



Innovating Cremation

**The World's First Hybrid Human
Cremator – FTIV**

Facultatieve Technologies

Introduction



Ashley Jessup

Systems Engineering Manager for the *FT* Group.



- Started with *FT* in 2018.
- Today, in a global technical leadership role for the *FT* Group.
- Responsible for system design & engineering for *FT* Product Portfolio.
 - Led the development of the *FTIV* Hybrid cremator.

FT – What We Do

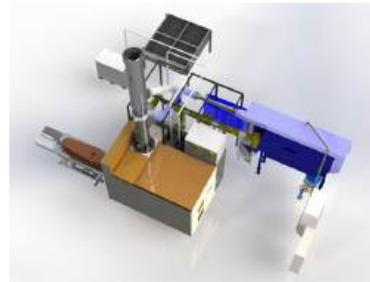


Facultatieve Technologies is a Global Leader in manufacturing and maintaining cremation and incineration equipment.

• Cremators



• Flue Gas Treatment



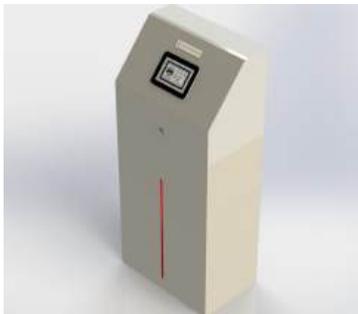
• Loaders



• Cremulators



• NOx Abatement



• Incinerators



• Maintenance



• Refractory





Our History



de Facultatieve Group acquires Evan Universal, with the integration of INEX TABO, we become Evans Tabo Universal.

Facultatieve Technologies acquires FDI (Fours Delot International) in France, a cremation manufacturer established in 1908

de Facultatieve Group was acquired by the Funecap Group



Evans Universal is formed in Leeds, UK



Rebranded to Facultatieve Technologies



Facultatieve Technologies acquire ISI (Incinerator Specialist Inc.) in the USA



Our Company



We operate offices in

10 COUNTRIES

- UK*
- USA*
- France
- Spain
- Netherlands
- Germany
- Italy
- Poland
- Czech Republic*
- Australia



*FT Production Plants

Our Company



We support our customers in

>20 COUNTRIES

- UK
- USA
- Europe
- Denmark
- Sweden
- Canada
- Chile
- Poland
- Czech Republic
- Australia
- + more



Our Company



Revenue

~€100M



Employees

>275



**Equipment
Worldwide**

>4000

Our Company



Production

>200 Machines



Experience

>1300 Years



Servicing

~2150 machines

Why is Change Needed?



Net Zero by 2050

107 countries have formally pledged to meet Net Zero Carbon Emissions by 2050, in order to limit global warming to 1.5°C above pre-industrial levels

Why is Change Needed?



