

Saft Tactical Power Solutions

A wide range of batteries for a variety of military applications



SAFT

Saft... building tomorrow's batteries today.



Batteries for all needs

Whether you need a battery for engine start, silent watch, or both, Saft batteries are a reliable asset for the U.S. military. Saft's wide range of proven solutions as well as custom batteries has made it possible to get much more out of military vehicles. Commercial products simply won't perform in battlefield conditions. Saft uses the most advanced technology available to develop battery systems that perform above and beyond commercial product capabilities.

Saft batteries are already powering future combat vehicles

GDLS: AHED 8x8

U.S. Army TACOM:
HMMWV

Carnegie-Mellon NREC:
ADP

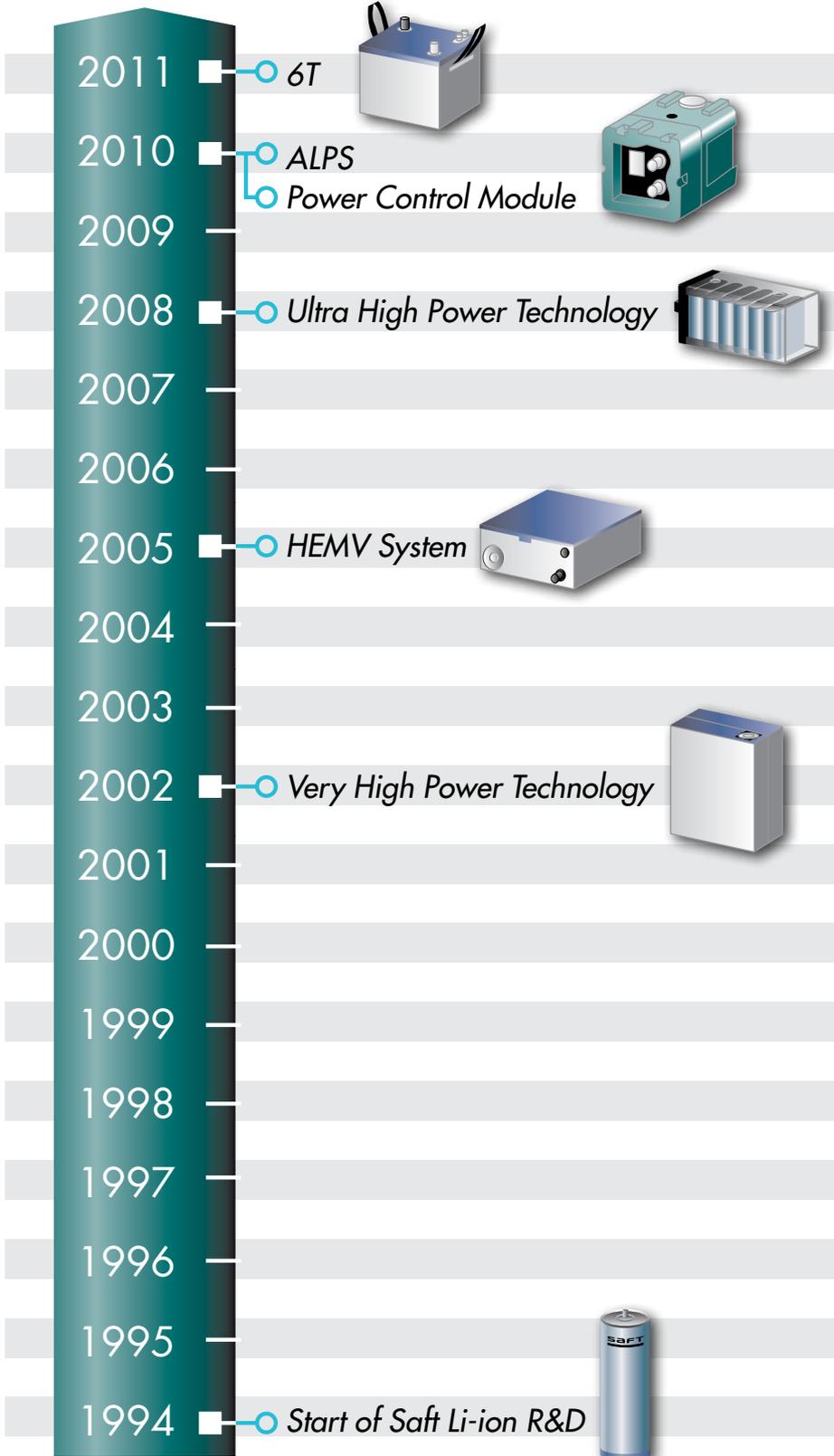
BAE Systems: NLOS-C

GDLS: RSTV



*Advanced hybrid drive systems powered by Saft batteries.
Customized hybrid drive systems were created to provide platform specific levels
of engine start, motive power and silent watch capabilities.*

