

Introduction



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enVerid Systems develops products that deliver **cost savings** and **healthier indoor air quality (IAQ)** for the **built environment**.

Our mission is to make **the world a cleaner, healthier place** - both inside and out.

We achieve this mission with innovative **air scrubbing** and **filtration** technologies.



Our expert team will support your success



Experienced Leadership Team



Christian Weeks
CEO

Experienced energy services executive, EnerNOC, Enel X, HBS



Udi Meirav, PhD
President & CTO

Technology executive and research scientist, PhD in Physics, MIT



Doug Engel

Sales & Marketing

20 years HVAC sales and marketing with Johnson Controls, ME Purdue



Marwa Zaatari, PhD

Advisor

IAQ expert, PhD in Architectural & Enviro. Engineering, UT Austin



Alex Goodwin

Product Management

Hardware and Industrial IoT product mgmt. executive, MIT and HBS



Israel Biran, PhD

International

Cleantech and biotech entrepreneur, PhD in Biotechnology, Tel Aviv

Backed by Leading Climate Tech & Built Environment Investors



Leading cleantech fund backed by prominent private investors



Experts and strong network in the built environment



Largest building materials company in Southeast Asia



Family office connected to a very large, global real-estate portfolio



Extensive global network with Multinational Companies

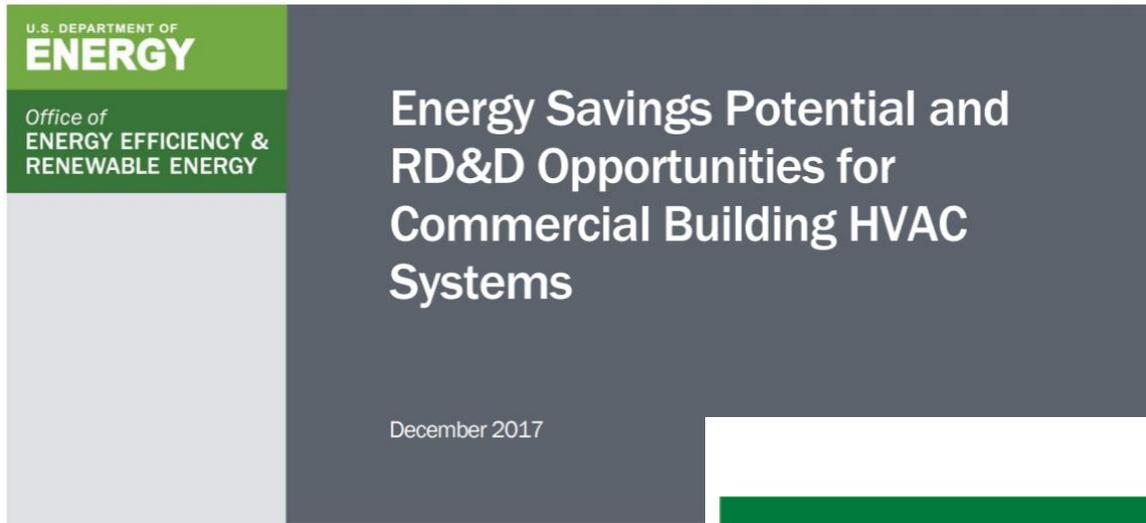
Serving the Industry



- **Insights and Education:** White Papers, Webinars, & Blog Posts
 - Ventilation, Filtration, IAQP, IAQ, COVID, OA Pollution
- **Innovation and Data Driven:** 70+ patents, rigorous 3rd party tested products
- **In the News:**



DOE: HLR is Top 3 HVAC energy saving technology



“From an initial list of over 300 technology options, we selected a final set of 18 high priority technology options for further evaluation that could provide significant HVAC energy savings for U.S. commercial buildings.”

Ventilation Reduction through Advanced Filtration (only offered by enVerid) came in #3 overall

Table 1: High Priority Technology Options by Category

Technology Category	Technology Option (#)*	Technical Energy Savings Potential (Quads/yr.)	Final Ranking
Technology Enhancements for Current Systems	Advanced HVAC Sensors (1)	0.63	3.85
	Building-Integrated Heat and Moisture Exchange Panels (2)	0.53	3.70
	Ventilation Reduction through Advanced Filtration (3)	0.25	3.10
	Surface Coatings for Liquid Friction Reduction (4)	0.12	2.55

“enVerid’s specialized adsorbent filters capture CO₂ and other contaminants from the return airstream, which allows purified air to recirculate throughout the building and reduces the amount of outside air required.”

Industry validation: AHR Expo Industry Awards



“enVerid’s first-of-its-kind solution safely removes all molecular contaminants, including carbon dioxide (CO₂), formaldehyde and a full range of volatile organic compounds (VOCs) from indoor air.”

