

**Find
your
energy**

FIAMM
+ -

FIAMM since 1942

FIAMM Energy Technology has been making batteries since 1942. We were established as a private company which set out to supply a national need for batteries to power vehicles. Since then, we have grown to be and become recognised international business engaged in the development, production and distribution of batteries and accumulators for industrial and mobile applications.

FIAMM Reserve Power Solutions offers a broad range of stationary batteries, designed to guarantee uninterrupted power supply in a myriad of fields.

As our business has expanded, so has our technical knowledge and understanding of how products can benefit customers' different needs. The result is a family of products and solutions to fit many different applications. We are now proud to supply many of the world's leading companies for telecommunications, data centers, railways, power plants, petrochemical plants and energy storage from renewable sources.

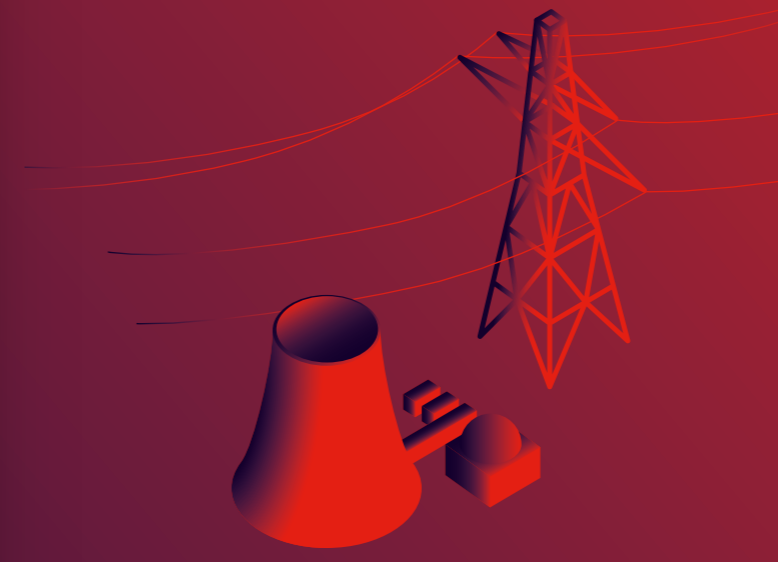
Batteries and energy storage solutions are a key enabler towards the global transition from fossil fuels to a cleaner and renewable energy. Our mission is to work with our partners and customers for the continued development of next generation solutions to meet the vital energy requirements for the future of our world.





