

The logo for ECAPS is rendered in a bold, white, sans-serif font. The letters are stylized with thick strokes and rounded terminals. The 'E' has three horizontal bars, the 'C' is a simple curve, the 'A' has a triangular top and a dot, the 'F' has a horizontal top bar and a vertical stem, and the 'S' has a thick, rounded body. The background is a dark blue gradient with a pattern of fine, light blue dots forming a wavy, textured effect.

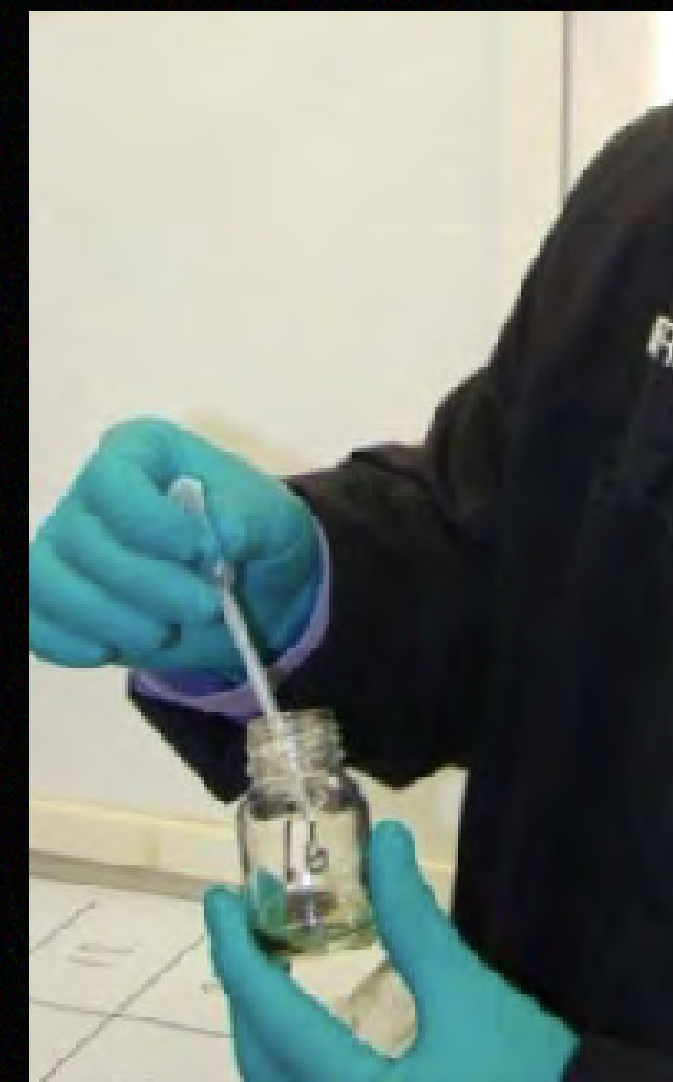
ECAPS

PIONEERING THE FUTURE OF PROPULSION

ECAPS AT A GLANCE



At ECAPS, we specialize in the production of thrusters and non-toxic "green" propellants for the modern space industry. Our standout innovation, the LMP-103S propellant, not only reduces environmental impact but also offers superior propulsion performance. Our commitment to innovation and sustainability makes us a trusted choice in the aerospace sector.



CERTIFIED BY :



ECAPS FOUNDED

2000

BASED IN

Sweden

PRODUCED

+300 Thrusters

ROCKET ENGINES

POWERING SPACE WITH HPGP TECHNOLOGY

THRUSTERS ENHANCED BY ECAPS'S HPGP TECHNOLOGY

DIVERSE THRUSTER RANGE

From 100mN for small satellites and CubeSats to 220N for upper stages and deep space missions, catering to various aerospace needs.

OPTIMIZED FOR HPGP

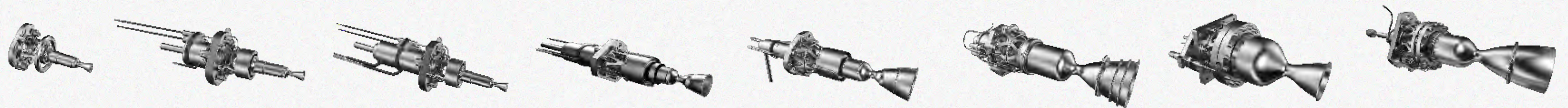
Our thrusters are specifically designed to harness the full potential of our proprietary High Performance Green Propulsion Technology.