Global Energy Crisis



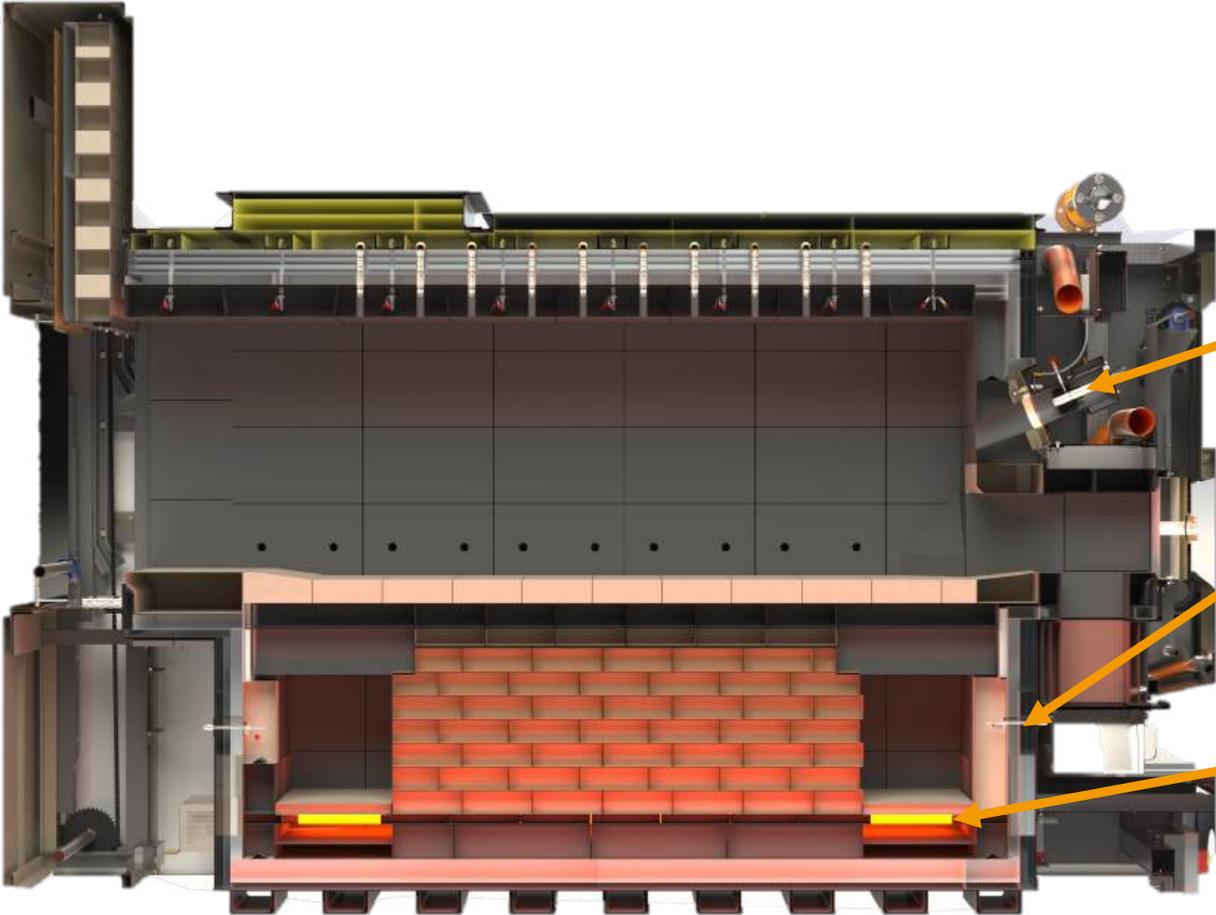
Record prices, fuel shortages, rising poverty, slowing economies: the first energy crisis that's truly global

Concept



- Development started in 2021.
- A True Multifuel Hybrid Cremator
 - Electric
 - +
 - Natural Gas (Methane)
 - LPG (Liquid Petrol Gas)
 - Biodiesel RME (Rapeseed Methyl Ester)
 - rDME (Renewable Dimethyl Ether)
 - Hydrogen – in Development
- Factory or site-built option, single or double ended configuration.
- Intelligent Control System

