





case passive • sostenibili • in classe A

Ancona, 18 aprile 2012

Auditorium G. Mantovani

Ex Ente Fieristico Regionale

INTERVENTO DI ALBERTO BALLARDINI -HABITECH

UIICY IIIAKEIS facility managers Sul als architects develop 1ers executive officers interior design engineers Manutactu tallers urban planners product itractors school teachers ed retail store owners building opera

Commercial LEED Registered Projects

Total Currently Registered

32,007[®]

Commercial LEED Certified Projects



(Cumulative)

© U.S. Green Building Council, 2011 *As of September 2011



© U.S. Green Building Council, 2011

*As of September 2011















Morgan Stanley





















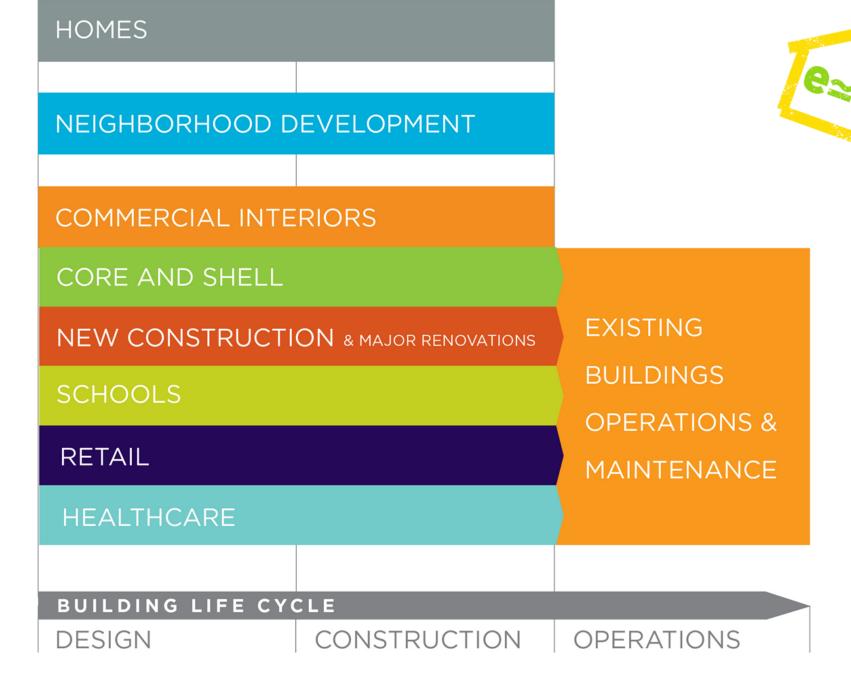


SILVER 50 - 59 punti



CERTIFIED 40 - 49 punti





LEED-NC

LEED-CI

LEED-EB:O&M



whole building

part of a building

whole building

one event

some events

ongoing process

design & construction

design & construction

life of the building

EΒ

operating budget

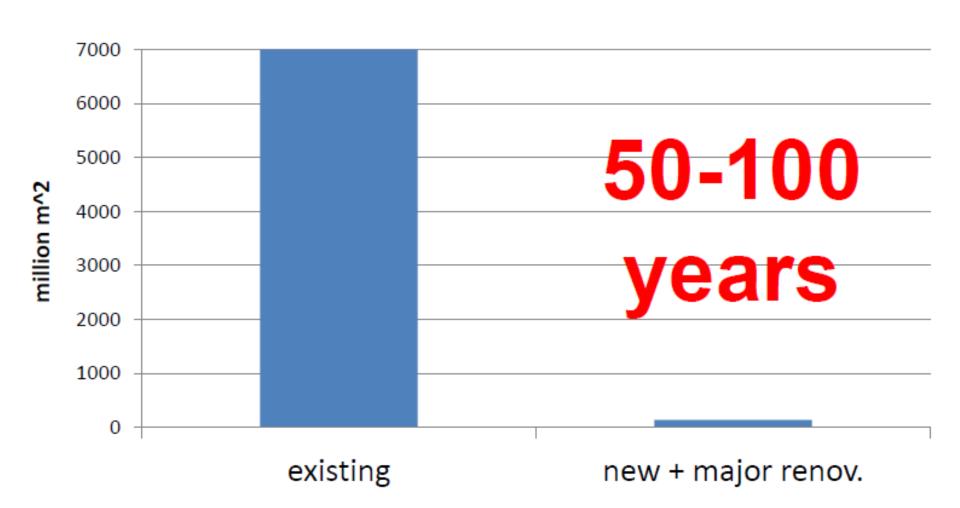
capital budget

capital budget

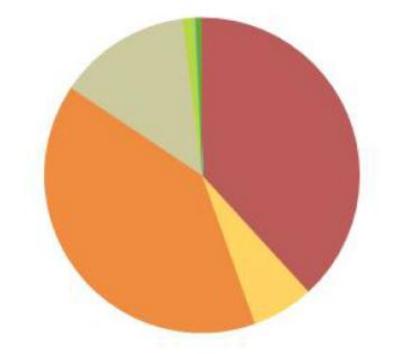
NC

U.S. Commercial Buildings (2009)

