



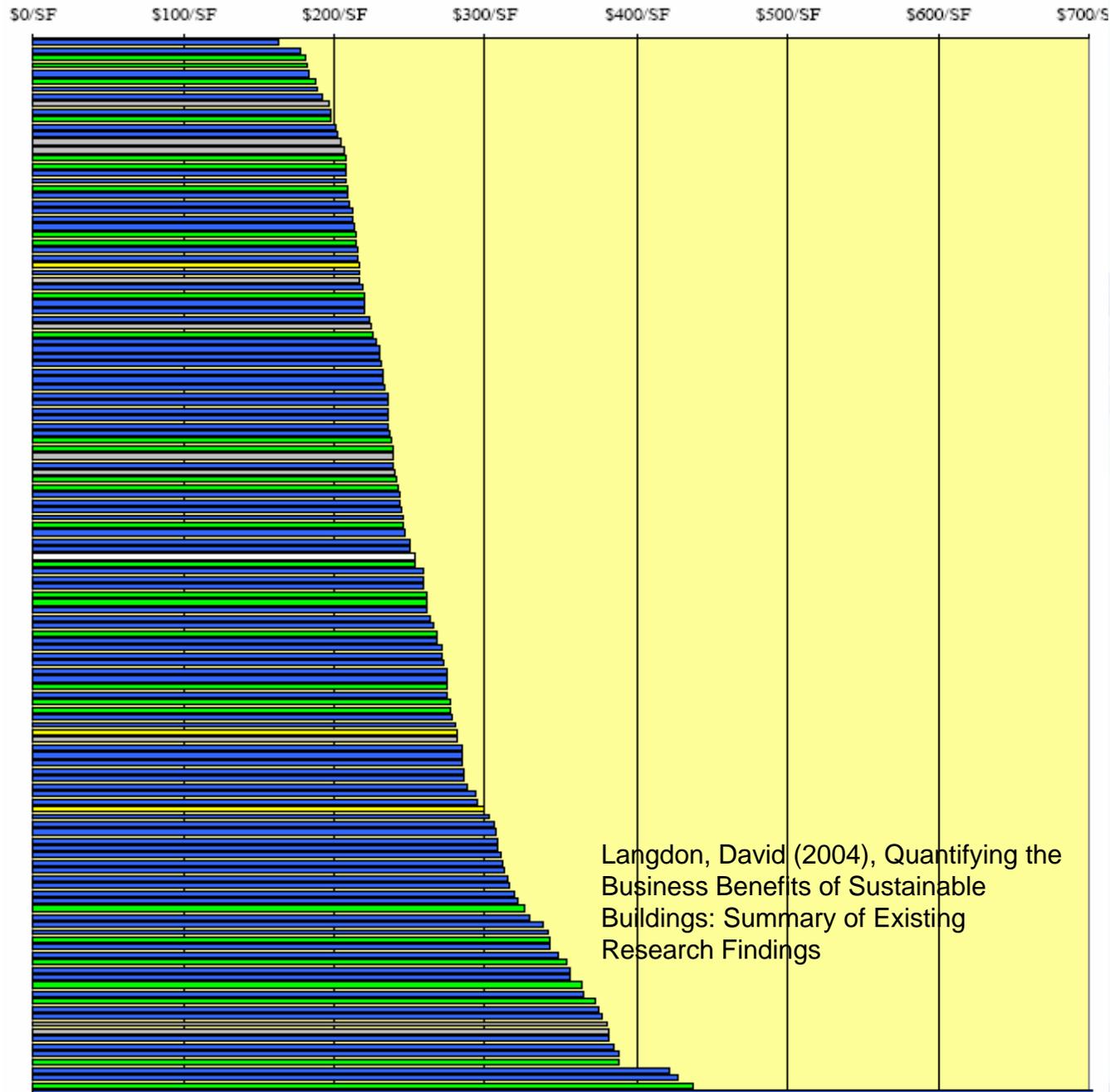
Pode contribuir para alterar a lógica ? Exemplos Internacionais...