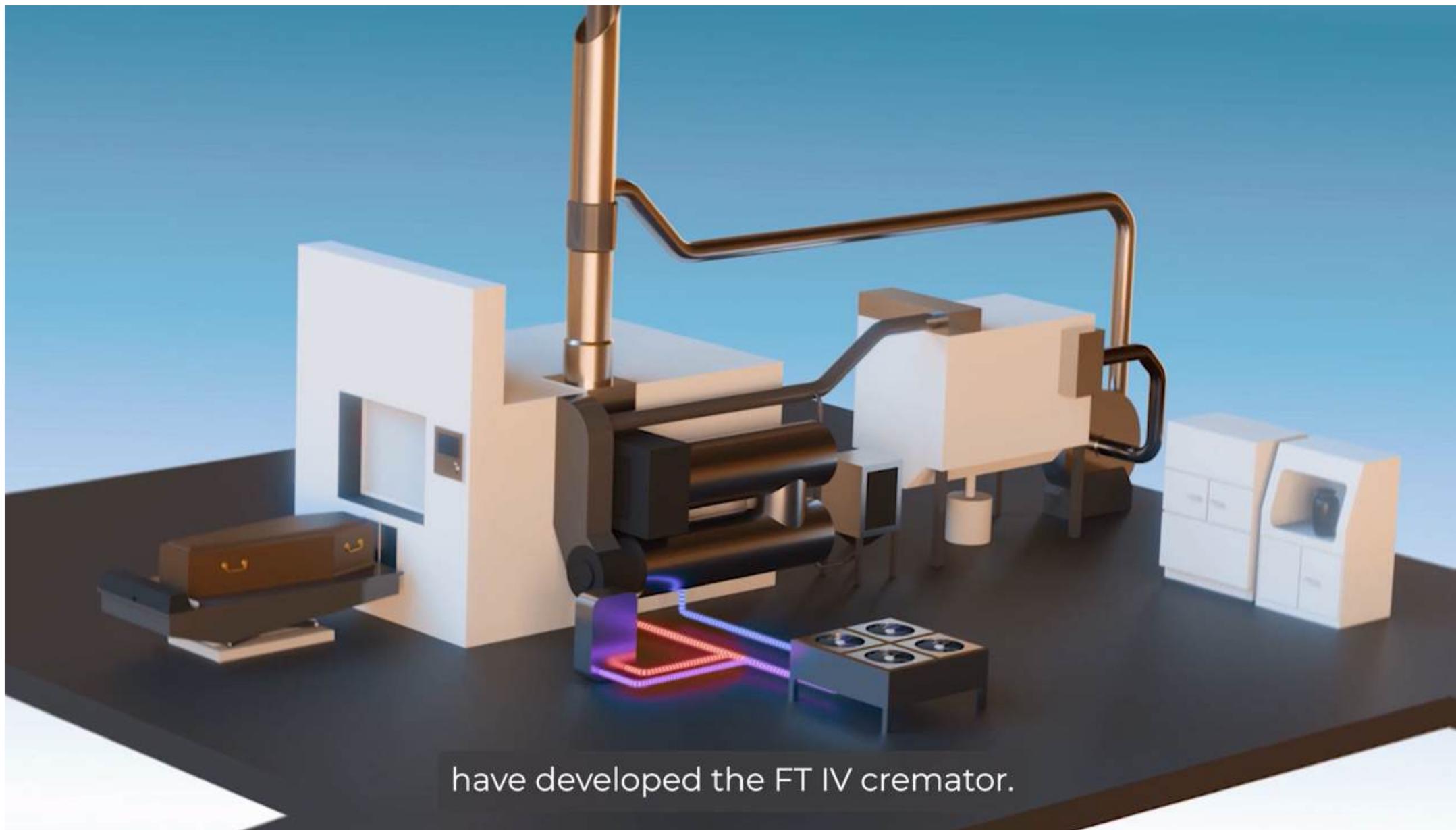
FTIV Cross-section



275kW Primary Burner

350kW Secondary Burner

90kW Electric Elements



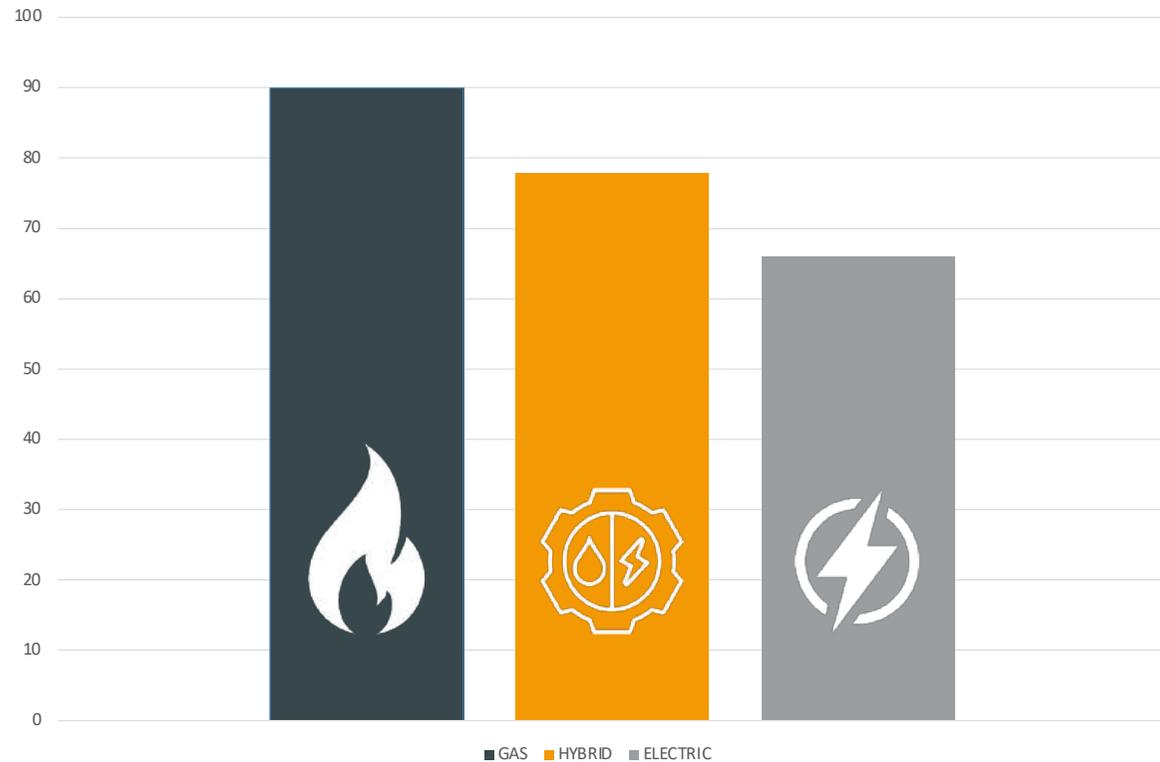
have developed the FT IV cremator.