ASHRAE press release

Judges commented that the enVerid HLR technology “was not only innovative, but visionary,” and called it “an industry game-changer.”

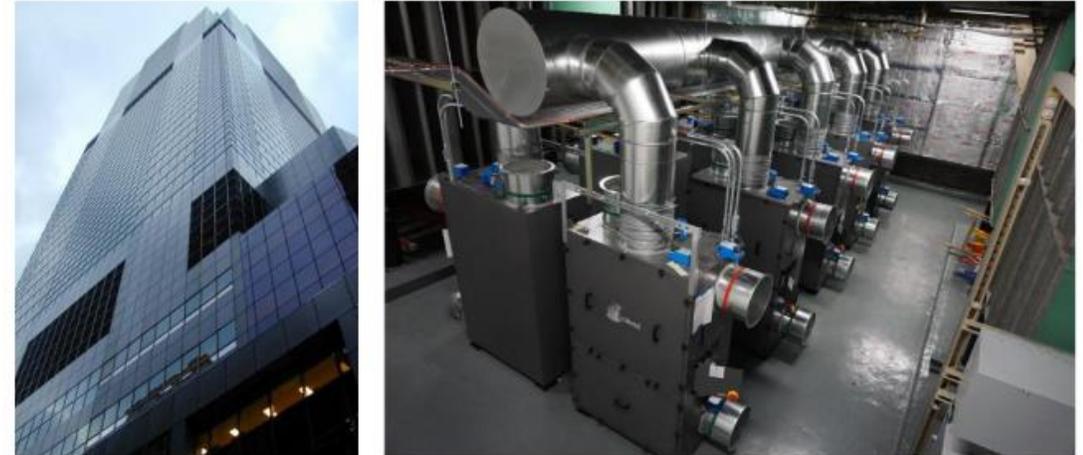
Deployed in over 10 million ft^2 of commercial buildings



Sampling of existing customers and engineering firms using HLR technology



Financial Services Headquarters, New York City (10 of 40 units installed inside)

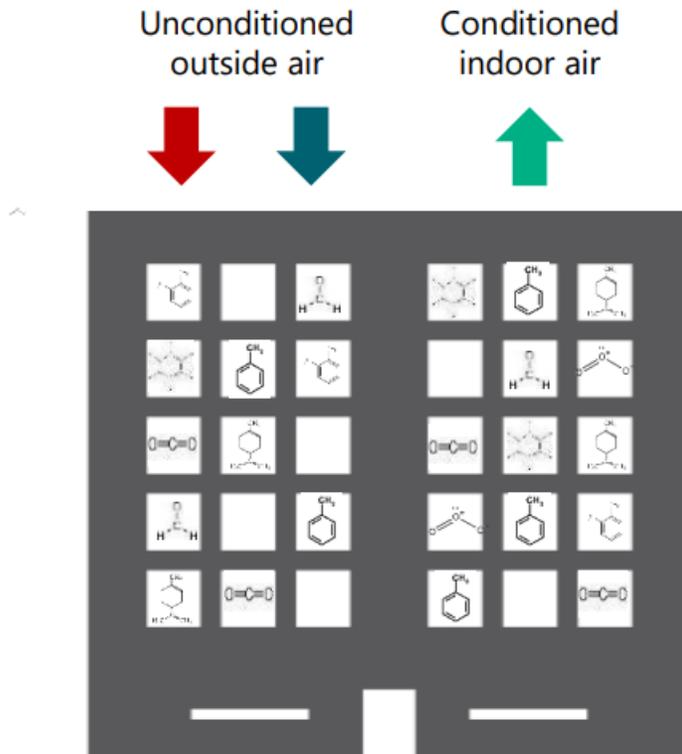


Washington DC Elementary School (2 of 3 units installed on the roof)



Indoor air replacement is **costly** + **counterproductive**

All the air in a typical building is replaced every 1-2 hours to dilute indoor contaminants



Problem #1

Constant replacement of indoor air is **expensive**

- 30-40% of energy consumption is for conditioning outside air
- HVAC systems are often oversized to support more outside air

Problem #2

Outside air is often **unhealthy**

- Particulate matter & ozone pollution pose serious health threats
- High levels of pollution have been linked to COVID cases

