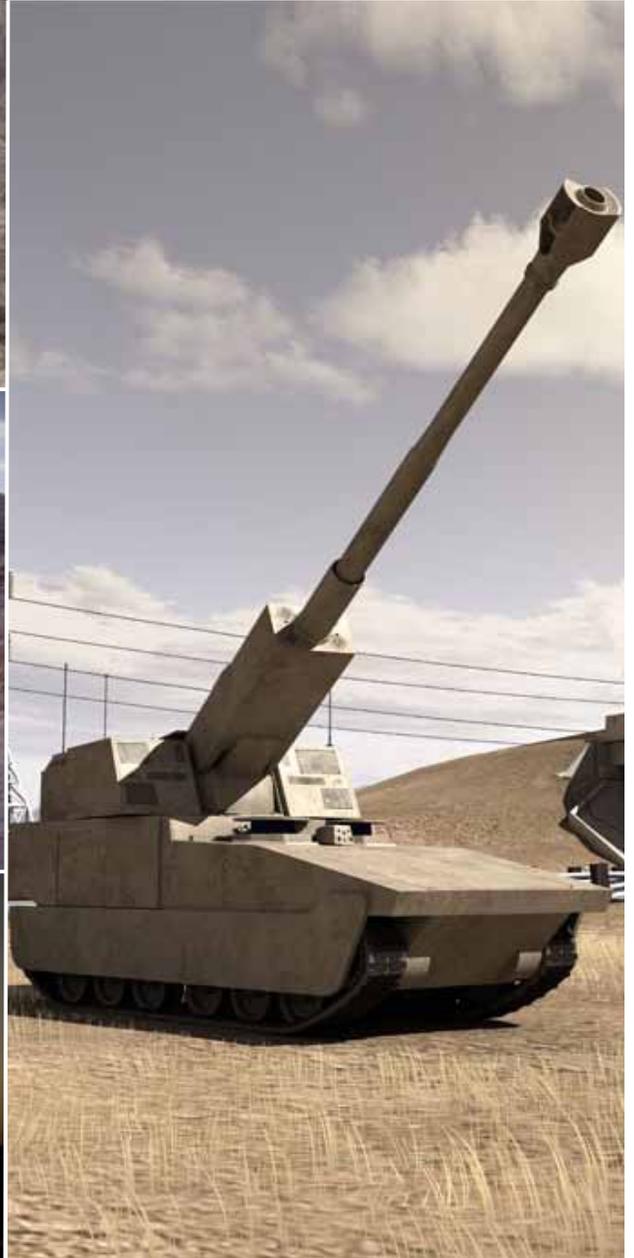


Hybrid power for the future

Lithium-ion batteries for hybrid combat vehicles



SAFT

Surpassing vehicle technology today for continued success tomorrow



GDLS: AHED 8x8



Carnegie-Mellon
NREC: ADP



U.S. Army TACOM:
HMMWV



BAE Systems:
NLOS-C



GDLS: RSTV



The U.S. Army's choice for hybrid power

The superior performance of Saft's Li-ion batteries has continued to make them the clear choice for the U.S. military. Saft batteries are powering several hybrid military demonstrator vehicles including:

- BAE Systems' Non-Line of Sight Cannon (NLOS-C) and Lancer
- Carnegie-Mellon National Robotics Engineering Center's Crusher and Autonomous Platform Demonstrator (APD)
- General Dynamics Land Systems' Reconnaissance Surveillance Tactical Vehicle (RSTV) and Advanced Hybrid Electric Drive (AHED 8x8) Vehicle, Advanced Ground Mobility Vehicle (AGMV)
- U.S. Army TACOM/DRS's hybrid-electric High Mobility Multi-Purpose Wheeled Vehicle (HMMWV)

Enabling hybrid vehicle technology now

For several years, hybrid technology has been essential for mission success. When missions and lives are at stake, you need systems designed specifically for the combat environment. Saft's batteries support the requirements for high-power systems including, hybrid propulsion, silent watch, operations, exportable power and directed energy. Saft continues to make the hybrid possibilities of tomorrow, a reality today.

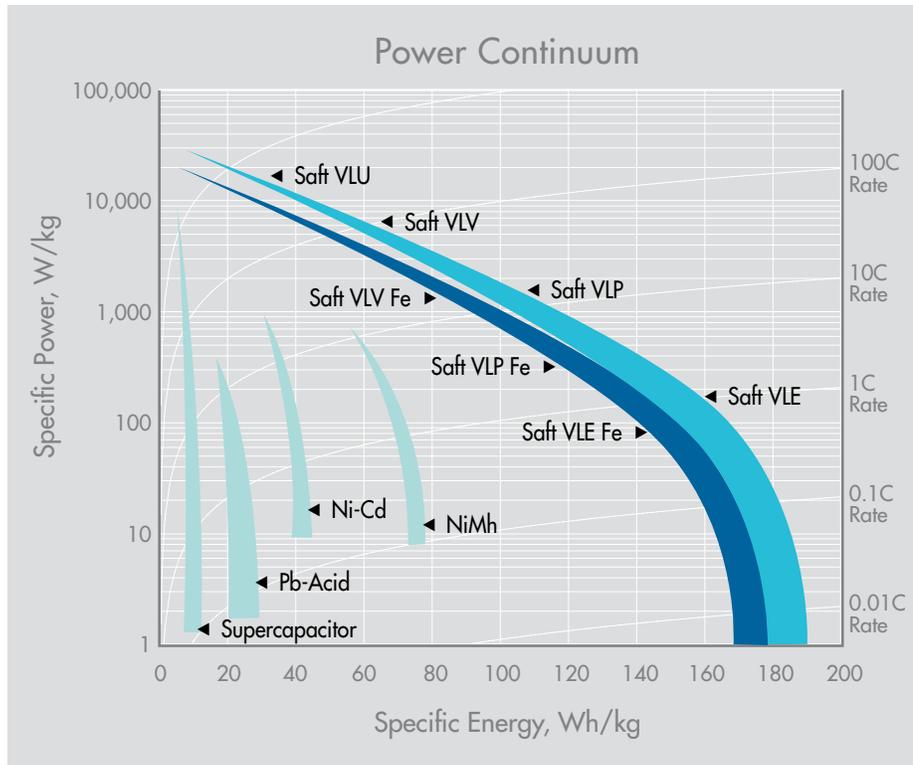
Designed, developed and manufactured in the U.S.A