Average CO₂ Per Cremation



Gas 89.9 KG
Hybrid 77.9 KG
Electric 65.9 KG

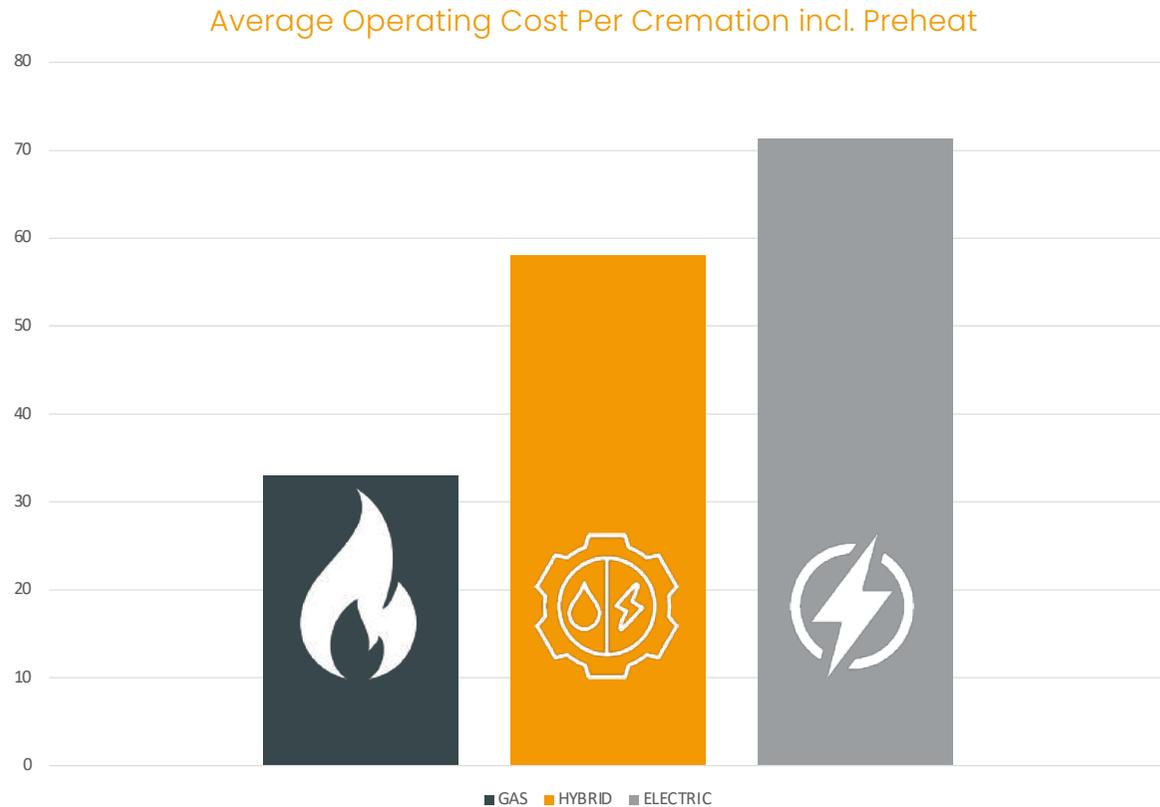
Average CO₂ Burden Per Cremation incl. Preheat