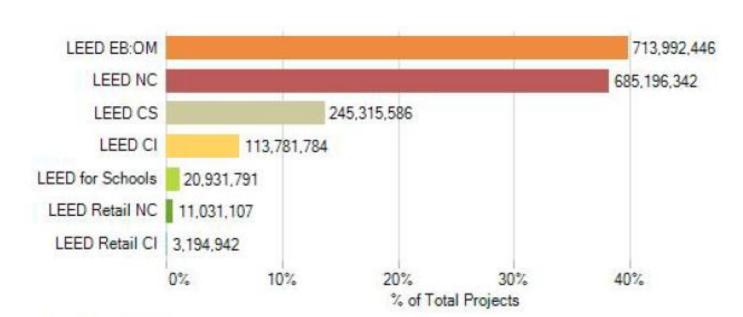




Fonte: Cadmus Group

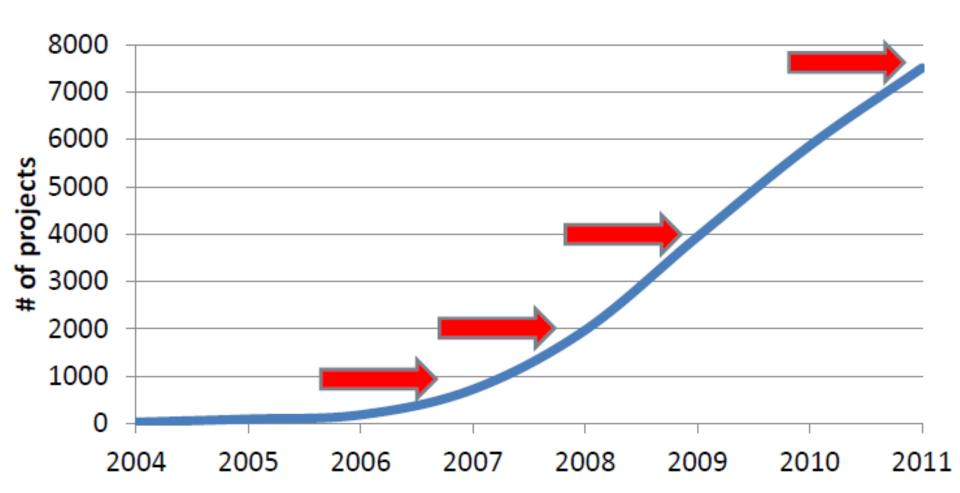






LEED-EB: O&M market growth

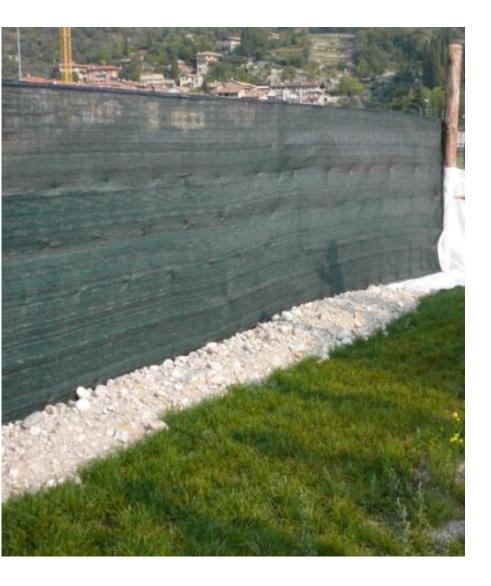




Fonte: Cadmus Group

PROGETTAZIONE INTEGRATA Integrative Process **Design and Construction** Occupancy, Operations, and Performance Feedback CoVO **Bidding and** Prep. **Evaluation** Conceptual Design Schematic Design **Design Development Construction Documents Traditional Process Design and Construction** Schematic Design Design Development **Bidding and** Conceptual Design **Construction Documents** Construction VE Occupancy VE Aspects of the Key Sub-Systems Continuous Value Optimization Workshops and Charrettes Scope Refinement Path Value Engineering