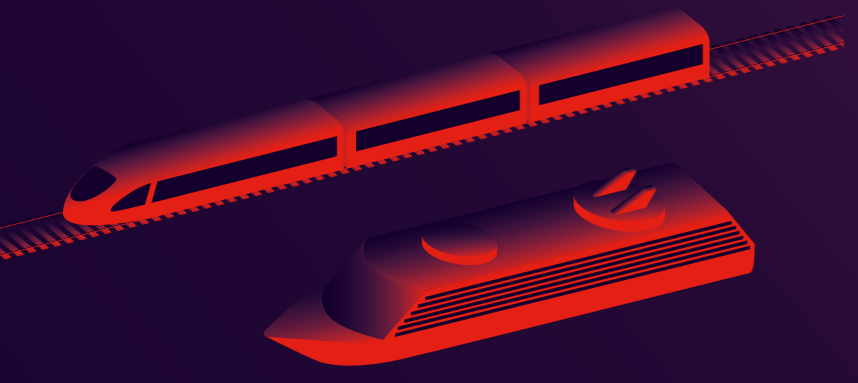
Data Centre & UPS

Protecting precious data



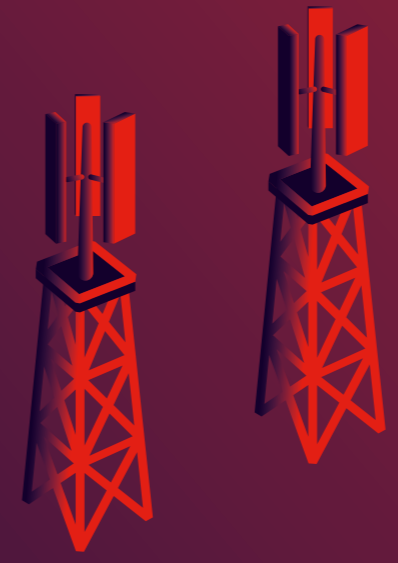
Industry & utilities

Critical back-up power



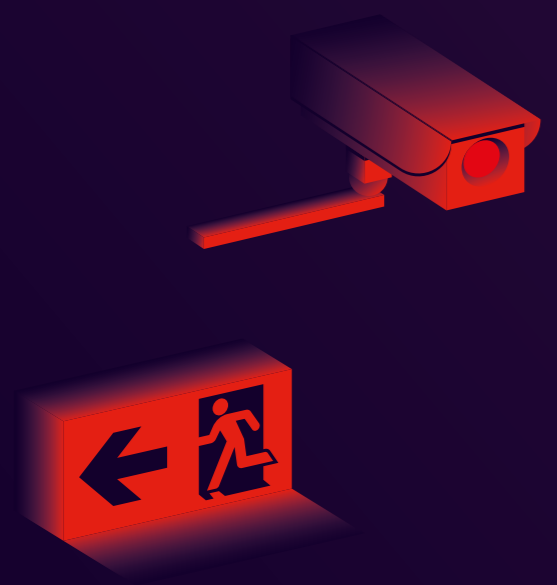
Motion

Batteries on the move



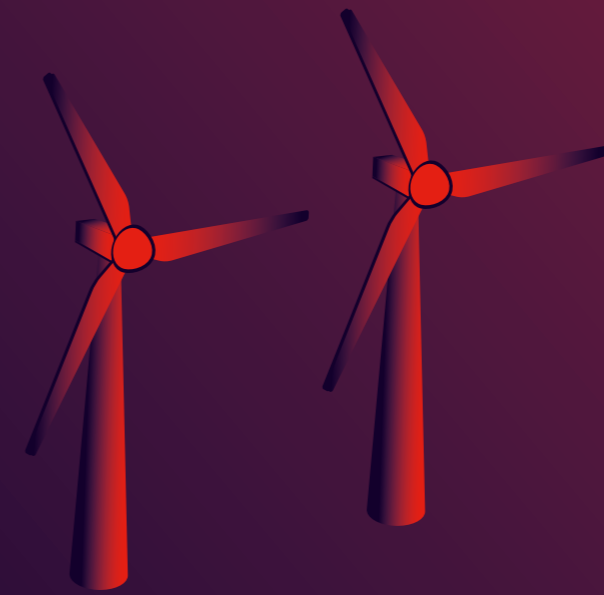
Telecom

Protecting the world's communication networks



Security & emergency

Safe secure energy



Renewable

Stored green energy



FIAMM battery solutions

Enhanced product performance

Our advanced AGM batteries are optimised for demanding applications that include cyclic, temperature or high rate.

Designed for life

All our products are designed and tested to ensure the best performance for the whole life.

We're sustainable

Our products are 99% recyclable at the end of life and can be made into new batteries without any loss of performance.

Safety first

Flame retardant, high quality ABS plastic casings ensure maximum safety.





FLB

Unsurpassed high-rate Performance AGM battery
10/12 years design life enclosed in a rugged flame retardant ABS case and available with top and front terminal designs.



SP

General purpose AGM battery
AGM maintenance-free range designed for a wide range of applications in flame retardant ABS cases



XL

Maintenance-free GEL battery
GEL maintenance-free range with flame retardant ABS case, designed for a wide range of applications with a more than 12 years design life



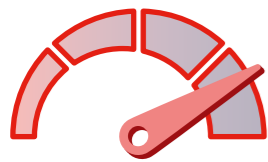
SLA

Very long-life, top terminal AGM battery
12 plus year very long design life, in flame retardant ABS cases available in 2V models

Technical features

LONG DESIGN LIFE

FIAMM batteries, with a very long life classification, are designed for more than 12 years operation in accordance with the Eurobat Guide.



High-rate performance

Our high-rate batteries are designed to perform maximum levels of energy during short and demanding discharge phases. Because these batteries contain more energy they can save valuable installation space.

99% RECYCLABLE

FIAMM lead acid batteries are 99% recyclable. Our products are perfect for the circular economy. Lead recovered from our used batteries can be reprocess repeatedly without any loss on performance.

HIGH CYCLIC BATTERIES

Some applications demand that the battery must be capable of charging and discharging frequently. This type of application places stressful demands on the battery chemistry that cannot be met by a standard standby battery. Our high cyclic battery ranges are designed meet these challenges and to perform in these demanding situations.