Average Cost Per Cremation



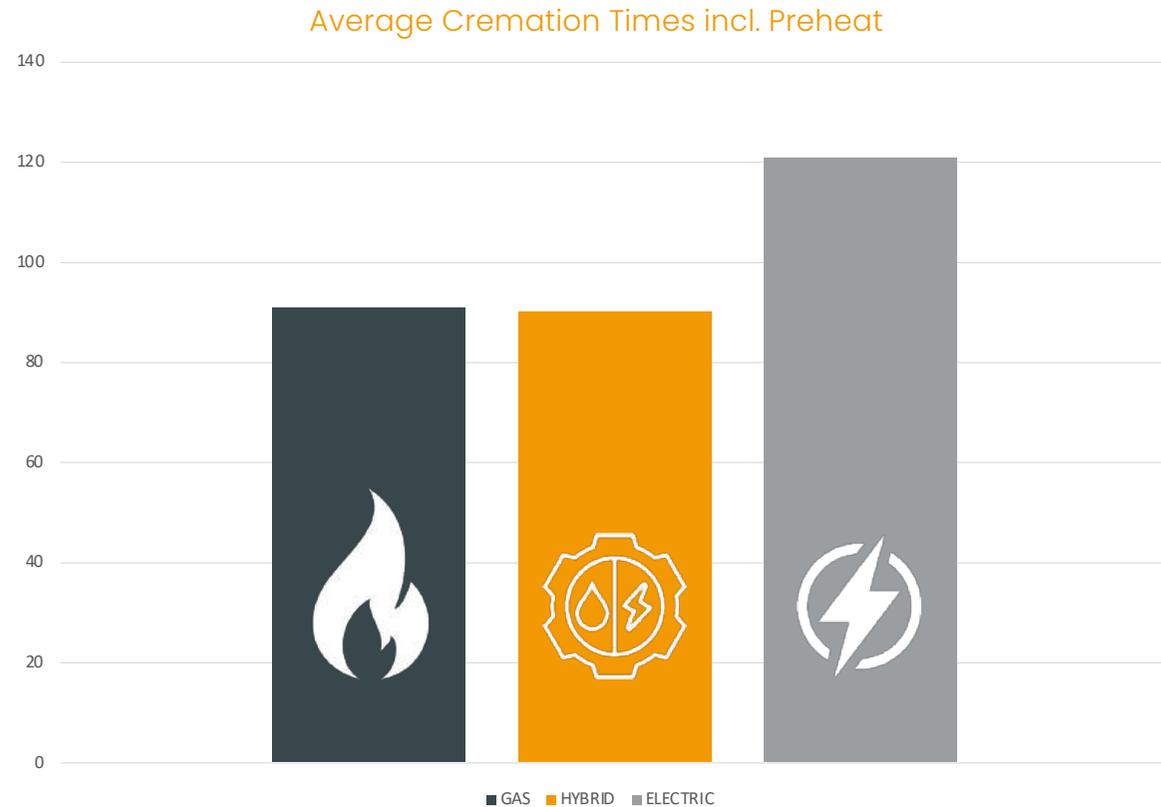
Gas £33.02
Hybrid £58.03
Electric £71.37



