



A CUSTOMER SUCCESS STORY

How a leading semiconductor manufacturer reduced their total cost of ownership with a simple abatement upgrade

Edwards
semiconductor
Intelligent
service

Introduction

Semiconductor Fabs use a wide range of chemicals, gases, and equipment. It requires abatement systems to safely handle and dispose of toxic and environmentally harmful gases that are produced during various manufacturing processes.

These systems are essential for both worker safety and environmental protection.



What is Edwards engagement in managing environmental commitments?

Edwards abatement performance has a significant impact on end-user factory greenhouse gases emissions. In 2022, we have prevented 20 metric tons of CO2 emissions at our customers' facilities, equaling the scale of emissions in cities like Milan, Barcelona, and Madrid. Our guiding motivation is to Remove, Reduce, Reuse, and Recycle

Edwards is a founding member of the Semiconductor Climate Consortium, the first forum to bring into review the whole ecosystem of the industry.



The challenges our customer faced

This customer is a major semiconductor manufacturing company, with more than 2,700 employees. Their main products is memory DRAM.

Abatement cost control and Fab footprint were of critical concern. With limited space, not all processes had a mutual abatement backup.

The short life span of typical abatement liners affected production output, especially for the thin film section, PECVD process.

For the non-backup system, whenever the liner failed, production had to stop for critical maintenance tasks.

This had a negative impact on production output and the cost of ownership. It was clear that something had to change: they needed a solution to make things easier, smarter, and more cost-effective.



Do you know how many hours are needed for a scheduled service stop on the combustor on abatement system?

4-8
HOURS

**For two qualified
engineers**

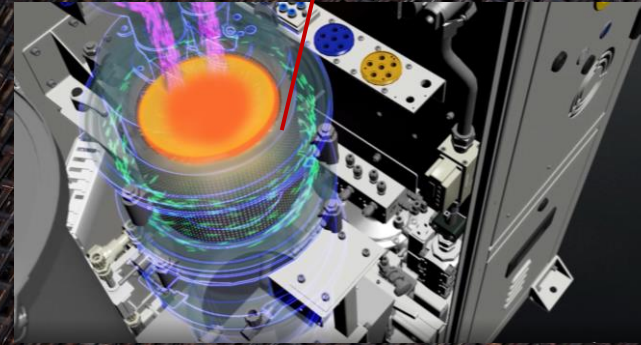
The key to unlocking the problem

Edwards innovative Liner Pro, a next-generation liner designed to deliver superior performance, longevity, and cost efficiency, offered the solution.

Crafted from a high-performance, corrosion-resistant material, Liner Pro is engineered for easy maintenance, requiring no more than **30 minutes** for a complete cleaning procedure.

This streamlined process ensures that the liner does not become a bottleneck in abatement operations, as the cleaning procedure is conveniently integrated into regular preventive maintenance (PM) schedules.

Liner lines the combustion chamber

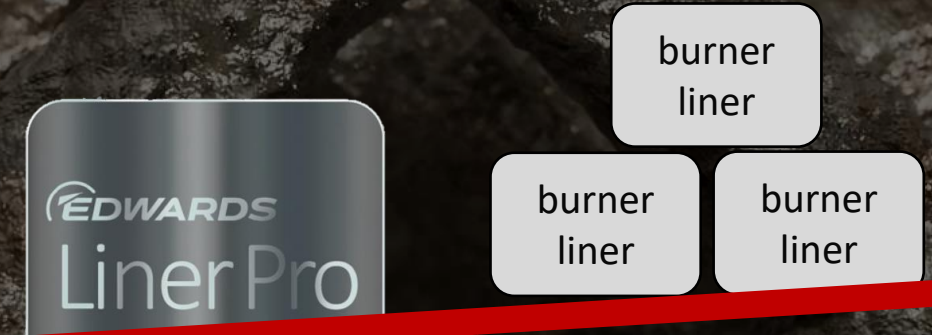


EDWARDS
Liner Pro

More benefits from Liner Pro

This improved liner technology is a plug-and-play solution, maintaining the same footprint of the existing component, making it ideal for both current installed bases and new installations.

With enhanced durability and reduced unexpected maintenance needs, Liner Pro represents a significant advancement in abatement system technology, offering a smarter, more sustainable solution for modern semiconductor manufacturing environments.



Lifespan

1 liner pro = at least 3 burner liners

Highly durable and
reusable



+

High-temperature
resistance



+

Fuel efficiency



=

Reduced liner cost
of ownership



Customer testimonial


Liner Pro

“

The new Liner Pro from Edwards has made a noticeable difference in our maintenance routine. It is easy to clean and fits right into our existing schedule without causing any delays. The installation was seamless, and we have appreciated the improved durability and reliability.

”

Operations Lead
Leading Semiconductor Manufacturer

Contact

To discuss your service options,
request a consultation with our team at

consultation@edwardsvacuum.com

Or search for “Liner Pro” on our website

www.edwardsvacuum.com



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