Flame retardant casing

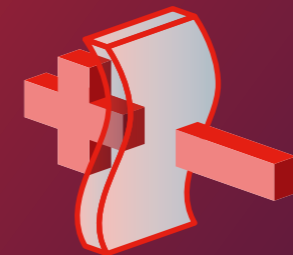
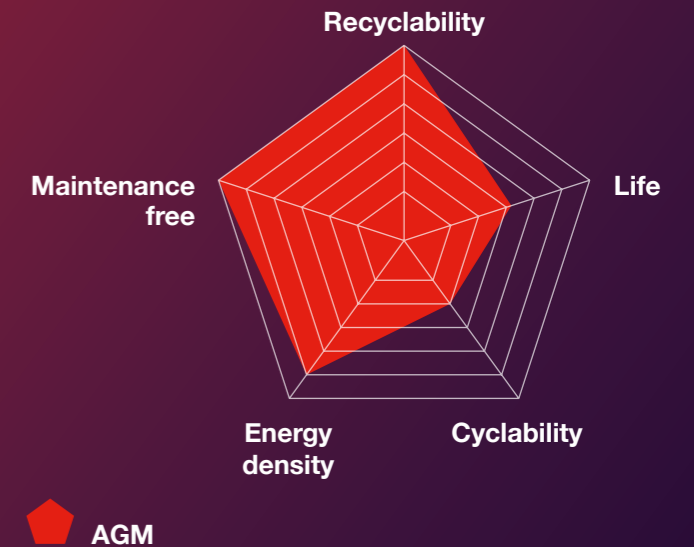
FIAMM batteries are made with flame retardant plastic to provide an extra level of safety and customer assurance. This material offers maximum strength over life. See our product data sheet for more details concerning each range.

Technologies



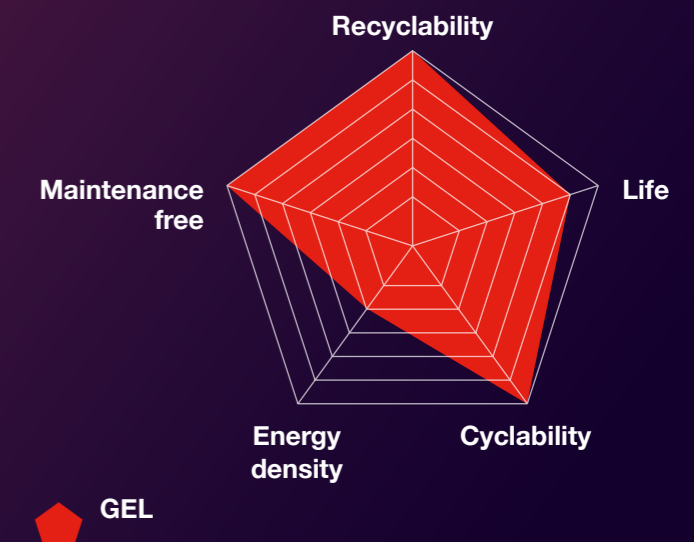
AGM

AGM (Absorbed Glass Mat) batteries offer improved performance with faster charging, longer life and safer operation. These batteries are constructed with an absorbent glass-mat separator between the negative and positive plates. Special safety valves are fitted to minimise electrolyte dry-out over the life of the battery.



GEL

GEL batteries use a jellified electrolyte between positive and negative plates to minimise dry out of the cell. Batteries with a GEL internal structure are very versatile. They offer excellent long life and perform well in a wide range of temperature conditions.



Back-up power for Data Centres and UPS systems

We are a recognised international leader in developing, producing and supplying batteries and energy solutions for special industrial applications and markets. Our company is acknowledged across the world as expert in its field, known for experience in defining the right product solutions that supports the digital revolution.

As proof of our work, we have a renowned list of customers that includes major global names. Their choice of FIAMM is a testament to the quality of products and services we provide.

At FIAMM, business starts and ends with the customer. We believe every application is unique. As a company our objective is to provide the best customised solution.

Our mission is to maintain the critical energy to ensure data and systems operate at all times.

The role of batteries for data security has never been more important. Data and digitised information stored in computing systems drives our world.

All data relies on electrical energy to exist. Without this energy, systems cannot receive, transmit or store their vital information. The loss of energy to support these networks, even for a millisecond, can be catastrophic.

FIAMM provides a critical link to back-up computer and other systems from laptops, desktops, company servers and remote data centres. We do it with the battery products we have been making for more than 70 years. For all of these user groups, choosing the right battery solution involves many factors - our job is to help you make that right choice.