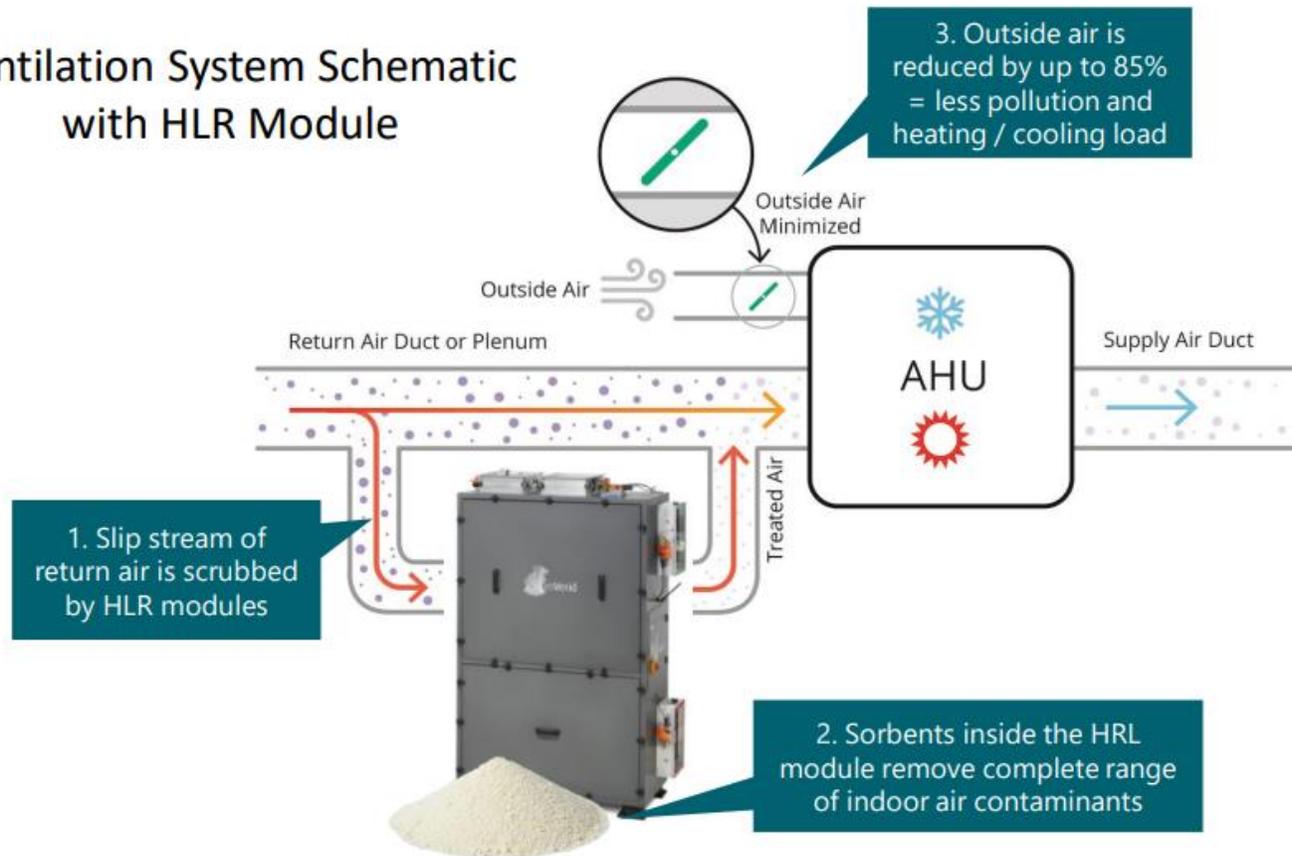
HLR modules scrub gases from indoor air, reduce outside air



HVAC Load Reduction (HLR[®]) Module



Ventilation System Schematic with HLR Module



enVerid HVAC Load Reduction[®] (HLR[®]) modules reduce required outside air by up to 85%

