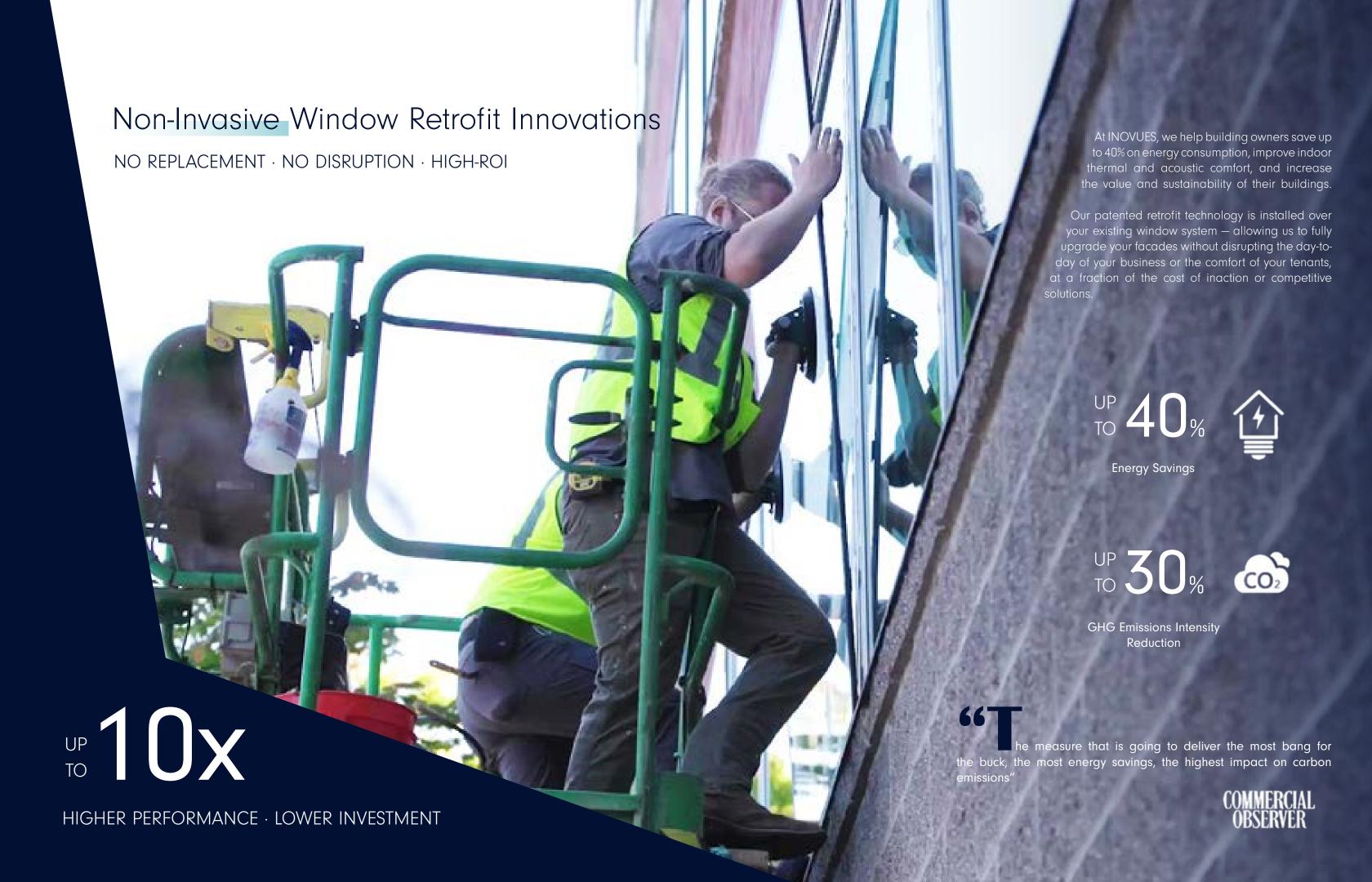




Re-Energizing
Building Facades













ENERGY RETROFITS

FACADE REBRANDING

QUIET FACADES

FUTURE-PROOFING

UP TO 10X FASTER PAYBACK THAN TRADITIONAL SOLUTIONS

In addition to energy efficiency and CO2 reduction, INOVUES offers a variety of benefits that increase your property value and maximize ROI.

- Carbon Reducing: Our upgrades can provide points towards green building certifications, like LEED or Energy Star—helping you earn tax credits and avoid regulatory fines.
- **Enhanced Image:** Our aesthetically inspired design options modernize exteriors and increase curb appeal.
 - Increased Comfort: Improved acoustic and thermal comfort increases occupant satisfaction and productivity, tenant retention, and net operating income.

his type of technology provides a range of energy and non-energy benefits. Even if you have primary windows that are in good condition, it helps with thermal comfort and outside noise attenuation, creating a more comfortable space around the perimeter of the building."

 Rick Dunn, Senior Product Manager Building Envelope, Northwest Energy Efficiency Alliance (NEEA)

NOVUES' retrofit technology is affordable and easy to implement, and it blends with the facade. Its impact on indoor comfort has been significant over the past three years... I was amazed by the professionalism of the installation and I am still excited about the high and long-lasting quality of the window upgrade here at Saint-Gobain's R&D center in Northborough, MA."

