



Saft in brief 2024

We energize the world. On land, at sea, in the air, and in space.













About Saft

Our divisions

Goals & values

Governance & organization



2 | Corporate presentation 2024







About Saft





TotalEnergies

About Saft

Saft specializes in advanced technology battery solutions for industry, from the design and development to the production, customization and service provision.

For more than 100 years, Saft's longer-lasting batteries and systems have provided critical safety applications, back-up power and propulsion for our customers.

Our innovative, safe and reliable technology delivers high performance on land, at sea, in the air and in space.

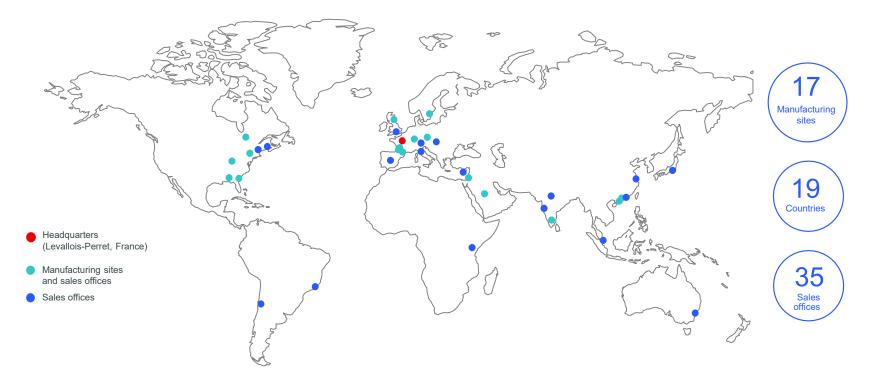
Saft is powering industry and smarter cities, while providing critical back-up functionality in remote and harsh environments from the Arctic Circle to the Sahara Desert.

Saft is a wholly owned subsidiary of TotalEnergies, a multi-energy company that produces and markets energies on a global scale: oil and biofuels, natural gas and green gases, renewables and electricity.

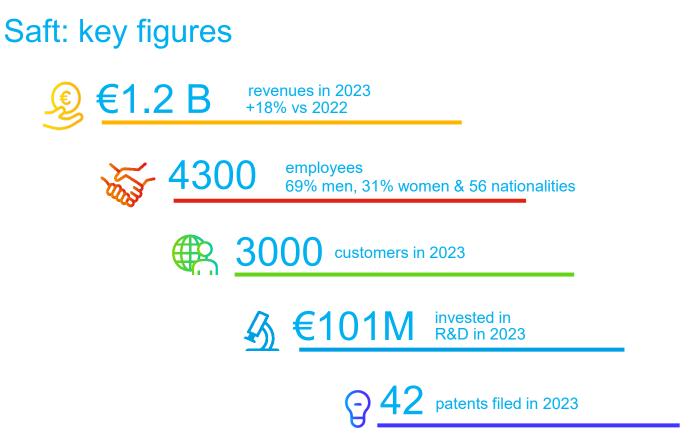


Saft worldwide













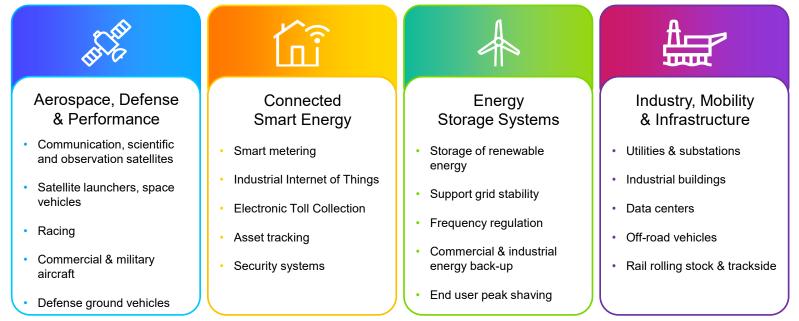
6 | Corporate presentation 2024





4 divisions serving a wide range of industries & applications







Some key customers







9 | Corporate presentation 2024





Our divisions







TotalEnergies

01.