Benefícios e Custos

- ✓ Melhoria do Desempenho Ambiental evidente;
- ✓ Melhoria nos Custos de Operação e Produtividade;
- ✓ Menor pressão sobre infra-estruturas e serviços

Cost/GSF of All Buildings



Custos

Síntese de
93 edifícios não
LEED e 45
edifícios que
procuram o LEED

- Azul Não LEED
- Verde –
Certificado
- Prata – Cinza
- Amarelo - Ouro
ou Platina

Reduzidas
diferenças
significativas

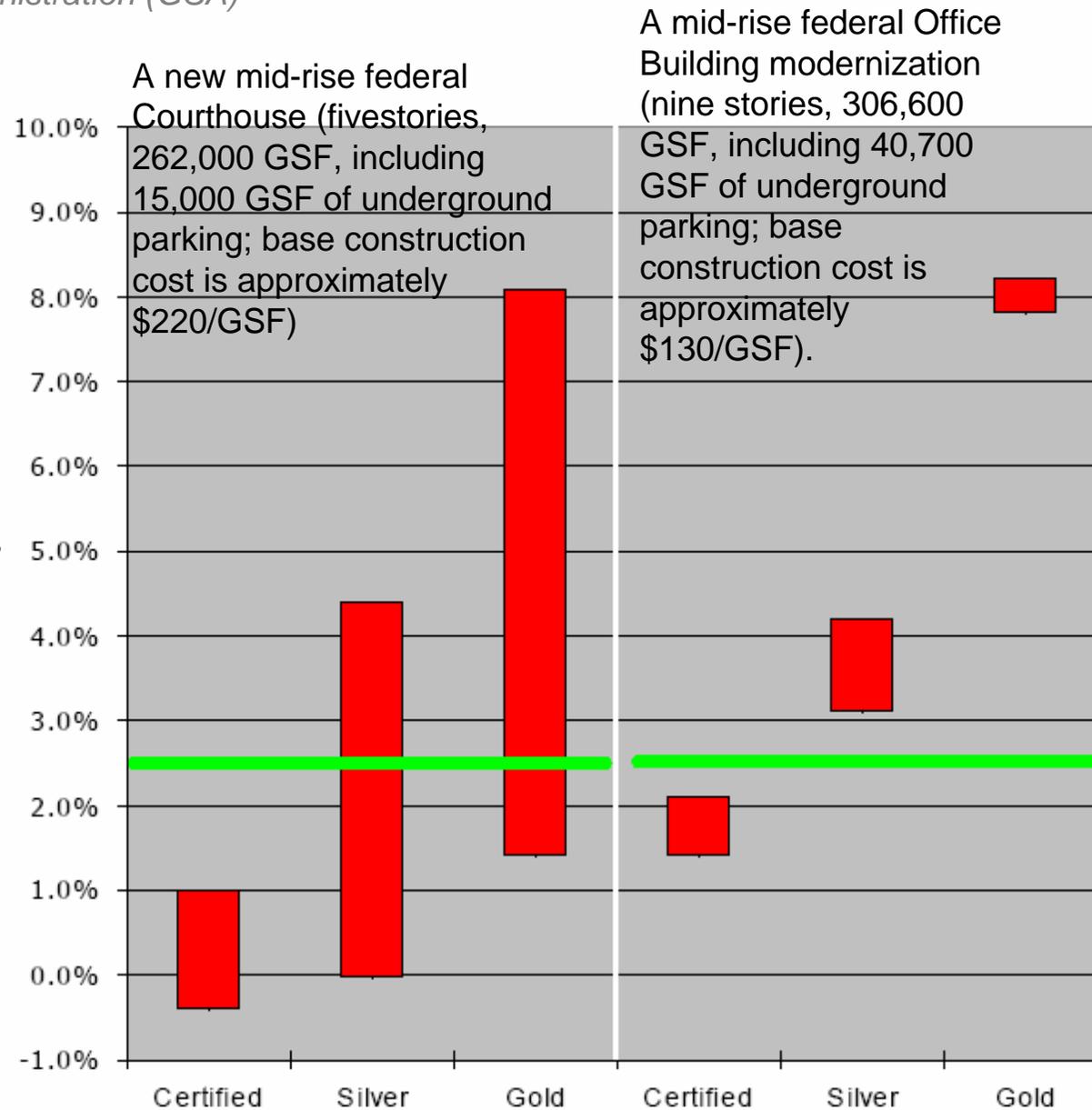
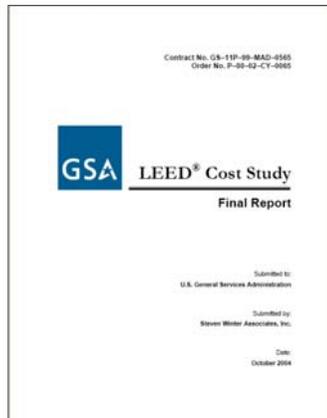
GSA LEED Construction Cost Impacts vs. Estimating Accuracy and Design Contingency