- Sven Harmsen, Director External Ventures, NOVA, Saint-Gobain

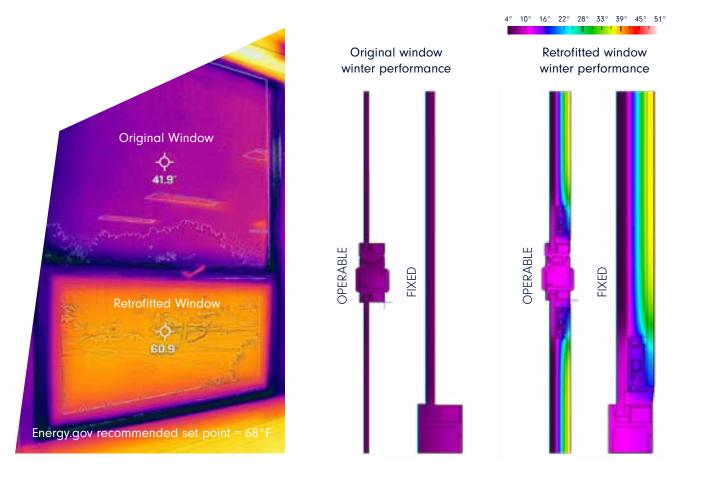












The INOVUES system is compact and lightweight, typically adding <1'' total thickness and 2 to 3.5 lb/ft^2 total weight, depending on the glass used. It is applicable to both fixed and operable windows.

At University of Minnesota, infrared IR imaging (above left) shows 19°F difference between the retrofitted window on the bottom and the colder original window on the top. At 60.9°F, the retrofitted window is much closer to the recommended thermostat set point of 68°F, demonstrating it is significantly better at reducing heat loss. Thermal modeling analysis (above right) reveals the IGR system roughly doubles the overall insulating properties of both the fixed and operable windows.

n opportunity for the UMN facilities team to live through the process and experience first-hand the improvement in indoor thermal and acoustic comfort that these retrofits can achieve, in addition to energy savings"



SWR

BREATHABLE SECONDARY WINDOW RETROFIT (SWR) SYSTEM



	Before	After (w/ Solar Low-E)	After (w/ VIG)
Glass	1/4" Clear	+ 1/4" Solar Low-E Clear	+ Vacuum Insulated Glass
	(Single-Glazed)	(Double-Glazed)	(Triple-Glazed)
U-Value (Total)	1.04 Btu/hr ft ² F	0.42 Btu/hr ft ² F	0.21 Btu/hr ft ² F
	5.92 W/m ² K	2.39 W/m ² K	1.18 W/m² K
R-Value (CoG)	0.96	2.77	10.99
SHGC	0.75	0.47	0.31
VLT	80	39	56

Engineered solution eliminates dust and heat build-up that could cause thermal stress, fogging, and condensation. Installs quickly from the interior. Ultra-slim profile available in multiple colors.

REUSE · REDUCE



NON-INVASIVE INSULATING GLASS RETROFIT (IGR) SYSTEM



			5
	Before	After (w/ Solar Low-E)	After (w/ VIG)
Glass	1/4" Clear	+ 1/4" Solar Low-E Clear	+ Vacuum Insulated Glass
	(Single-Glazed)	(Double-Glazed)	(Triple-Glazed)
U-Value (Total)	1.04 Btu/hr ft ² F	0.50 Btu/hr ft ² F	0.32 Btu/hr ft ² F
	5.92 W/m ² K	2.85 W/m ² K	1.78 W/m ² K
R-Value (CoG)	0.96	2.92	10.99
SHGC	0.75	0.34	0.31
VLT	80	64	48

Compatible with most windows and curtain walls, fixed or operable, as an exterior or interior retrofit.

- **Highly Compact and Lightweight**: 1" total added thickness with 1.5" frameless-looking sightline and as low as 2 lb/sq. ft. total added weight.
- Insulating Cavity: 0.63" hermetically-sealed air gap, utilizing multiple primary and secondary seals and desiccants for longer service life.
- Validated Performance Improvement: Certified by the Attachments Energy Rating Council (AERC).



FUTURE-PROOF FACADES

UPGRADE TO THE LATEST GLASS INNOVATIONS WITHOUT REMOVAL



RENEWABLE

LATEST GLASS TECHNOLOGIES AS ADD-ON



Once the INOVUES glass retrofit system is installed, it transforms the facade into a continuously renewable asset. It is easily upgradeable, and as glass technologies and aesthetics continue to evolve, it allows the building to be affordably brought up to the highest sustainability and modernization standards of the day.

THE CONCEPT IS SIMPLE. THE INNOVATION IS IN HOW IT'S DONE.

Our team of experts is involved in the upgrade process from start to finish. We work directly with you to identify your property's specific structural requirements and efficiency targets, make recommendations, and handle the retrofit from design and rebate assistance to financing and installation. The process below is an outline of a full-scope project, but many of the steps apply to partial projects where applicable.

- Nothing Is removed or replaced
- Tailored to your unique existing window / facade conditions
- Scalable from a full-facade energy retrofit to a single floor or tenant fit-out
- Countless Glass Options: from modern energy-saving and sound-insulating safety glass to cutting-edge technologies like dynamic, transparent PV, and R-10 vacuum insulated glass

BUILDING SURVEY

ENERGY MODEL & ANALYSIS

TAILORED RETROFIT SOLUTION (IGR OR SWR)

PRELIMINARY COST-BENEFIT ANALYSIS EXPERT ASSESSMENT OF EXISTING FACADE

COMPREHENSIVE COST-BENEFIT ANALYSIS

VISUAL / PERFORMANCE MOCK-UP

INCENTIVE & REBATE APPLICATION ASSISTANCE

FINANCING OPTIONS

FABRICATION & INSTALLATION

MEASUREMENT & VERIFICATION

PROJECT ESG REPORT TO TENANTS & STAKEHOLDERS

OUR PROCESS

multiple-award winning startup that has already participated in several accelerators and been recognized by Bill Gates' Breakthrough Climate Action Playbook... A simple but effective solution to upgrading old infrastructure that leaks energy"

Forbes



MODERNIZING BUILDINGS FOR A BETTER FUTURE



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