VERSATILITY IN ACTION

Efficiently powering diverse space missions, from satellite launches to profound deep space explorations.

FUTURE-ORIENTED

Engineered to meet the ever-evolving demands of the space industry and to fuel the next generation of space endeavors.



100 mN HPGP THRUSTER

1N GP THRUSTER

1N HPGP THRUSTER

5N HPGP THRUSTER

22N HPGP THRUSTER

50N HPGP THRUSTER

200N HPGP THRUSTER

220N HPGP THRUSTER

ROCKET FUEL

PROPELLING INNOVATION WITH TANGIBLE BENEFITS

UNVEILING HPGP: HIGH PERFORMANCE GREEN PROPULSION - THE POWER BEHIND ECAPS SUCCESS

ECAPS proprietary HPGP propellant, LMP-103S, based on Ammonium DiNitramide (ADN), sets a new standard in the aerospace domain. It not only offers up to 30% better performance per volume than traditional monopropellant hydrazine but also champions a sustainable and efficient future with its environmentally friendly nature.

COST EFFICIENCY

Reduced costs by up to 72% in typical NASA loading scenarios compared to Hydrazine.^[1]

GREEN AND SUSTAINABLE

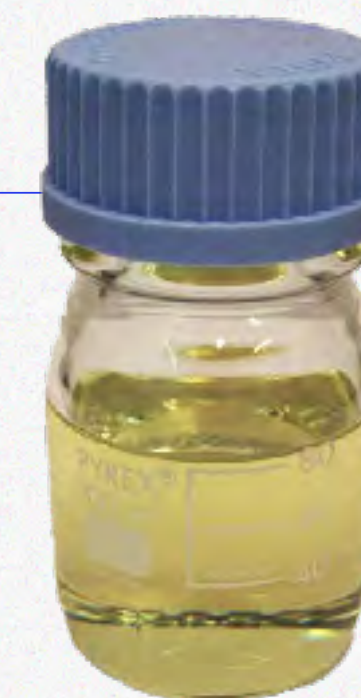
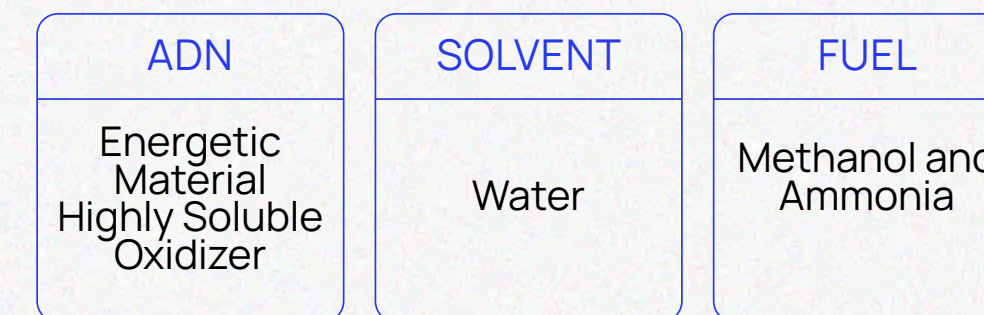
Compliant with Europe's REACH regulations, ensuring a sustainable use of space.

PERFORMANCE BOOST

30% more performance, paving the way for more efficient space missions.

ENHANCED LIFECYCLE

Lower lifecycle cost and sustainable "green" profiling for satellite integrators.



