

enhancing **looks**  
improving **value**  
saving **energy**

# apogee **renovation**

distinctive solutions for renovating commercial building envelopes



## our complete renovation **solution**

Optimize energy efficiency and enhance aesthetics of commercial properties with high-performance glass, aluminum framing and window system solutions from Apogee Renovation.

### extensive **BENEFITS**

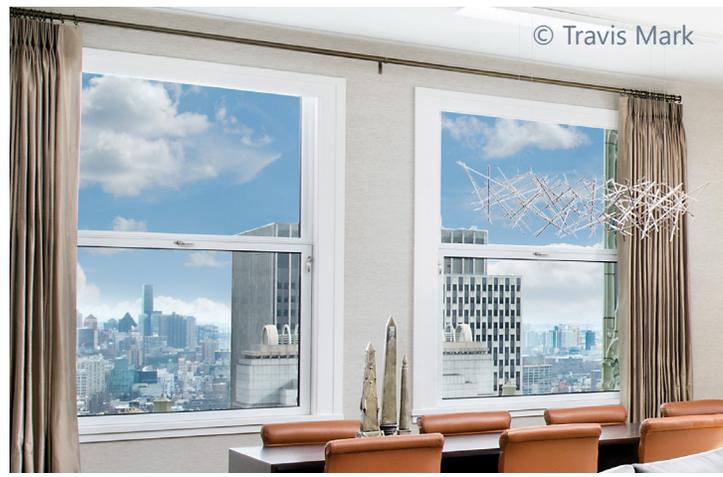
- Improve aesthetics, energy efficiency
- Increase building value
- Reduce maintenance costs
- Add usable floor space
- Protect property, occupants
- Improve occupant well being

### **PRODUCTS**

- glass
- curtainwall
- windows
- storefront
- entrances

### **SERVICES**

- building survey
- energy modeling
- detail and specification assistance
- before and after rendering
- budgeting
- network of installers



# REPLACE

## CASE STUDY: The Woolworth Tower Residences

Luxury condominiums,  
New York, New York

### GOAL

Maintain the prestigious property's historic detailing, while delivering modern-day performance and easy operation

### APOGEE PRODUCTS & SERVICES

Wausau Window and Wall Systems' windows, Linetec finishing and Apogee Renovation energy modeling



# REVIVE

## CASE STUDY: ANB Bank Building

Office and retail building  
Cherry Creek, Colorado

### GOAL

Revitalize 1980s exterior into a modern, high-performance glass and metal facade that better suits its 21st century tenants and those visiting the upscale destination

### APOGEE PRODUCTS & SERVICES

Viracon glass and Apogee Renovation energy modeling

# REDEFINE

## CASE STUDY: 195 Church Street

Office building,  
New Haven, Connecticut

### GOAL

Significantly improve the building's energy efficiency and enhance occupant comfort

### APOGEE PRODUCTS & SERVICES

Wausau Window and Wall Systems' windows, Linetec finishing, Viracon glass and Apogee Renovation energy modeling

**apogee energy modeling** demonstrates savings, payback

**provides comparative building energy performance**

annual energy use, peak demand, carbon emissions, daylight, glare, condensation

**inputs include**

facade orientation, window to wall ratio, framing system type, glass type



# WE CAN HELP.



apogee resources

### architectural glass

**Viracon** | The leading North American fabricator of high-performance, custom-coated architectural glass for global markets

### architectural framing systems

**Alumicor** | A Canadian-based supplier of arch. aluminum building envelope products

**EFCO** | A leading manufacturer of architectural aluminum window, curtainwall, storefront and entrance systems

**Linetec** | A leading architectural finishing company, offering high-performance paint and anodize finishes for aluminum

**Sotawall** | A full-service designer, manufacturer and installer of proprietary high-performance unitized curtainwall systems

**Tubelite** | A leader in eco-efficient aluminum storefront, curtainwall & entrance systems

**Wausau Window and Wall Systems** | A leading designer and manufacturer of energy-efficient, custom aluminum window and curtainwall systems

### architectural services

**Harmon** | One of the largest U.S. full-service building glass and curtainwall installation companies

### building survey

Determine conditions, perform thermographic inspection, recommend upgrades

### energy modeling tool

Utility-grade, whole-building energy modeling

### specification assistance

Review performance requirements

### detail assistance

Architectural drawings of window and curtainwall products

### budgeting

Provide installed options

### network of installers

Recommend quality, authorized installers across North America

### renderings

Visual representation of retrofit

apogee services

## apogee renovation

Apogee Renovation provides high-performance glass, aluminum framing and window system solutions to optimize energy efficiency and enhance aesthetics of commercial properties.

With these solutions, building owners and developers can reduce energy costs, increase tenant satisfaction and improve overall value of their buildings.

To learn more, contact Kevin Robbins at [krobbins@apog.com](mailto:krobbins@apog.com) or 715-409-0821 or visit [apogee renovation.com](http://apogee renovation.com).

### ABOUT APOGEE

Founded in 1949 | Financially strong with over \$1.4 billion in sales | Traded on Nasdaq, symbol APOG | [www.apog.com](http://www.apog.com)

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