

Satellites  
Transversal competencies



Founded in 1918 in France, Saft is the world's leading designer, developer and manufacturer of advanced technology batteries for industrial, terrestrial, space and defence applications is now very well-positioned on the developing markets of clean vehicles and renewable energy storage.

## COMPETENCIES & CAPABILITIES

The battery industrial know-how relies on a large subset of competencies, among which the in-depth knowledge of the electrochemistry fundamentals, the experienced control of key industrial processes or the ability to design large and complex battery systems represent core skills.



# SAFT

## PRODUCTS & SERVICES

Saft believes that battery space-grade equipment should be designed and manufactured under space-qualified and controlled processes over all the chain of value, to ensure long-term performances in space environment. Battery control, balancing and protection are essential to assure long-term battery health and provide battery information and forecast. Saft is today the only company to offer in a comprehensive industrial coverage and provides its customers with a best-in class service ranging from electrochemistry design (materials and electrodes research and manufacturing) to in-orbit support taking into account cells development, qualification and manufacturing, battery assembly and testing.

## MAJOR SPACE PROJECTS & REFERENCES

Saft is the European space battery leader supplier since 1966. Saft has been involved in all the major European and worldwide space programs during more than 54 years: Spot, GPS, DMSP, Meteosat, ATV, worldwide GEO communication satellites from Eutelsat, SES, Intelsat, Inmarsat...and constellations such as Iridium Next with Thales.

Saft is the sole company to have qualified and produced the three main space rechargeable cell technologies (NiCd, NiH<sub>2</sub> and Li-Ion). More than 950 satellites have been powered with Saft batteries since 1966.

Also Saft delivered the batteries for all the Ariane and VEGA launches. In addition, Saft Lithium primary batteries LiSO<sub>2</sub> and LiSOCL<sub>2</sub> were used on specific missions such as ATV, Philae, Mascot.

## POINT OF CONTACT

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**TURNOVER** €788m (2018)

**WORK FORCE** 4,300

**SPACE TURNOVER** €26m

**SPACE WORK FORCE** 130