U.S. General Services Administration (GSA)

Design Contingency

Estimating Accuracy

Previous GSA Budget Allocation for LEED (2.5%)



Courthouse

Office Building

| | |
|--|---|
| State of Arizona | Currently using LEED on public projects and intend to seek certification. |
| State of California | California is currently considering LEED adoption and development of a California LEED Supplement for state projects. |
| State of Connecticut | Legislation requiring LEED certification of capital projects is currently under review by House Environment Committee. |
| State of Maryland e-mail (410) 767-4960 | State adopted LEED certification for all capital projects greater than 5,000 gsf in October 2001. Maryland's Green Building Council has created a green building program based on LEED model. |
| Commonwealth of Massachusetts e-mail (617) 727-4050 | State is considering LEED adoption for all state projects. This link points to their current Sustainable Design Program. |
| State of Missouri | Currently using LEED on public projects and intend to seek certification. |
| State of New Jersey | Encouraging the use of LEED on its \$1.2 billion public school construction program. Supports the development of a LEED application guide for K-12 and higher education facilities. |
| State of New York e-mail (518) 402-2908 | Encourages LEED certification for state projects. |
| State of North Carolina (919) 558-9343 | Guidelines specifications done with great thoroughness and care. A must-have for anyone specifying job-site recycling. Available free online. A voluntary organization of municipal and county governments in North Carolina's Region J. |
| State of Oregon (503) 373-0701 | Offers Business Energy Tax Credit for commercial developments earning Silver or Gold LEED certification. |
| Commonwealth of Pennsylvania | Governor's Green Gov't Council (GGGC) developed its own set of green building guidelines for Pennsylvania. High Performance Green Building Guidelines. Pennsylvania also requires LEED Silver certification for new construction RFPs issued by the Dept. of Environmental Protection and Dept. of General Services. A draft bill requiring LEED certification of all state projects was released for review in March 2002. |
| State of Utah (801) 538-5436 | State is considering LEED. This link points to an article describing the movement to building green and using LEED. |
| State of Wisconsin | Currently using LEED on public projects and intend to seek certification. |

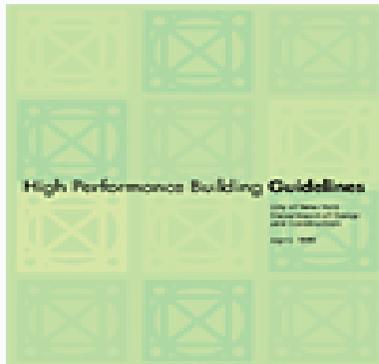
Alguns Programas de Iniciativas dos local baseados sistemas avaliação LEED

<http://www.toolbase.org/tertiaryT.asp?TrackID=&CategoryID=42&DocumentID=2858>



Cidade de Nova Iorque

- Manuais



High Performance Building Guidelines



Implementing the High Perf. Building Guidelines

- Especificações

DDC New York City Department of Design and Construction
OFFICE OF SUSTAINABLE DESIGN

HOME REPORTS & MANUALS SPECIFICATIONS FORMS & EXAMPLES DDC HOME

SPECIFICATIONS
See sections below for listings of specification language divided into categories.

- Sustainable Specification Index**
A complete list of all sustainable specification language issued by DDC, including both required and recommended language.
- Materials with Recycled Content**
As per the DDC's Design Consultant Guide, August, 2003, if the materials listed are used in the project, this specification language must be included in the final bid documents.
- Low Toxicity Materials**
The DDC is requiring the specification of some low toxicity materials and highly recommending others. As per the DDC's Design Consultant Guide, August, 2003, if the materials listed as **required** are used in the project, this specification language must be included in the final bid documents.
- Construction and Demolition (C&D) Waste Reduction**
As per the DDC's Design Consultant Guide, August, 2003, one of the two specifications that follow must be included in the Specifications of all projects.