Saft Defense Program Timeline



Designed, developed and manufactured in the U.S.A

From our Cockeysville, MD plant, home to our U.S.-based R&D team, to our very high volume production available in Saft's Jacksonville, Florida plant, Saft's battery systems are proudly produced in the United States. From cells to batteries, to the integrated systems that support them, Saft provides a total solution for your energy needs.

Fulfilling demand for more energy, less weight

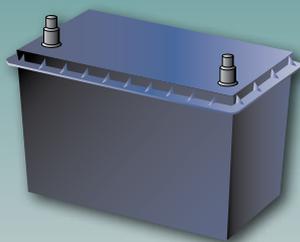
Now more than ever, hybrid electric battery technology is a must-have, given the social, economic and environmental demands for sustainable energy. Saft is playing a vital role in this switch in technology by integrating military ground vehicles with cutting-edge Li-ion battery technology. Saft's Li-ion batteries have the highest power and energy density of typical vehicle battery technologies, achieving the military's demand for more power and energy with less weight.

Custom-made to fit specific energy and power needs

Every application is different; therefore, Saft allows each system to fit the requirement for power and energy. Some applications require a quick and easy start up and others require silent watch or even both. If one of our standard batteries is not right for your task choose our customizable 28V battery to instill superiority in whatever field needed.

Saft batteries are custom-made to solve your needs

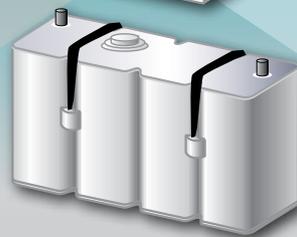
Engine Start



Nickel Capacitor

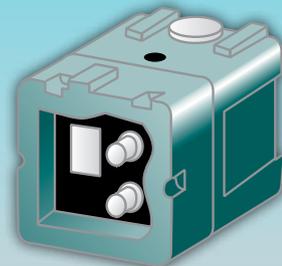


6T



Custom 28V Battery

Silent Watch



ALPS



Saft Nickel Capacitor

Proven success in engine starting applications. It optimizes and reduces the storage battery size and extends the life span. Saft's Nickel Capacitor is reliable, safe, durable, and able to perform at very low temperatures making it ideal for several applications to reduce costs and increase efficiency.