From our Space and Defense R&D Center for Excellence in Cockeysville, MD, to our Valdese, NC, Valdosta, GA and Jacksonville, FL plants, Saft is the largest provider of primary lithium batteries for the U.S. military, Saft's battery systems are proudly produced in the U.S. From cells to batteries, to the integrated systems that support them, Saft provides a total solution to your energy storage needs.

Optimized for military capabilities

Today's military needs reliable, powerful and rugged solutions that will perform under the most challenging circumstances. Saft's high performance, high-power batteries meet the military's requirements for high-demand systems. 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 Li-ion technology: Proven success in hybrid electric military vehicles



Fulfilling demand for more energy, less weight

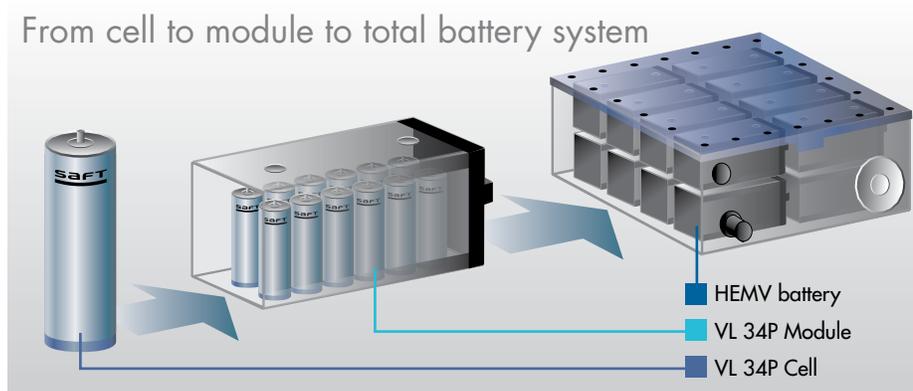
Now more than ever, hybrid electric battery technology is a must-have, given the social, economic and environmental demands for sustainable energy. Saft is playing a vital role in this switch in technology by integrating military ground vehicles with cutting-edge Li-ion battery technology. Saft's Li-ion 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.

HEMV battery: Customized yet standard solution

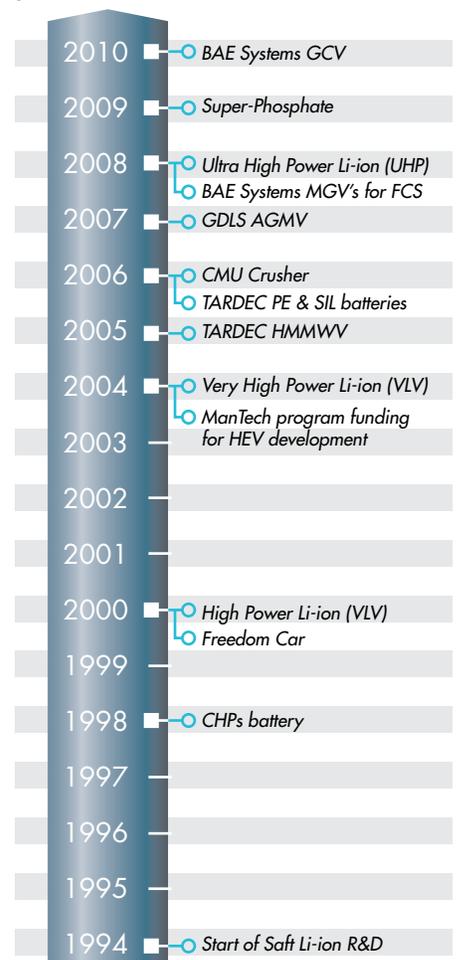
Saft created a custom Li-ion battery, known as the HEMV battery, to power hybrid drive combat vehicles. With no surprise, it has resulted in an efficient, light, and reliable vehicle with enough power to accelerate and brake as well as the energy needed for silent watch. This system has been demonstrated in a number of military applications.

Saft's HEMV battery system is a proven solution to situations requiring very high specific energy as well as very high power. The battery system ranges anywhere from 5 to 8 modules each comprised of 12 VL 34P cells. Reliability and safety is no question for the HEMV battery system because of its integration of the CanBus communications and air cooling features.

From cell to module to total battery system



Military HEV and Li-ion production timeline



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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