Average Cremation Times



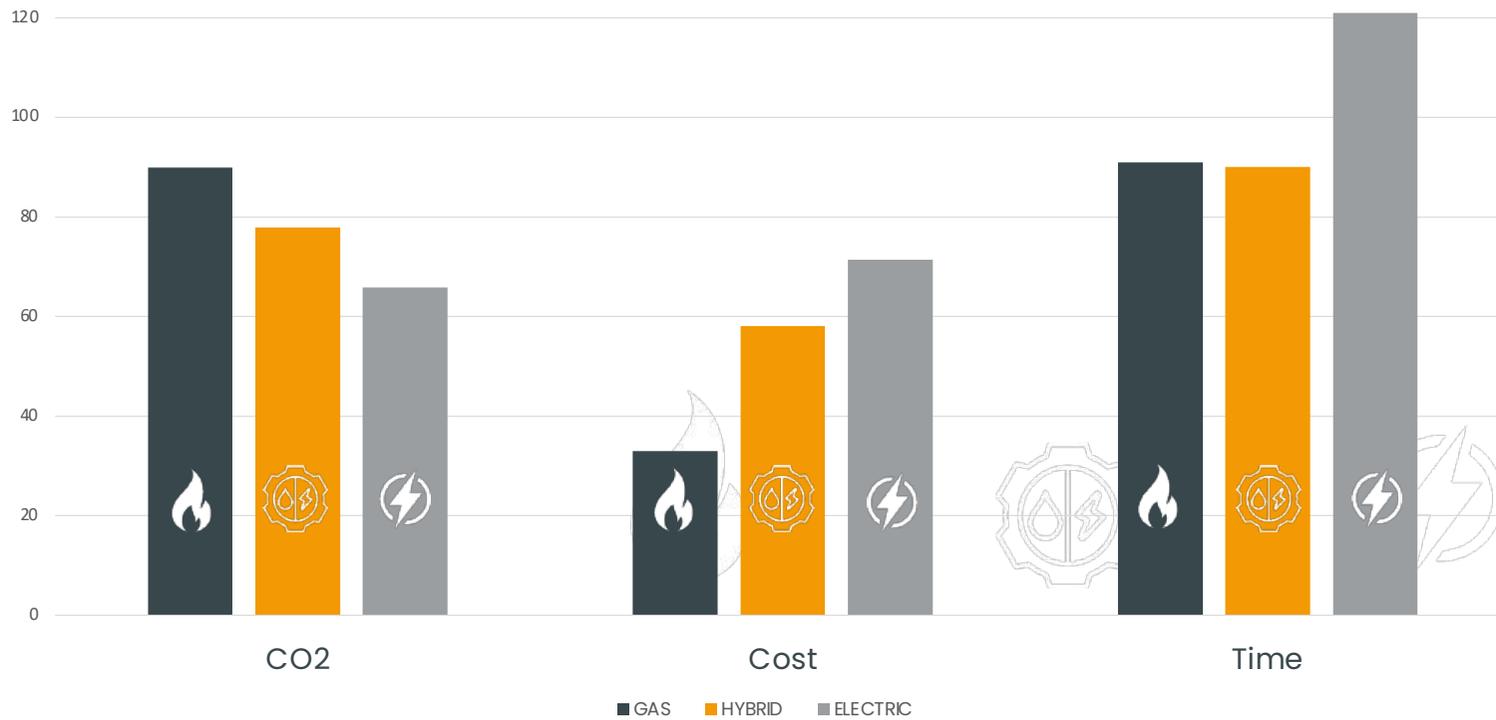
Gas 91 mins
Hybrid 90 mins
Electric 121 mins



Comparison



Comparison between Gas, Hybrid & Electric



Installations



FT are currently installing
2 x FTIV Hybrid Cremators in France, and
the Netherlands.

Both sites are planned to be fully
operational Q3 2025.



FT Connect



FT Dashboard

A modern, web based user-friendly interface that adheres to current standards, making features easily accessible and enhancing efficiency for all users.



FT Connect – Features

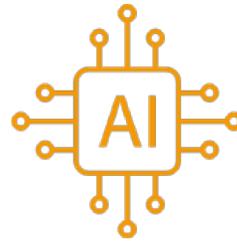


Real-time Monitoring and Report Generation:



A modern, intuitive interface that not only allows real-time monitoring of each cremator but also enables the generation of detailed reports. These reports provide a comprehensive view of equipment performance and facilitate maintenance audits.

Artificial Intelligence for Maintenance Optimization:



Leveraging artificial intelligence, our solution anticipates maintenance needs and optimizes intervention intervals to ensure optimal performance of each piece of equipment. This predictive maintenance approach reduces unexpected downtime, enhances equipment durability, decreases maintenance contract costs, and maximizes operational efficiency.

Enhanced Customer Satisfaction:



A tool designed to provide technicians and managers with easy access to information, improving customer service and ensuring prompt and effective interventions.

Cost and Energy Efficiency Management:



Advanced features for tracking costs and energy efficiency that help reduce expenses and enable sustainable management of cremation equipment. Since its inception, FT has prioritized environmental responsibility, striving to optimize every aspect of its operations for a more planet-friendly impact.