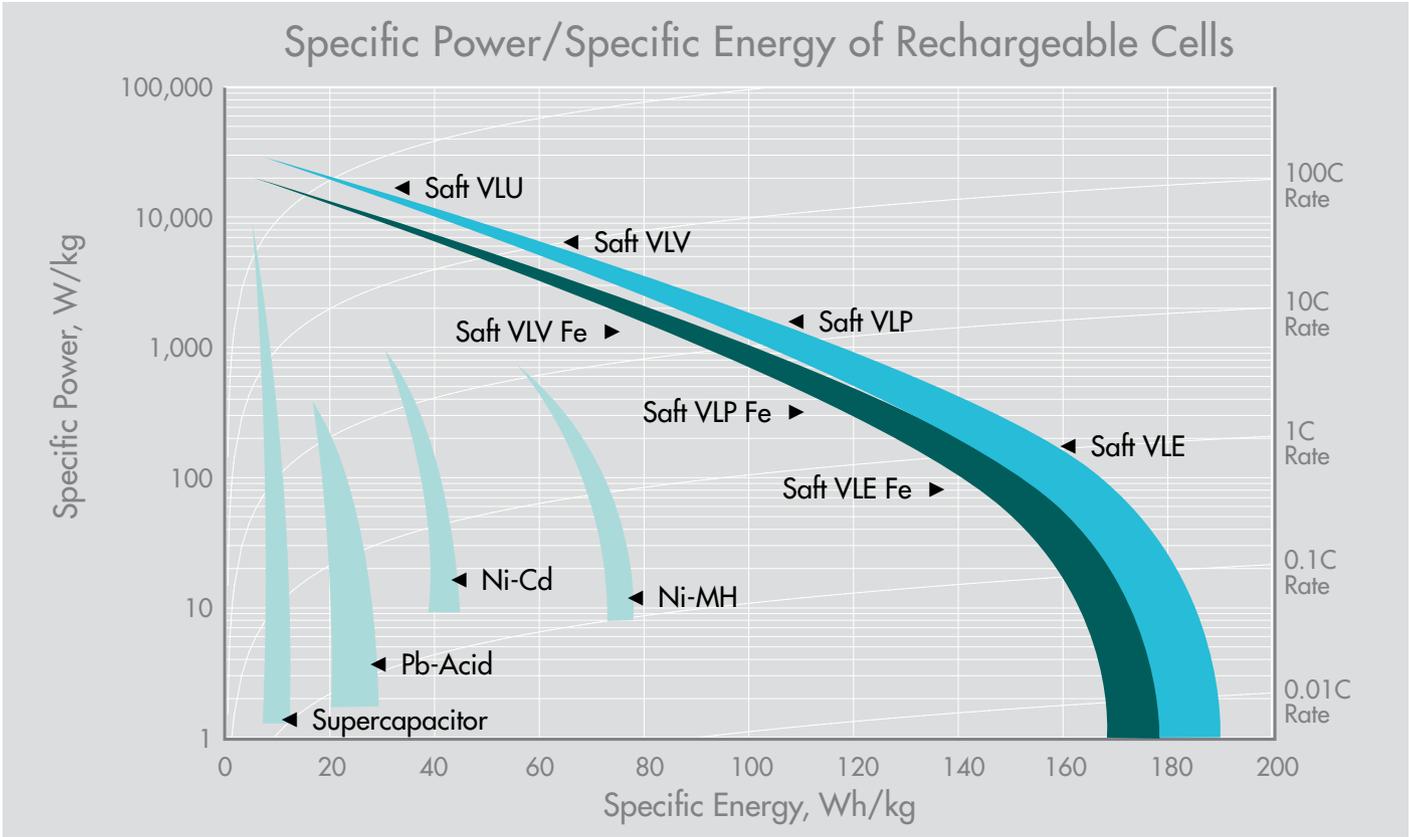
6T

Saft has proven the drop-in performance of the 6T battery on a number of platforms. Providing 24 volts for both engine start and silent watch capabilities, the 6T replaces lead acid batteries on military ground vehicles. It gives the much needed power and energy to start as well as enhance vehicle-to-battery

communications. Designed for engine starting capabilities in applications such as:

- Heavy duty vehicles
- Diesel locomotives
- Generator sets

communications. Weighing only 49 lbs compared to 176 pounds for two 12V lead acid batteries; this will increase the reliability of the vehicle with the proven success of Li-ion batteries.



Customizable 28V Battery

The 28V Military Vehicle battery utilizes the control and safety electronics developed by Saft for the communication with the vehicle. It autonomously balances the battery cells, controls heaters for charging at low temperatures. This battery can be customizable to support your energy and power needs. Saft's Power Control Module can also be used to create a customized solution.



ALPS (Advanced Lithium Power Source)