CANTIERI PULITI E SICURI





CANTIERI PULITI E SICURI



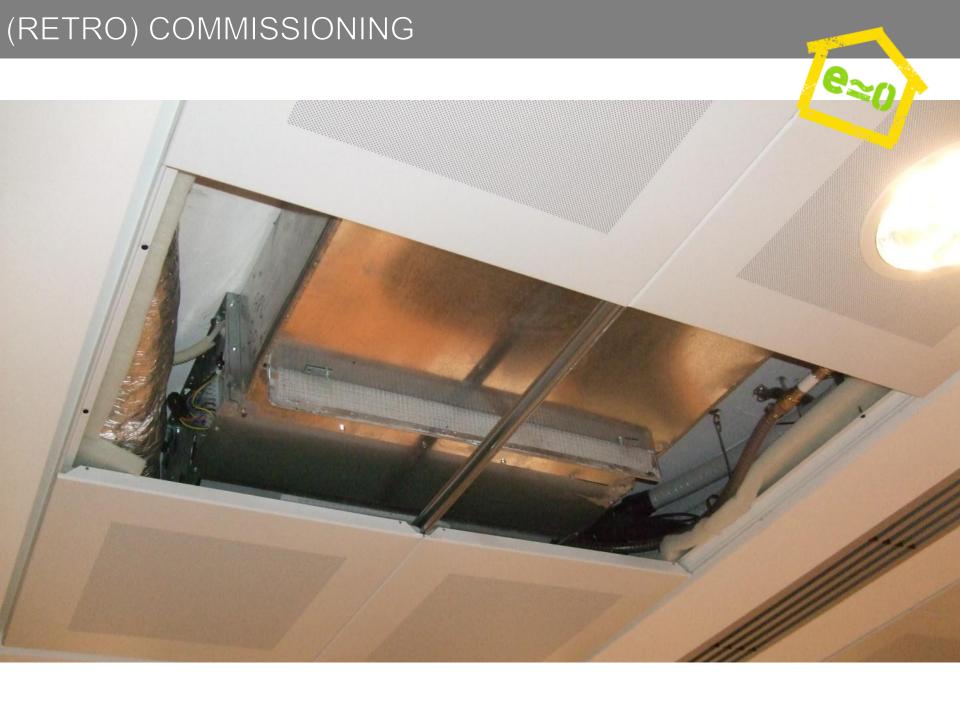


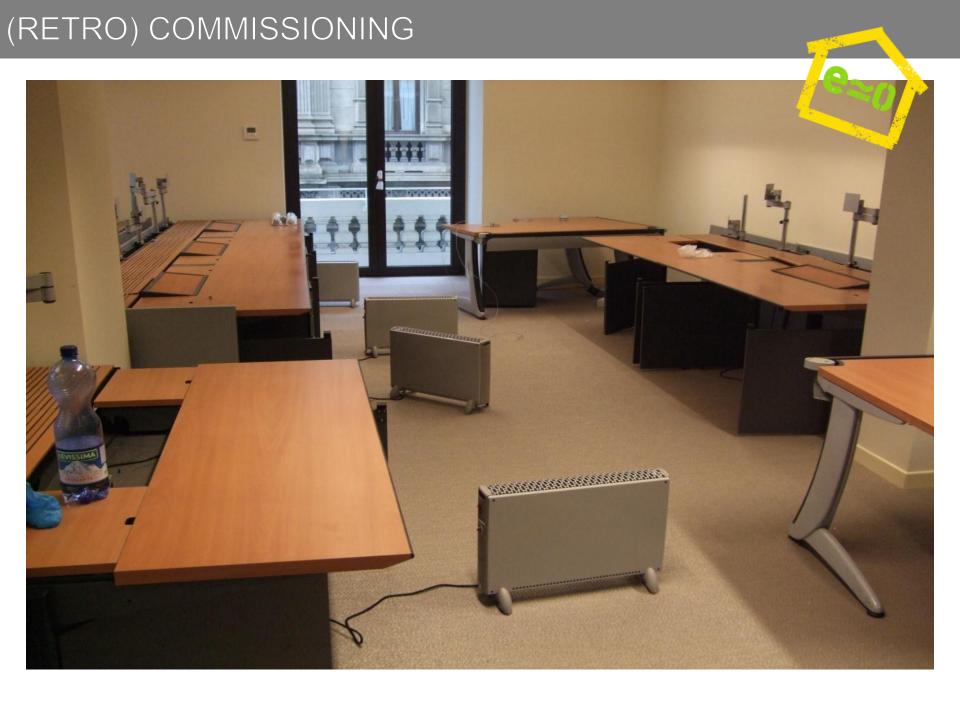
(RETRO) COMMISSIONING

Il Commissioning di un'opera consiste nel verificare che essa:



- sia conforme alle specifiche del Committente e ai dati di progetto
- sia in condizioni di svolgere correttamente le funzioni richieste
- è obbligatorio per tutti i sistemi energetici dell'edificio
- deve essere affidato a un tecnico indipendente da quanti si occupano di progettazione, direzione lavori e realizzazione dell'edificio