Other Gas Saving



UK Legislation is 800°C at 2

Second Residence

- We have trailed at 800°C for 1

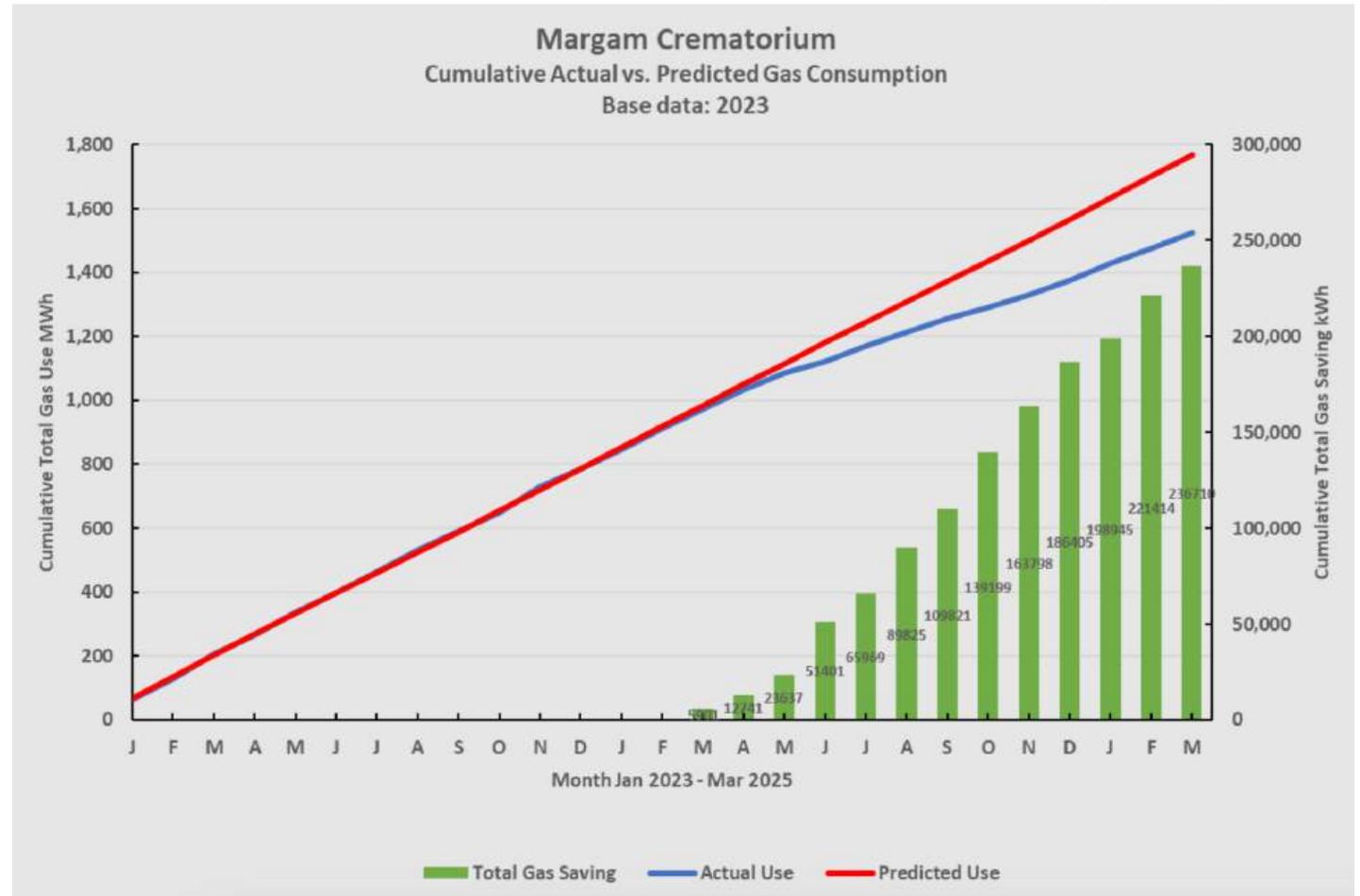
Second = Saved over 237,000kWh of

Gas (~30%). No impact on pollutants

or emissions

- We are looking to test at 750°C for 2

Seconds and then 1 Second.



Q&A



Thank you

Questions?



Contact Me



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