Aerospace, Defense & Performance (ADP)





Aerospace, Defense & Performance

Main applications

Aerospace

- Backup power & emergency systems
- Engine & turbine starting for airplanes
- Communications, scientific & observation satellites
- Satellite launchers & space vehicles



- Military aircraft
- Submarines
- Weapons & torpedo systems
- Armored vehicles

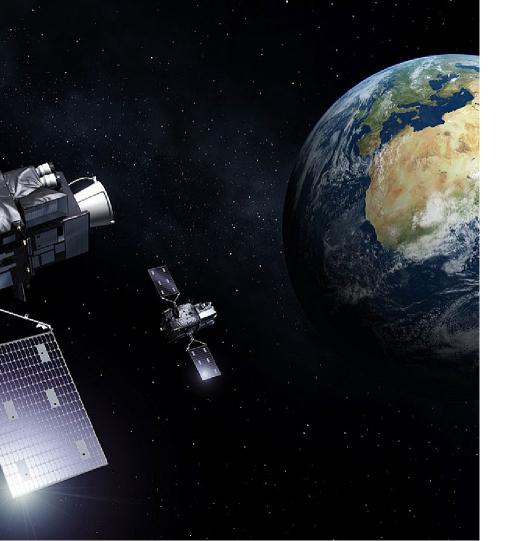


- Formula 1 & Formula E
- Workboats & ferries
- Cruise liners & luxury yachts
- Cargo & offshore vessels



- Nickel batteries for aviation
- Lithium-ion batteries
- Silver-based batteries for
- military equipment





Highlight 2023

EUMETSAT

Saft provided lithium-ion batteries for EUMETSAT's Meteosat Third Generation program.

These batteries power six satellites, improving the accuracy of weather forecasts.

Saft batteries offer a constant flow of weather data, even during solar eclipses in geostationary orbit.

They will support two types of satellites over the course of the 20-year mission, helping to gather visual data, and monitor water vapor and atmospheric gas.







02.

Connected Smart Energy (CSE)



Connected Smart Energy



Main applications

- Smart metering
- Electronic toll collection systems (ETC)
- E-call
- Asset tracking
- Industrial Internet of Things (IIoT)
- · Medical devices
- Portable military applications
- Oil drilling
- Environmental monitoring
- · Security systems







Highlight 2023



Vibration analysis is essential to keep machines in good condition. It can detect problems before they become critical, and provide a real-time view of the state of rotating machines.

Our client I-care launched Wi-care[™] 130 Next Gen, a wireless solution for monitoring predictive maintenance and vibration analysis.

Each Wi-care[™] 130 device uses a Saft LS26500plus battery, which is ideal for sensors and measurement equipment.







03.

Energy Storage Systems (ESS)





Energy Storage Systems



Main applications



- Energy storage solutions for network services & renewable energy services
- Micro-grids for commercial & industrial applications







Highlight 2023



MYRTLE

Saft played a central role in commissioning Myrtle Solar, TotalEnergies largest solar power plant in the United States.

Saft provided 114 high-technology containers that store a total of 225 MWh, thereby helping stabilize the network.

These batteries allow Myrtle to produce enough green energy to power the equivalent of 70,000 households, and to meet the needs of TotalEnergies industrial sites.







Industry, Mobility & Infrastructure (IMI)







Industry, Mobility & Infrastructure

Main applications



Industry

- · Backup power
- Starting power & cycling applications in the oil & gas industry
- Power generation & distribution



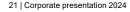
- Mobility
- · Electrification of industrial vehicles
- · On-board backup power for lighting, air conditioning, communication systems
- · Critical safety rail applications (emergency braking, door opening systems)
- · On-board rail traction systems



- Railway signaling systems
- · Backup power for the telecommunications industry
- Data centers



- Nickel batteries
- Lithium-ion batteries







Highlight 2023

Siemens Mobility

In 2023, Saft equipped SIEMENS MIREO PLUS H hydrogen-powered trains with two battery systems, each providing 100 kWh of energy.

These batteries provide sufficient traction for the train's acceleration before the hydrogen takes over.

The project was led from Bordeaux, France, with production in Jacksonville, U.S. and assembly in Nersac, France.