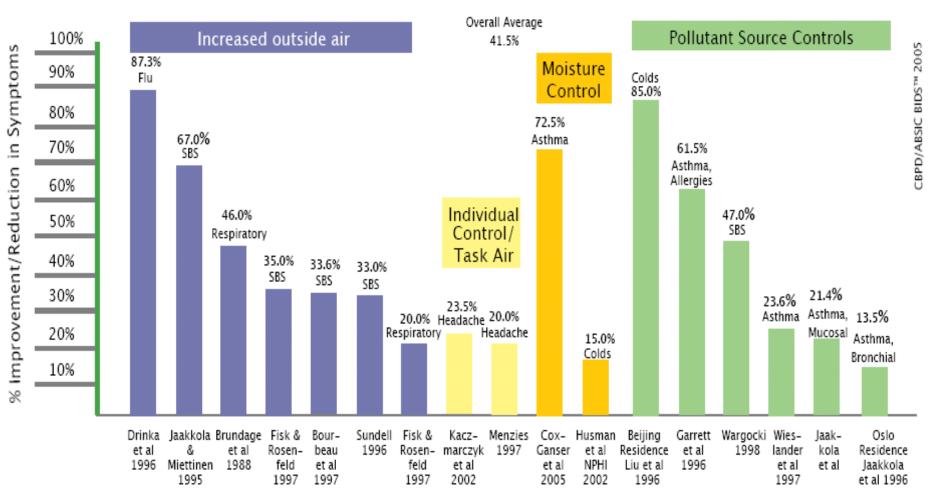
(RETRO) COMMISSIONING



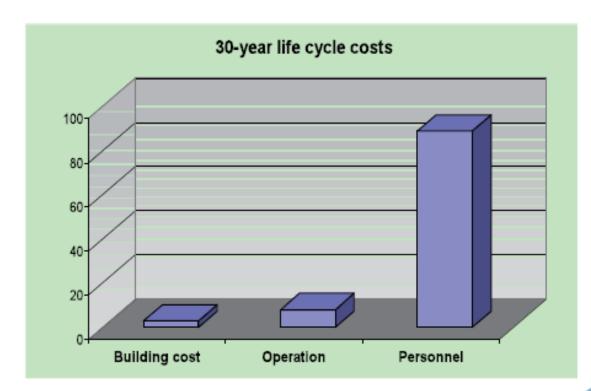
QUALITA' AMBIENTE E PRODUTTIVITA'



Figure B: Health Gains from Improved Indoor Air Quality



QUALITA' AMBIENTE E PRODUTTIVITA'





CONTROLLO
INDIVIDUALE DELLA
TEMPERATURA
INCREMENTA LA
PRODUTTIVITA' DEL
3.6%

- Illuminazione naturale e viste verso l'esterno
- Miglior ventilazione
- Controllo individuale su ventilazione e illuminazione
- Comfort termico

L'ILLUMINAZIONE DI ALTA QUALITA' E PERFORMANCE INCREMENTA LA PRODUTTIVITA' DEL

6.7%

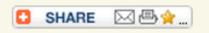
QUALITA' AMBIENTE E PRODUTTIVITA'



Green companies earn more 'green,' new study shows

SHANNON CHAPLA . DATE: MARCH 26, 2012

POSTED IN: ACADEMICS AND RESEARCH



Using LEED-certified (Leadership in Energy and Environmental Design) buildings increases revenue generated by bank branches even when they offer the same products and services, according to a new study co-authored by University of Notre Dame management professors Edward Conlon and Ante Glavas.

In their study of 562 PNC branches (93 LEED, 469 non-LEED), "The Relationship between Corporate Sustainability and Firm Financial Performance," Conlon and Glavas found that PNC employees who work in LEED-certified branches are more productive and engaged in their work.

Although they're not yet certain if it's because LEED buildings are more attractive to visit or because their employees are more satisfied, and consequently providing better service,