LMP-103S
High Performance Green Propellant

CO-PRODUCED WITH EURENCO BOFORS.
Invented and supplied by ECAPS

LMP-103S MONOPROPELLANT

ADN	60-65%
METHANOL	15-20%
AMMONIA	3-6%
WATER	BALANCE (BY WEIGHT)

HIGHER PERFORMANCE (vs. hydrazine):

- ⦿ Isp ≥ 6%
- ⦿ Density ≥ 24%
- ⦿ Density Impulse ≥ 30%

REDUCED PERSONAL AND ENVIRONMENTAL HAZARDS

- ⦿ Low Sensitivity
- ⦿ Low Toxicity
- ⦿ Non Carcinogenic

SIMPLER AND LESS COSTLY HANDLE AND TRANSPORT:

- ⦿ SCAPE not required
- ⦿ Approved for commercial air transport
- ⦿ Enables 'fuel at the factory'

[1] Henry W. Mulkey, Green Propellant Loading Demonstration at U.S. Range

ECAPS IN ACTION

100+ THRUSTERS IN SPACE ACROSS 26 SATELLITES | MARKING 10 LAUNCHES OVER 3 CONTINENTS

PRISMA



Dnepr 15
Yasny,
Russia
June 15,
2010

SKYSAT 3



Pslv C-34
Shar
Chennai, India
June 22,
2016

SKYSAT 4-7



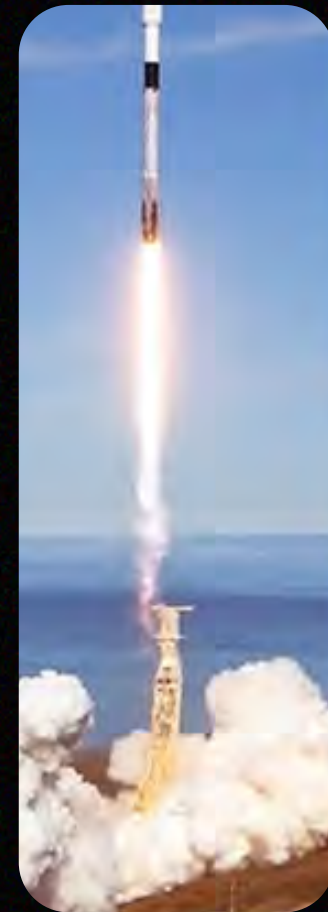
Vega 007
CSG Korou
French Guiana
September 15,
2016

SKYSAT 8-13



Minotaur-c
Vandenberg,
USA
October 31,
2017

SKYSAT 14-15
STP SAT-5



Falcon-9
Vandenberg,
USA
December 3,
2018

SKYSAT
16-18



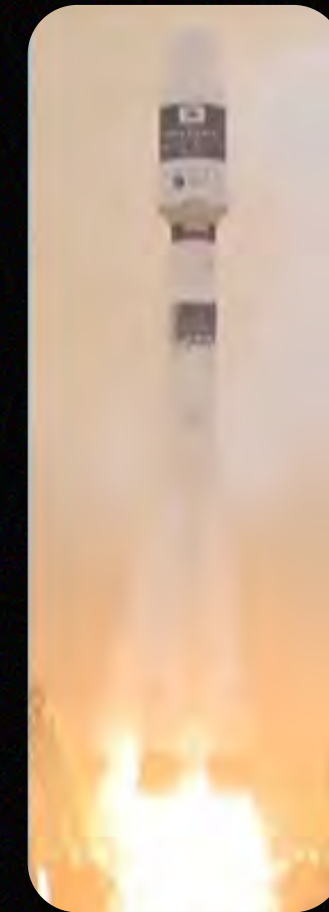
Falcon-9
Cape
Canaveral,
USA
June 13, 2020

SKYSAT
19-21



Falcon-9
Cape
Canaveral,
USA,
August 18,
2020

ELSA-D



Soyuz
Baikonur,
Kazakhstan
March 22,
2021

NROL-111
ALTAIR 1-3



Minotaur 1
Wallops,
USA,
June 15,
2021

ARGOMOON



Artemis-1
KSC, USA,
November 16,
2022



CUTTING-EDGE FACILITIES

FOR NEXT-GENERATION PRODUCTION

At ECAPS, our state-of-the-art facilities allow us to maintain our position as one of the top suppliers of Green Propulsion solutions. Our capabilities include in-house design, engineering, production, testing and verification.



