned by Prosiel and carried out by Demoskopea, on the **electrical safety situation in Italian homes**, were updated. The latest update was in 2010.

In 2010, Prosiel launched a campaign to promote an awareness of electrical safety - **The Non-Compliant Family** (www.famigliafuorinorma.it), sponsored by the Ministry of Economic Development.

Prosiel made its appearance on Facebook in 2011. In the same year, the new version of the standard CEI 64-8 was approved, classifying domestic electrical systems in three levels. ANIE launched a campaign to spread information about the standard, which mirrors the goals of Prosiel ([www.impiantialivelli.it](http://www impiantialivelli.it)).

In 2012, a video - “The new CEI 64-8 Standard” - was produced and uploaded onto the Prosiel Facebook profile and YouTube

MISSION

Prosiel is a non-profit-making association set up in 2000, and whose members are the leading players in the electrical chain. Its mission is the **promotion of safety and electrical innovation**.

Prosiel therefore aims to:

- **be a point of reference** for the relevant government authorities for the definition of an effective system of regular electrical checks, in order to ensure the safety of buildings and their occupants;
- **help the entire electrical chain to become more virtuous**, promoting a modern electrical culture that encourages the use of the most recent building automation technologies;

MISSION

- **favor the innovation of new electrical systems** to meet the needs of modern life and to guarantee the possibility to adapt to future needs;
- **to promote the updating of existing obsolete systems** so that the owner of the building can take advantage of the benefits of the latest technologies in terms of greater safety and energy efficiency;
- **provide the end user with a greater awareness** of his electrical system, informing him with regards correct use and regular maintenance to keep it in efficient, safe working order.

DOMESTIC ELECTRICAL SAFETY

The electrical system in more than 10 million Italian homes has never been subjected to maintenance and, in 42% of cases, there is no declaration of conformity (the document that should be issued following interventions to modify the electrical system structure).

Result: 12 million Italian homes present safety risks for their occupants.

The Demoskopea research institute carried out a survey on a 500-family sample that represents the Italian situation (surveys carried out in 2004, 2008, 2010).

DOMESTIC ELECTRICAL SAFETY

The survey revealed that:

over **2/3 of the total** number of homes **do not respect the legislation** relating to electrical safety (apart from a few partial or one-off interventions);

13% of homes are **exposed to the risk of fire** due to electrical shortcomings;

52% of electrical systems present **an electrocution risk** due to damaged or deteriorated electrical components;

in **18%** of cases, **no residual current circuit breaker** has been installed.

ITALIAN REGULATIONS

Law 46/90

With the adoption of Law 46/90 in 1990, an efficient and rational system of rules relating to the installation, design and certification of electrical systems was introduced, with the aim of guaranteeing the safe use of electricity.

The main innovations brought in by the legislator (compared with the regulations in place at that time) can be summed up in three main areas:

- the obligation of a qualification for working on systems; this qualification could only be issued if the person **(the entrepreneur or delegated personnel) possessed certain technical/professional requisites;**
- the obligation of the installing company to issue a **declaration of conformity (in accordance with best practice)** when the work was concluded;
- the obligation to **adapt existing systems** to ensure at least some of the minimum safety requirements (residual current circuit breaker, disconnection device, overcurrent protection device, and protection against direct contacts).

REGULATIONS

Ministerial Decree 22/01/2008, no.37

During 2008, Law 46/90 was replaced by the new Ministerial Decree DM 37/08. Despite maintaining the same structure as the previous law, this decree introduced certain modifications aimed at firmly implementing the regulations.

In particular, DM 37/08 makes the system owner **responsible for adopting the measures needed to preserve the safety characteristics, taking into account the use and maintenance instructions provided by the installer**. The aim is to work in such a way as to preserve, over time, the safety characteristics envisaged by the regulations in force. The role of the technical standards is confirmed; for example CEI 64-8 in the case of electrical systems, as a reference that can guarantee the respect of best practice.

REGULATIONS

The new CEI 64-8 standard

CEI 64-8 is the main regulatory reference for all those working on low voltage electrical systems, at both industrial and residential level. In 2011, the standard was integrated with a new annex that, by defining **minimum levels for the plant equipment and operating devices in the residential sector**, introduced a new method of electrical system evaluation. This annex was subsequently integrated and updated in the main part of the new edition of standard CEI 64-8, published in July 2012 (becoming the new chapter 37).

The new CEI 64-8 takes an important step towards the **definition of a global quality standard for homes**, where all the components **(from the external walls to the electrical system)** must meet established criteria of safety, environmental sustainability and usability.

PROSIEL PARTNERS



ANIE - Federazione Nazionale Imprese Elettrotecniche ed Elettroniche

Belonging to the Italian Manufacturers' Association, it represents the electro-technical and electronic firms operating in Italy.



ENEL SpA

Company dealing with the sale and distribution of electricity for the relevant market. Part of Enel Group - one of the world leaders in this sector.



IMQ - Istituto Italiano del Marchio di Qualità

The most important Italian certification authority, and a European leader in the evaluation of compliance and test laboratories for the electric, electronic and gas sectors.



CEI - Comitato Elettrotecnico Italiano

Authority recognised by Italy and the European Union for standardisation and unification in the electro-technical, electronic and telecommunications sectors.



FEDERUTILITY - Federazione delle imprese Energetiche e Idriche

A federation bringing together local public service firms operating in the fields of electricity, gas and water.