High energy in a compact design

Improved technology of inside components like advanced alloys and manufacturing processes allow the highest performances in a very compact design.

Safety first

Flame retardant, high quality ABS plastic casings ensure maximum safety.

Maintenance free

Our maintenance free products are easy, quick to install and reduce overall operating costs during life.

Designed for life

All our products are designed and tested to ensure the best performance for the whole life.



Batteries for oil & gas, power generation and industry

Industry and power generation are the engine of the world. Power generation creates vital energy and industry transforms materials into products.

Today, both of these sectors are upgrading to a new era; of cleaner power and increased automated systems, robotics and digitisation.

Energy is at the heart of this revolution. It is the force that relies on power to control and produce vital products and services. It is the force that powers our personal and work lives. All of these needs are complex, all of them are connected and even a momentary loss of power, no matter how brief, can lead to major downtimes in industry and an interruption in our personal lives.

FIAMM supports industry with critical back-up batteries. We support power generating plants, oil platforms, manufacturing processes and much more. Like all of our products we support our customers with advice at every stage, from early pre-development planning of a systems to ongoing support long after our products have been installed.

To meet this growing complexity of customer needs we have developed a complete range of batteries solutions to meet all applications. Our products include flooded cells which provide extremely long life, to rugged GEL batteries which combine long life and tolerance to higher temperatures. For maintenance free solutions we have a family of batteries to meet specific application needs from cyclic, temperature and much more.

Like all FIAMM products, they are designed for safe operation and are 99% recyclable.



Designed for life

All our products are designed and tested to ensure the best performance for the whole life.

We fit every need

Our batteries can be used in many different applications and in countless configurations to meet a wide variety of needs.

Safety first

Flame retardant, high quality ABS plastic casings ensure maximum safety.



Rail, marine and more

FIAMM supports industrial mobility systems such as rail and marine applications.

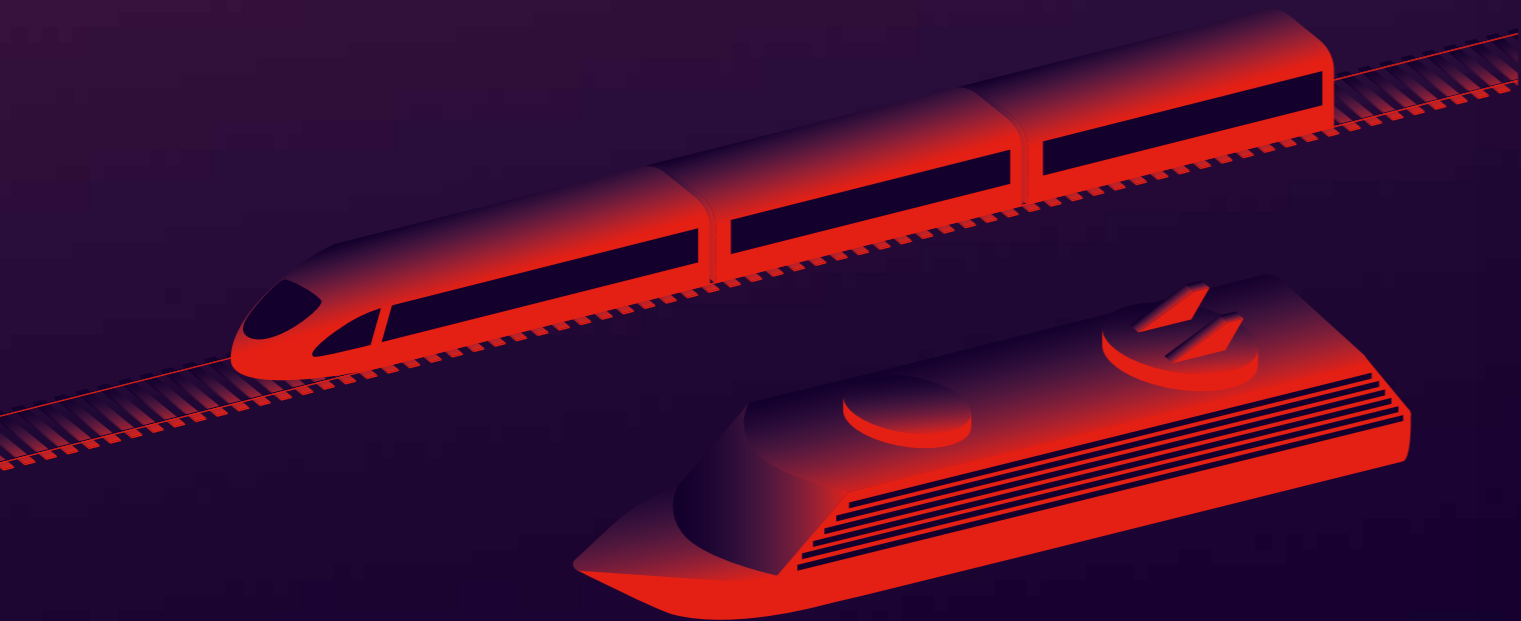
Many of our batteries are designed for rugged applications where there is motion and vibration.