Solna, Sweden

Production, Research & Development, Testing Facilities



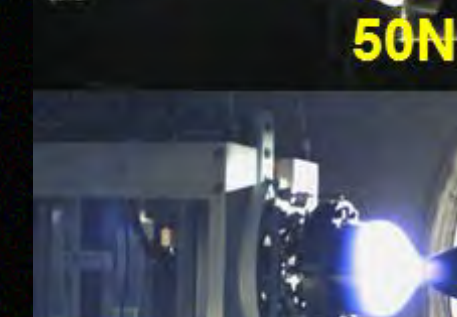
Grindsjön

Space test center at Swedish Defense Research Agency (FOI)



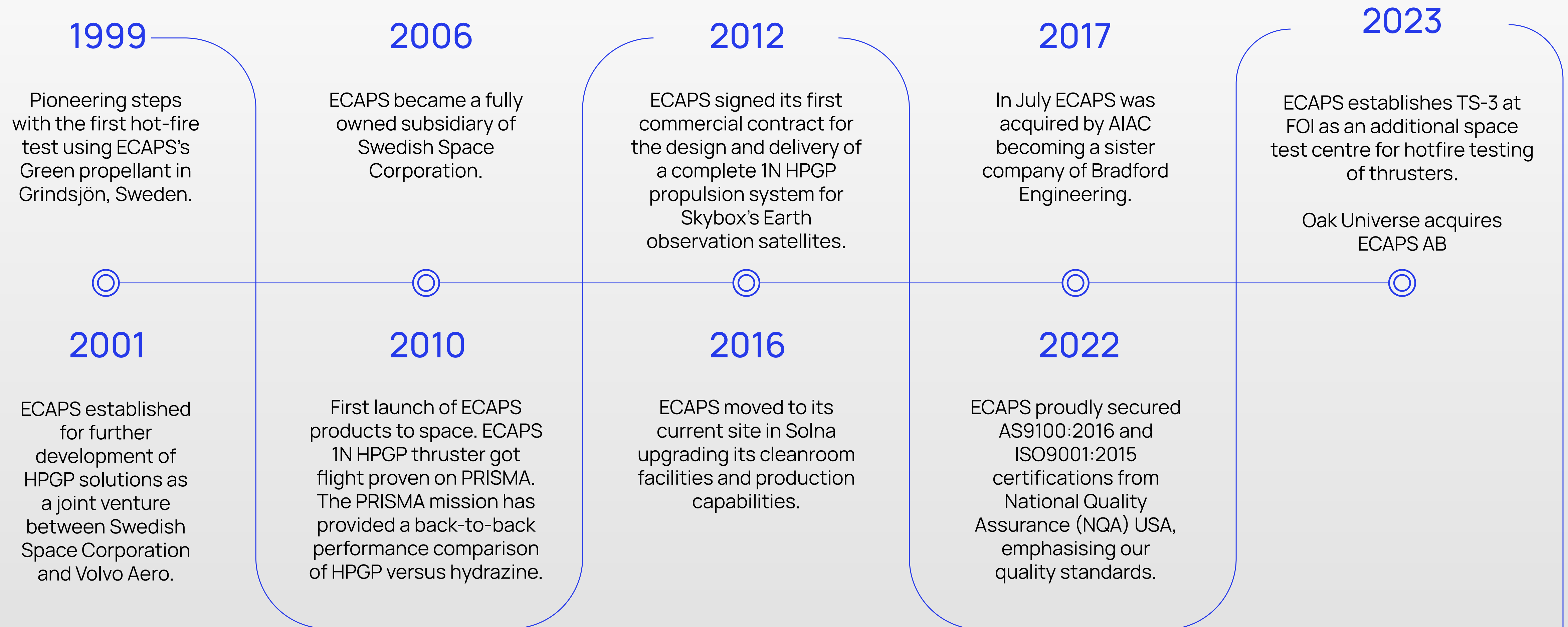
Karlskoga, Sweden

Propellant production in cooperation with EURENCO Bofors



ECAPS JOURNEY

KEY MILESTONES IN OUR STELLAR JOURNEY



CUSTOMERS AND PARTNERS

COMMERCIAL SPACECRAFT BUILDERS AND OPERATORS



SPACE AGENCIES



ECAPS

ECAPS AB

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www.ecaps.se