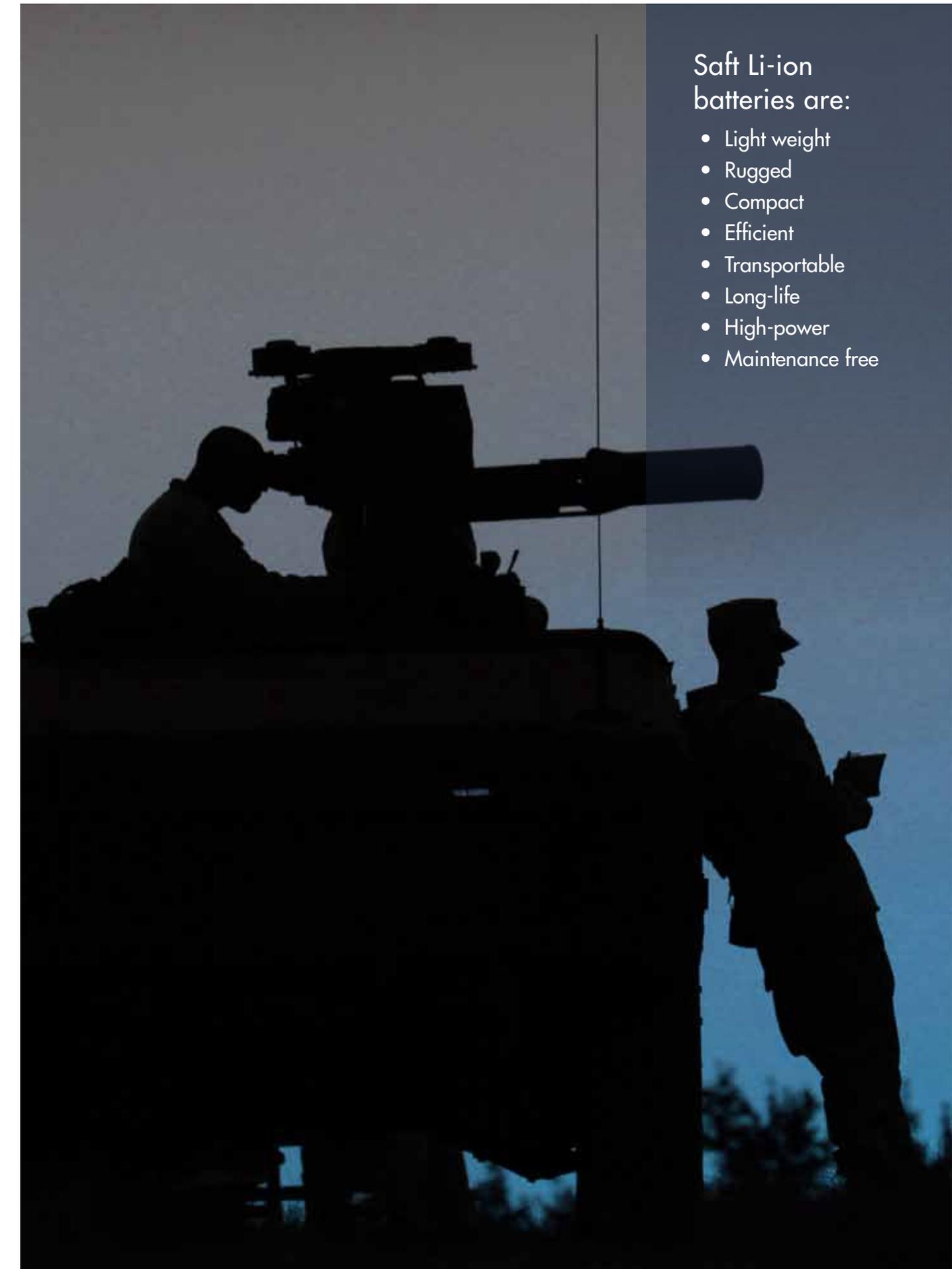
Saft's new Advanced Lithium Power Source is the simplest way to power your equipment through your vehicle. It's designed for situations that require long operation times and low power levels. It is extremely durable and versatile due to its maneuverability and functionality in several military aspects.



Power Control Module

Saft's Power Control Module has many different functions:

- Serves as a circuit breaker that shuts off the battery being used if it ever shorts
- Battery charge function
- Advanced self-test ability
- Communicates with platform