Scrubbing indoor air **saves money** and **improve health**



OpEx

Up to 30% of HVAC Energy Savings



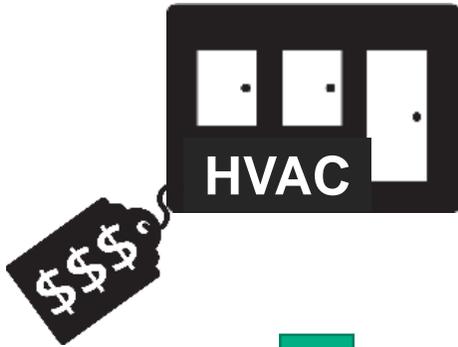
Air Quality

Improve Air Quality & Lower Carbon Emissions



Green Buildings

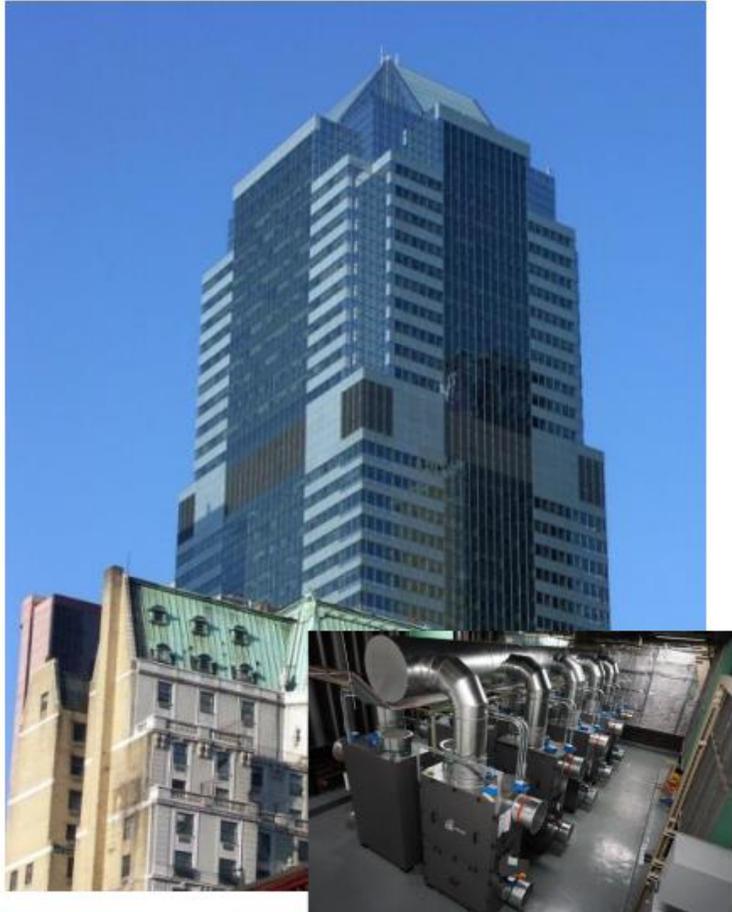
Up to 20% of Points for LEED Platinum



CapEx

Net Capex Savings on HVAC Equipment

Case Study: Energy Savings, IAQ, GHG reduction

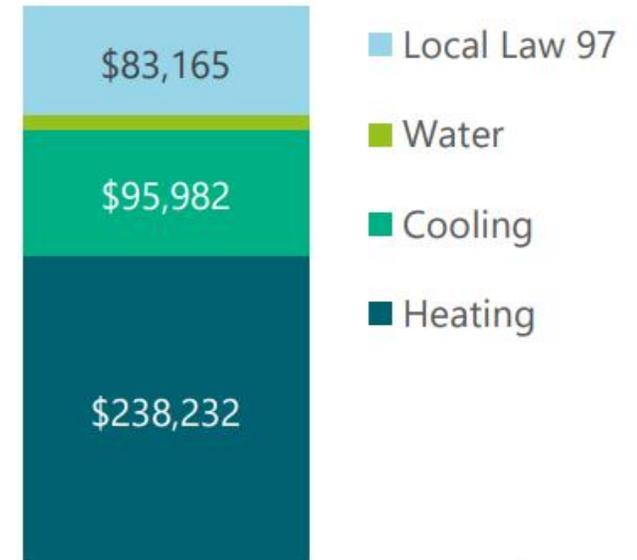


Headquarters Building, NYC

- 44 floors Class A office
- 1.35M square feet
- 40 HLR modules deployed in 2017
- 85% reduction in outside air
- \$345k in annual heating, cooling, and water savings (~2-yr. payback)
- \$80k Local Law penalty avoidance (starting in 2024, 310 MT/yr)
- Improved Indoor Air Quality (IAQ)

Annual Cost Savings

\$428,990



Annual Savings*

"This project demonstrated both energy savings and an improvement in IAQ immediately upon completion."

Marc Hourican, PE, Syska Hennessy

* Savings calculated for the twelve months ending March 2020; Local Law 97 penalty estimated as of July 2019

Case Study: Negative “first cost” from downsizing

Solis Cohen Elementary – PA (10 units)

Reduced CFM required from 45,000 to 17,500
\$200k CapEx Deduct (net after HLR Module cost)



Princess Ann Middle School – VA (9 units)

Reduced CFM required by 11,000
\$100k Capex Deduct (net after HLR Module cost)



Thoroughgood Elementary – VA (10 units)

Reduced CFM required by 9,000
\$60k Capex Deduct (net)



Case Study: Significant number of LEED & WELL points



THE WELL BUILDING STANDARD™

SEVEN CONCEPTS FOR HEALTHIER BUILDINGS



- New constructions can use HLR technology to earn up to 12 LEED points
- Existing buildings can use HLR technology to earn up to 17 LEED points

- New constructions and retrofits can earn up to 2 preconditions and 5 optimization points in the Air concept



The Collaboratory, Southwest Florida Community Foundation, Fort Meyers, FL
The 7 LEED points earned through pilot credit EQpc124 using HLR technology helped The Collaboratory become the first project in Florida to be certified as LEED BD+C New Construction v4 Gold. The inclusion of enVerid's HLR modules increased the rating from LEED Silver to LEED Gold.



Thank you

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