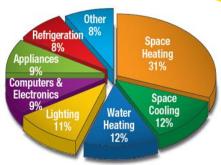
Conlon and Glavas find that sustainability equals a big difference to the bottom line at LEED bank branches— \$461,300 per employee after controlling for other variables that influence performance (e.g., consumer net worth, employee demographics, market demographics, size and age of branch, marketing spend).



IL VERO COSTO E' NON FARLO







18 · Procedures for Commercial Building Energy Audits

PRELIMINARY BUILDING USE 1

Average Hours/Week 42.5 Average Weeks/Year 52

Average Number of Occupants During Normal Occupied Period 800

After Hours Cleaning (y/n) Yes

OVERALL BUILDING SCHEDULE

Schedule during months of January to December

| Days | M | T | w | Th | F | Sat | Sun | Hol. |
|------------------------------------|------|------|------|------|------|-----|-----|------|
| Hours Open | 8.5 | 8.5 | 8.5 | 8.5 | 8.5 | 24 | 24 | 24 |
| Hours Closed | 15.5 | 15.5 | 15.5 | 15.5 | 15.5 | 24 | 24 | 24 |
| Peak no. of occupants | 810 | 810 | 810 | 810 | 810 | 0 | 0 | 0 |
| Avg. no. of occupants when open | 800 | 800 | 800 | 800 | 800 | 0 | 0 | 0 |



IL VERO COSTO E' NON FARLO

e≥0

Adobe Towers - San Jose, CA

Over \$1,000,000/year energy savings
Water irrigation: 4 million liters/year savings
Waste diversion: 32% lower solid waste

Payback time < 1 year Return > 100%/year



- LEED EB Platinum Certified
- Owned by Adobe Systems, managed by Cushman & Wakefield