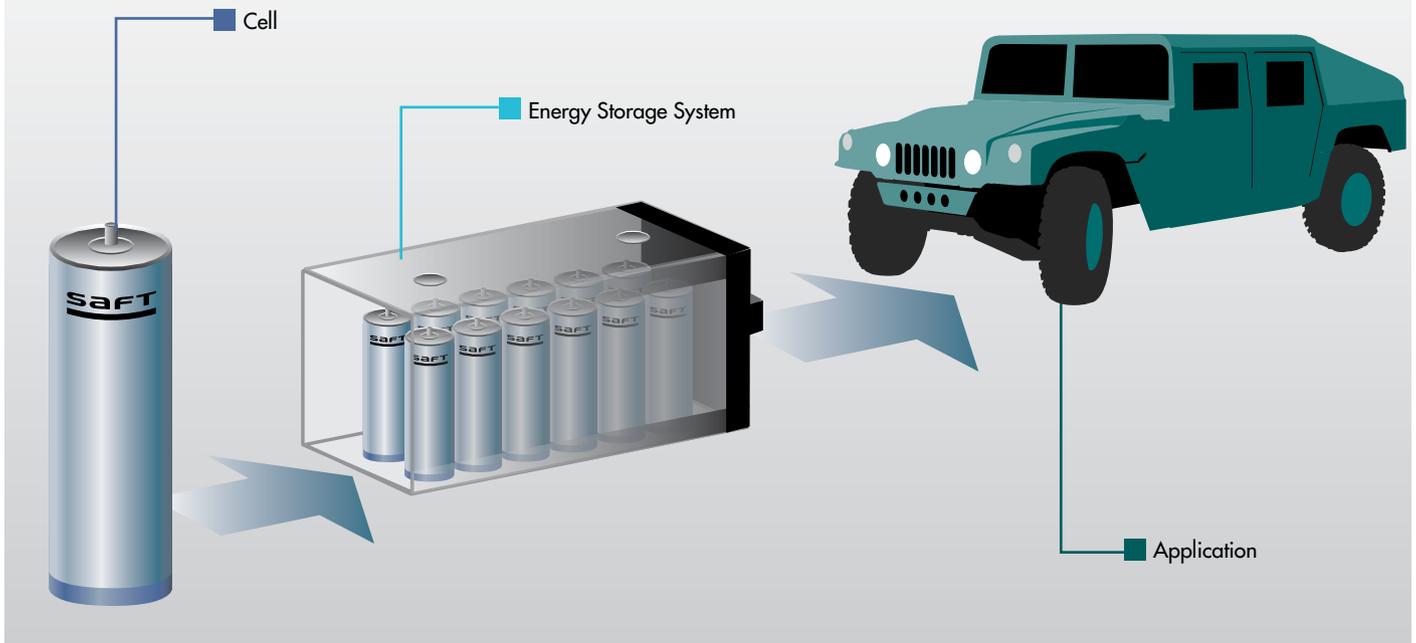
The image shows the silhouettes of soldiers on a vehicle, likely a tank or armored car, against a clear blue sky. One soldier is positioned behind a mounted machine gun, and another soldier stands to the right, holding a clipboard. The scene is backlit, creating a strong contrast between the dark figures and the bright sky.

Soft Li-ion batteries are:

- Light weight
- Rugged
- Compact
- Efficient
- Transportable
- Long-life
- High-power
- Maintenance free

Complete capability, including a full range of product support

28 V Battery: from cell, to energy storage system, to application



Saft's systems philosophy: total integration

Saft's systems approach ties together every step in the product development process, from conceptualization to final delivered systems, but we don't stop there. We ensure that our delivered systems are fully integrated into our customers' applications. The successes of our customers' programs are living proof that our energy storage systems perform. Our services include:

- Research and development
- Program management
- Safety features
- Software and electronics
- Battery management
- Thermal management
- World class manufacturing
- Field support
- On-site battery storage

Technology leaders

With over 15 years of experience researching and developing Li-ion battery technology, Saft has developed the right technology that enables a seamless transition to hybrid electric combat vehicles. Li-ion technology provides lighter weight and faster charge times, both crucial for hybrid vehicle performance. Saft's research and development activities are on-going and we continue to improve our battery technologies.

Partners in your success

Saft is committed to developing partnerships with its customers so that we can provide the integrated systems to support your missions. We pride ourselves on the close working relationships we've developed with our military partners which have enabled us to deliver superior products and services that often exceed their requirements and expectations.

Saft is committed to the highest standards of environmental stewardship

As part of its environmental commitment, Saft gives priority to recycled raw materials over virgin raw materials, reduces its plants' air and water releases year after year, minimizes water usage, reduces fossil energy consumption and associated CO2 emissions, and ensures that its customers have recycling solutions for their spent batteries.

Regarding industrial batteries, Saft has had partnerships for many years with collection companies in most EU countries, in North America and in other countries. This collection network receives and dispatches our customers' batteries at the end of their lives to fully approved recycling facilities, in compliance with the laws governing trans-boundary waste shipments.

Saft has selected a recycling process for industrial lithium-ion cells with very high recycling efficiency. A list of our current collection points is available on our web site. In other countries, Saft assists users of its batteries in finding environmentally sound recycling solutions. Please contact your sales representative for further information.



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