On water we provide energy for small seacrafts right up to major ocean-going ships. Our products support critical systems when vessels leave the safety of land and cross small or mighty oceans. Our power solutions support command and safety systems, whatever the conditions at sea. They are ready to back-up even a momentary failure of power or in the event of people having to abandon a ship in distress. Without our batteries people could not follow emergency exits signs towards safety.

On land we support rail networks. In metro subways systems, local and high-speed train networks – they all need and use our solutions. They support engines power and driver controls as well as safety systems. In passenger carriages they power door openings, ventilation and lighting. Our batteries operate every day, all day and are in constant motion and often under severe vibration.

You can find our products on trackside applications too. We provide emergency power for signalling, transmissions, railway crossings and other critical devices.

FIAMM solutions, on the move or stationary, are always there to support our customers critical needs.



Robust and Reliable

Our products are purpose designed and have stood the test of time in many operating conditions and applications around the world

We fit every need

Our batteries can be used in many different applications and in countless configurations to meet a wide variety of needs.

Enhanced product performance

Our advanced AGM batteries are optimised for demanding applications that include cyclic, temperature or high rate



Batteries for fixed and mobile networks

FIAMM has been offering solutions for telecom applications for more than 70 years. Our battery and energy systems exist on every continent and are used by leading operators and OEMs across the world.

Telecom connects the world. It links people to people; people to information; people when there is a critical need.

The pace of change in telecom is astounding. In just a few decades our society has transitioned from fixed networks with connected lines to a mobile, wireless community. Today there are over five billion mobile smartphone users across the globe and the numbers continue to grow.

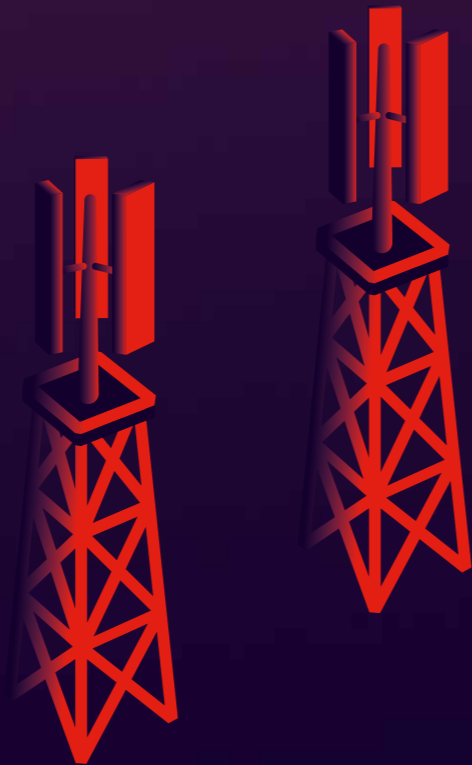
To support this revolution there is a complex architecture of masts, antennas and radio stations. As the telecom world transitions into its next technology upgrade from 4G to 5G there will be even more complexity. There are over 4 million mast antennas globally, supported by many more smaller booster systems.

All transmitter systems, fixed or mobile need, electrical energy to operate. Without this energy a network will fail. Batteries play a critical role and they provide back-up power when mains power fails.

The work of a battery in telecom is complex. Telecom systems exist in every location across the world from arid deserts to freezing sub-continentals. Power outages in these areas can range from moments to hours and sometimes even no mains power. Batteries have to support this wide band of need.

As the telecom world continues to change, we work day-to-day with our customers, listening to their evolving requirements, and innovating new solutions to support their needs.

FIAMM helping to keep your world connected.



Designed for life

All our products are designed and tested to ensure the best performance for the whole life.

Safety first

Flame retardant, high quality ABS plastic casings ensure maximum safety.

Enhanced product performance

Our advanced AGM batteries are optimised for demanding applications that include cyclic, temperature or high rate



Security, emergency lighting small UPS systems

In security systems, small batteries back-up surveillance cameras and alarms, help to protect property and people from danger.