<http://www.nyc.gov/html/ddc/html/ddcgreen/>



Exemplo vertentes :

 Introdução

 Visão Global

 Processo na Cidade

 Dinâmica de Projecto



Local e Planeamento



Administração da Construção



Comissionamento



Operação e Manutenção



Gestão da Água



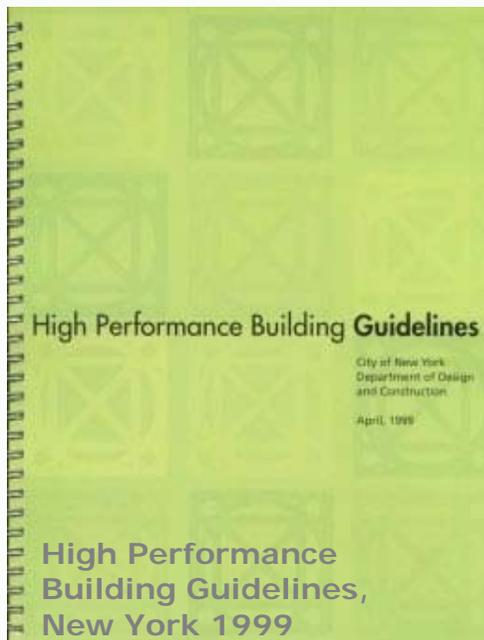
Seleção de Materiais e Produtos



Utilização de Energia no Edifício



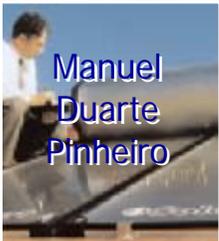
Qualidade do Ar Interior



NEW YORK CITY
Department of Design and Construction

<http://www.ci.nyc.ny.us/html/ddc/>

<http://www.nyc.gov/html/ddc/html/ddcgreen>



New York State Green Building Initiative

- Abrir a possibilidade de Créditos:
 - Regulamentação detalhada
 - [Green Building Tax Credit Regulations](#)
 - [Noticia das primeiras concessões de créditos nos impostos \(5 edifícios, 18.1 milhões de dólares, 2003\)](#)



Ex⁰

- One of the buildings recognized by Pataki is a new condominium located at 20 River Terrace in Battery Park City, which overlooks New York Harbor and the Statue of Liberty. It is one of the nation's first green residential structures. In addition to increased energy efficient technologies like Energy Star®-labeled appliances and photovoltaic panels, other green building features at the condominium include:

- Filtered air - ensures high-quality indoor air regardless of outdoor air quality
- Building materials and finishes free of harmful off-gassing
- Waste water recycling system - treats and reuses water for toilets and cooling towers
- Irrigation system - uses collected storm water
- Materials have high recycled content
- Large percentage of building materials originated from within 500 miles of building site

Building: 20 River Terrace, Battery Park City, New York City

Sponsor: Albanese Development Corporation, Garden City, Nassau County

Description: Condominium

Tax Credit: \$2,709,157.60

A "Community Residential Development," this project at "Site 18a" in lower Manhattan is one of the nation's first green residential structures. The groundbreaking for the project was June 1, 2001. The project will comply with Battery Park City's "Green Guidelines," which require all projects at the in the community to be developed using energy efficient and environmentally sound principals.