FME - Federazione Nazionale Grossisti e Distributori di Materiale Elettrico

Within the sphere of the Italian electrical material chain, this federation represents wholesale distributors, safeguarding their role and market function.



ALBIQUAL - Albo dei Costruttori Qualificati di impianti elettrici ed elettronici

An association established to increase awareness relating to electrical safety, in order to stimulate correct system design.



ARAME - Associazione Nazionale Rappresentanti Agenti Materiale Elettrico

A category association whose aim is to create a data-bank that can be accessed by every partner to optimise his professional activities.



ASSISTAL - Associazione Nazionale Costruttori di Impianti

Entrepreneurial category association safeguarding and representing manufacturers of technological systems and industrial assemblies at national and international level.

PROSIEL PARTNERS



CNA - Confederazione Nazionale dell'Artigianato e della Piccola e Media Impresa

The single national system of general representation for Italian firms, with particular reference to artisans, small and medium firms, small and medium industrial concerns, National Confederation of Artisan Pensioners, and the relative interest groups.



CNI - Consiglio Nazionale degli Ingegneri

An organisation for the institutional representation of engineers' professional interests at national level.



CNPI - Consiglio Nazionale Periti Industriali e dei Periti Industriali Laureati

An organisation representing the requests of the profession in all forms, safeguarding its professional identity and autonomy.



Confartigianato Elettricisti

An organisation representing the small firms operating in the fields of construction, installation, testing, set-up, maintenance and repair of electrical systems.



UNAE - Istituto Nazionale di Qualificazione delle Imprese d'Installazione Impianti

A non-profit-making association working for the technical improvement of electrical systems, promoting initiatives aimed at the professional growth of installation firms.

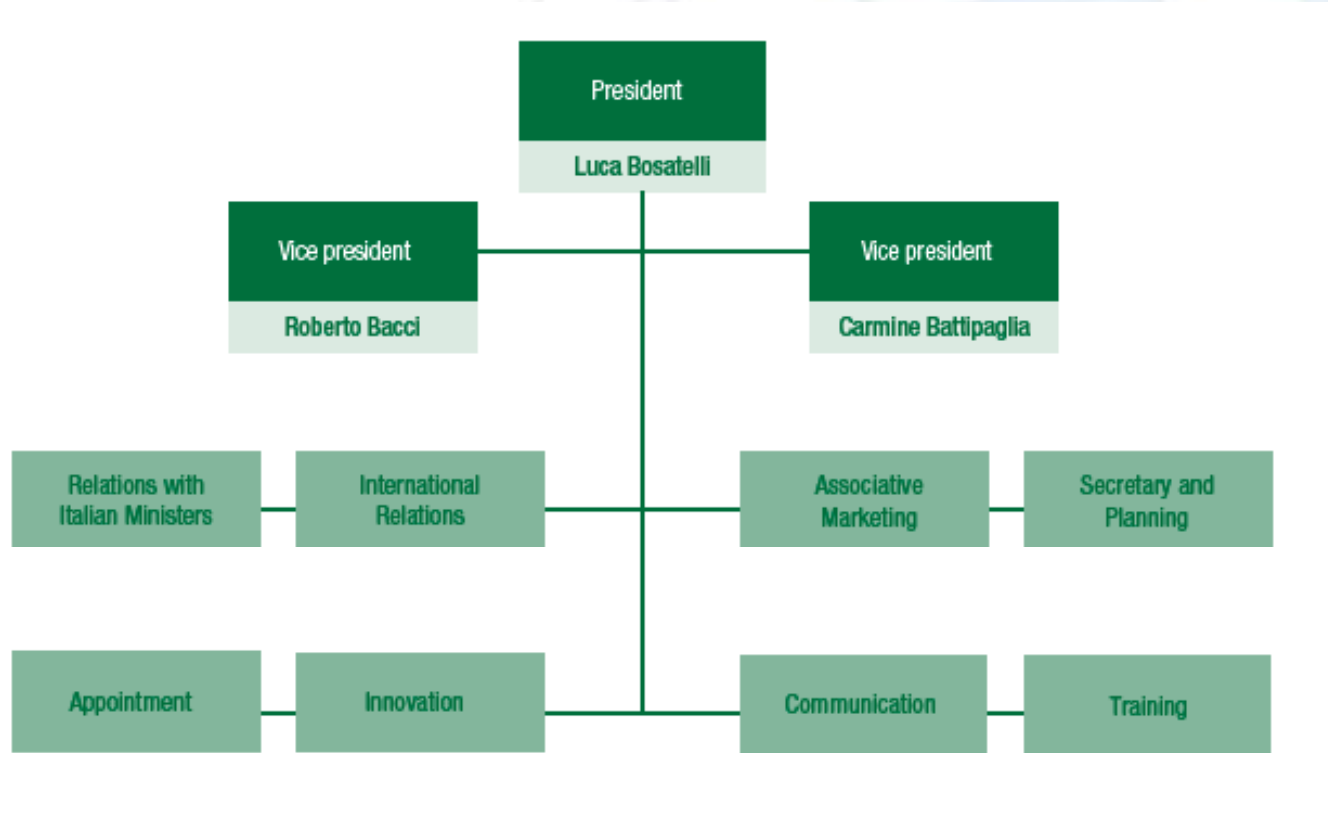
with the participation of:



UNC - Unione Nazionale Consumatori

A non-profit-making association that educates, informs and defends consumers and users, representing their rights in numerous organisations.

ORGANIZATIONAL STRUCTURE



THANK YOU