TotalEnergies



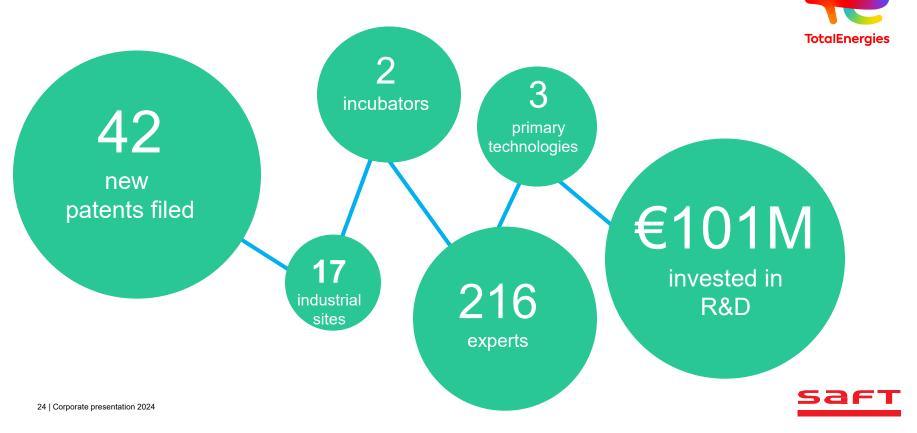




Goals & values



Key figures for innovation and expertise





IBIS Project

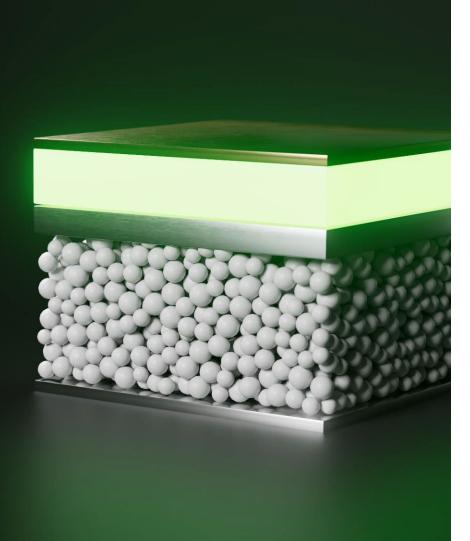


In July 2023, Saft, CNRS and Stellantis officially presented the IBIS battery (Intelligent Battery Integrated System).

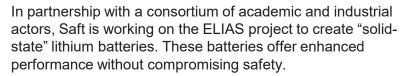
IBIS integrates the electric charger and inverter functions into the lithium-ion battery modules replacing them with electronic conversion cards, thereby freeing up space in the vehicle and reducing cost.

A demonstrator, operational since 2022, is the subject of numerous patents and marks a major break from electrical energy conversion systems currently used.





ELIAS project



The ELIAS project, supported by France 2030 and Bpifrance, is a response to the expected expansion of the battery market, which should quadruple by 2030.

Saft anticipates having an operational prototype in Bordeaux available in late 2024, marking a major step in the development of this technology.



Program Net Zero



Our 5 pillars In 2023 PLATINUM Top 1% 6ML Reduce our Help our **Recycled water** 2023 environmental customers decarbonize ecovadis impact Sustainability Rating -3.6% Implement circular 61 carbon intensity Procure 1st economy 77 /unit produced throughout sustainably our operations battery manufacturer in the world to achieve the 75% Platinum Medal Develop people 212 of waste recycled and contribute to society





Our values

On a daily basis, we rely on a set of values that guide our actions, support our corporate culture, and enhance our organization. They are at the heart of our way of working.









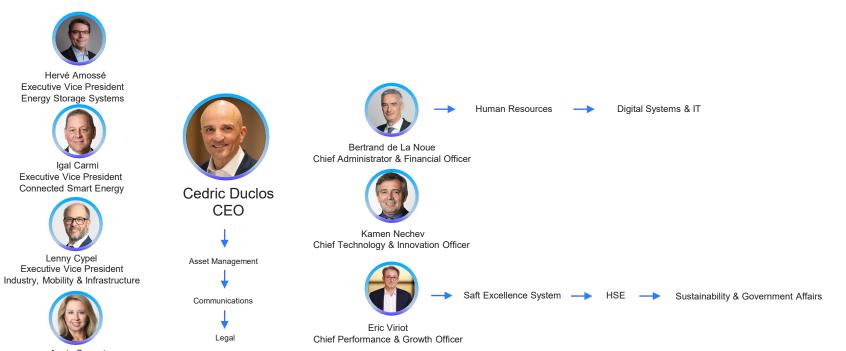


Governance & Organization



Saft management team





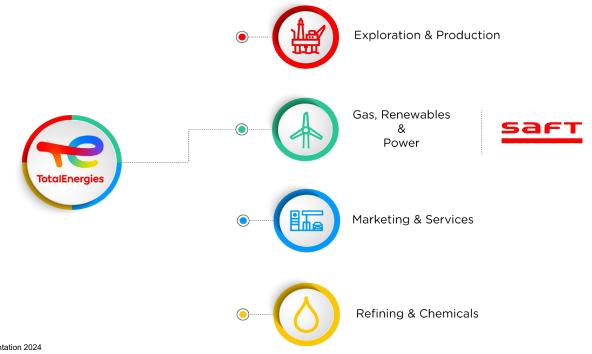
Annie Sennet Executive Vice President Aerospace, Defense & Performance

30 | Corporate presentation 2024





Saft, a wholly-owned subsidiary of TotalEnergies since 2016









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