Upgrade to High-Performance Windows

+ $75,000  Premium for installed glazing
- $150,000  Eliminate perimeter heating system

= $75,000 first cost savings

plus $300,000 (35kW) in PV system downsizing
Plug Loads Annual Energy Consumption

- Current:
  - Fax Machines
  - Microwaves
  - Color Laser Printers
  - Dishwashers
  - Refrigerators
  - Coffee Makers
  - Desktop Printers
  - Scanners
  - Laptop PCs
  - Miscellaneous
  - Full-Size Copier
  - AV Equipment
  - Desktop PCs
  - Task Lights
  - Elevators
  - PC Monitors
  - Water Coolers
  - Servers

- Recommended:
  - Same as current

58% reduction

Courtesy of Rumsey Engineers
3.0 kbtu/sf lights

7.5 kbtu/sf plugs
Tracking the Path to Net Zero Energy

Cumulative Net Kilowatt Hours

-40,000
-20,000
0
20,000
40,000


Net Zero Actual Trend Predicted Trend

3/7/2013

of electricity produced by the solar panels minus the amount consumed by all systems in the building.