FIAMM is Europe's leading supplier of small sealed lead acid batteries. Our unrivalled ranges of lead acid batteries start as small as 1.2 Ah and all carry the promise of FIAMM quality and performance.

Our small sealed batteries are used extensively. The list of applications is endless.

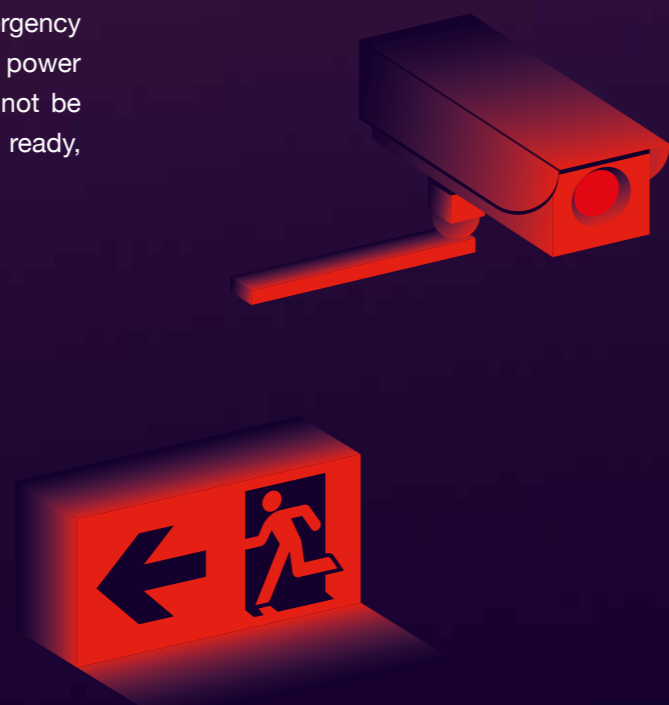
Wherever there are applications that need power, FIAMM small sealed lead acid batteries can be found. For example, in hospitals life support and diagnostic tools need to be moved around. This equipment not only diagnoses symptoms but is often used to save lives. Typical products such as a defibrillators, can help restore a heart when it has suddenly stopped.

Personal safety in public buildings is paramount. Laws demand safety precautions that include emergency exits lights. Imagine what would happen if the power failed in a building and emergency exits could not be located. Our batteries are there, waiting, always ready, in case of emergency.

FIAMM has an unparalleled range of small sealed batteries. Like all FIAMM products they carry our seal of quality; which is why we are Europe's first choice.

The VdS certification, available on selected models, ensures that battery complies with the highest market standards and offers a top level of safety.

FIAMM, helping society to keep safe and secure.



Maintenance free

Our maintenance free products are easy, quick to install and reduce overall operating costs during life.

We're sustainable

Our products are 99% recyclable at the end of life and can be made into new batteries without any loss of performance.

We fit every need

Our batteries can be used in many different applications and in countless configurations to meet a wide variety of needs.



Storing precious energy

We live in a world that is moving away from fossil fuels to a cleaner “green” energy society. This is energy that is taken by capturing the forces of nature. Energy from wind, sun, water and more.

In our future, energy will be harvested from many sources and used to power our society.

Utility companies are already transitioning away from carbon-based power generation. They are investing in green energy solutions. And as individuals we are doing our part, investing in home or residential storage systems to capture energy from rooftop solar panels. We are in the midst of a transition that will affect us all; from industry, community services to our own homes.

But energy from nature comes with its own challenges. As humans we cannot control these powerful forces. Wind, sunshine and other elements are intermittent. Sunlight, the source of power, happens during sunny days and generates energy in excess than needed. Tides and wind can often create energy when we least need it.

Batteries are the key to our energy revolution. They are chemical accumulators that capture electrical energy, store until it is needed, and then release on demand.

FIAMM is part of this revolution. We make specialised deep-cycle storage batteries. They are robust and perfect to meet the challenge of storing large amounts of energy. They can be charged and discharged constantly and operate in many different conditions. Like all our products, they are based on over 70 years of experience.

FIAMM, helping to capture and store vital energy for the needs of our future.



Maintenance free

Our maintenance free products are easy, quick to install and reduce overall operating costs during life.

We're sustainable

Our products are 99% recyclable at the end of life and can be made into new batteries without any loss of performance.

Designed for life

All our products are designed and tested to ensure the best performance for the whole life.



fiamm.com

