



enterprises, inc.

enhancing **looks**
improving **value**
reducing **costs**

apogee **renovation**

distinctive solutions for renovating building façades



extensive **benefits**
from renovation

Upgrade aesthetics

Improve energy efficiency

Reduce maintenance costs

Incorporate protective upgrades, such as blast, hurricane, RF shielding, ballistic, forced entry

Expand usable floor space by eliminating extreme heat and/or cold at building perimeter

Improve occupant well being with increased daylighting benefits, including productivity; and reduced noise

our complete renovation **solution**

Enhance the aesthetics and energy efficiency of your building with glass and aluminum framing systems from Apogee Renovation.

PRODUCTS

glass
curtainwall
windows
storefront
entrances

SERVICES

building survey
energy modeling
specification assistance
detail assistance
budgeting
network of installers



PRESERVE.

historical look with today's energy-efficiency



Wyandotte High School, Kansas City, Kansas

apogee energy modeling demonstrates savings, payback



Provides comparative building energy performance

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

Inputs include

façade orientation | window to wall ratio | framing system type | glass type

CASE STUDY
Soho House Chicago

Hotel, private club for creative community

Goal
Transform 1900s factory building into modern hotel and private club while maintaining historic aesthetics

Apogee retrofit products
500 historically accurate aluminum windows with thermal performance

Apogee companies involved
Windows from Wausau Window and Wall Systems, with aluminum finished by Linetec

Edith Green-Wendell Wyatt Federal Building, Portland, Oregon

adding value with a **modern façade**

REVAMP.



Prudential I Tower, Chicago, Illinois

CASE STUDY

Prudential Plaza, Chicago - Prudential I Tower

Renovation of 1955 Class A high-rise office tower with single-pane windows

Goal
Restore façade for improved aesthetics and comfort for building tenants, improving leasing success

Apogee retrofit products
>1200 energy-efficient windows with low-e glass; windows also meet high design pressures needed due to proximity to Lake Michigan

Apogee companies involved
Windows from Wausau Window and Wall Systems, with glass from Viracon and aluminum framing finished by Linetec

SUNY D&H Administrative Building
Albany, New York

Eastern Washington University - Showalter Hall
Cheney, Washington

Westin Peachtree Plaza
Atlanta, Georgia

known for our **quality** products
backed by our superb **customer service**

WE CAN HELP.

apogee **resources**

GLASS

Viracon

World leader in architectural glass fabrication

ALUMINUM WINDOW, CURTAINWALL, STOREFRONT, ENTRANCE SYSTEMS

Wausau

U.S. manufacturer of windows, curtainwall

Tubelite

U.S. manufacturer of storefront, curtainwall, entrances

Alumicor

Canadian manufacturer of storefront, windows, curtainwall, entrances

Linetec

Aluminum painter, anodizer

apogee **services**

BUILDING SURVEY

Determine conditions; recommend upgrades

APOGEE ENERGY MODELING TOOL

COMFEN – Lawrence Berkeley, University of Minnesota

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

READY TO LEARN MORE? Apogee Enterprises, Inc.'s Building Retrofit Strategy Team assists building owners and property managers evaluate the benefits of historic window renovation and upgrades. To learn more, please contact John Bendt at jbendt@apog.com, 612-790-3137; or Kevin Robbins at krobbins@apog.com, 715-409-0821.



ABOUT APOGEE Founded in 1949 | Financially strong with ~\$1 billion in sales | Traded on Nasdaq under symbol APOG | www.apog.com