LiderA



Dinâmica de Sustentabilidade

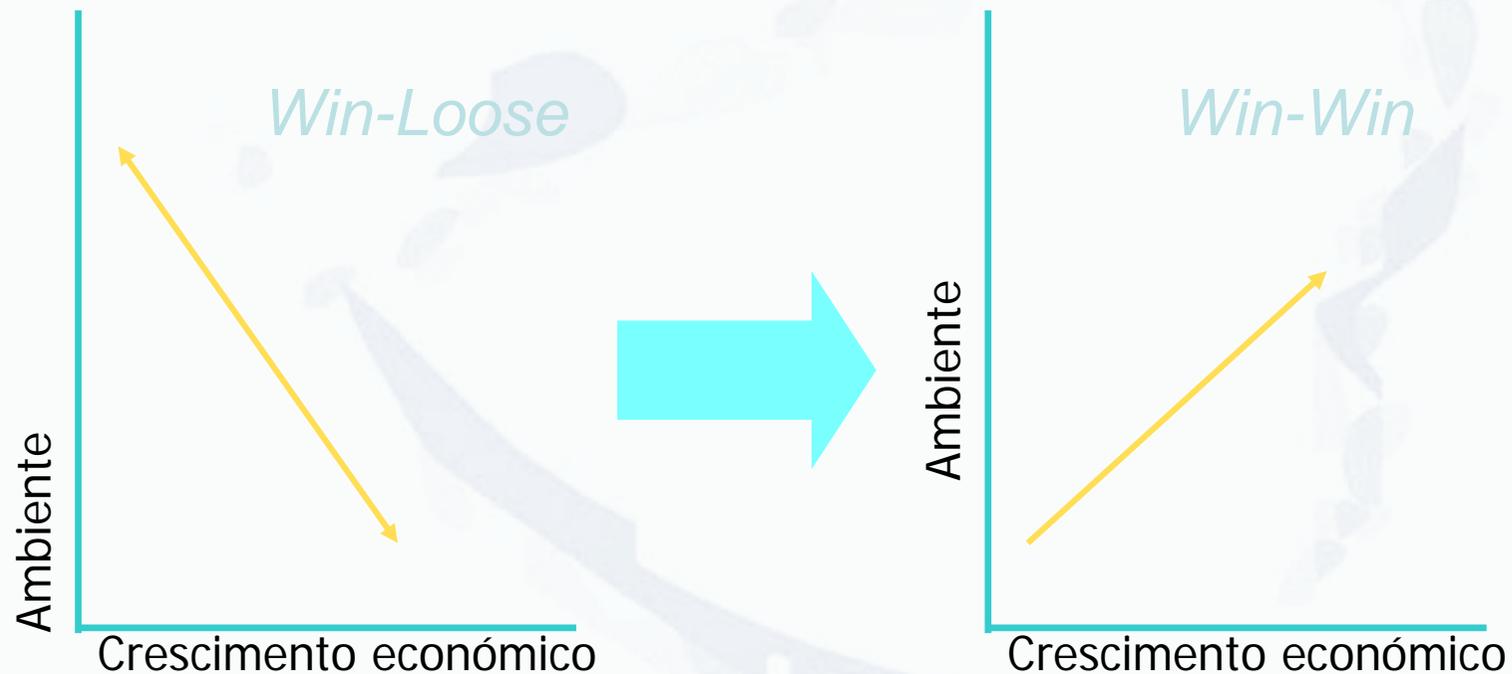
LiderA

(Liderar pelo Ambiente)

LiderA
V1.01



Sistema visa criar uma dinâmica positiva na construção (produto e obra), abrange ciclo da construção





GESTÃO AMBIENTAL NO CICLO DO EMPREENDIMENTO

Concepção

Necessidade / Oportunidade

ESTRATÉGIAS

Plano

REQUISITOS LEGAIS E FUNCIONAIS

IMPACTE AMBIENTAL

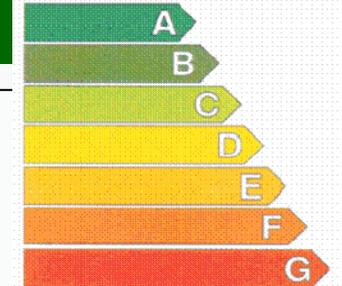
Projecto

REQUISITOS SUSTENTABILIDADE

Contratação



Mais Eficiente

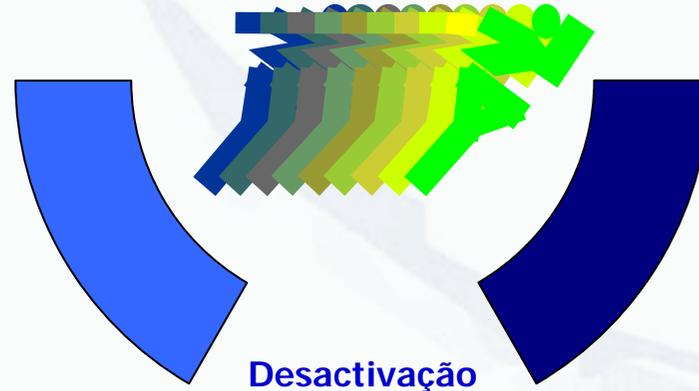


Implementação

AVALIAÇÃO DA CONSTRUÇÃO SUSTENTÁVEL

Construção

Operação / Exploração



GESTÃO AMBIENTAL

Sistema de Avaliação LiderA (v1.01)



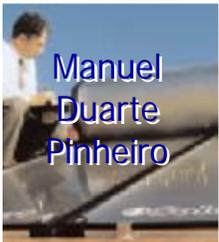


LiderA



Desenvolvimentos

...



Próximos Desenvolvimentos

- **Limiares**
- **Custos Económicos**
- **Precisar Técnicas e Modelos de Cálculo**
- **Maior contributo de estudos ACV**
- **Certificar empreendimentos**

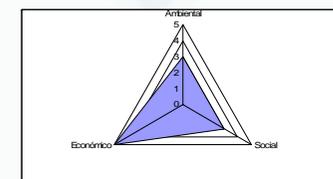
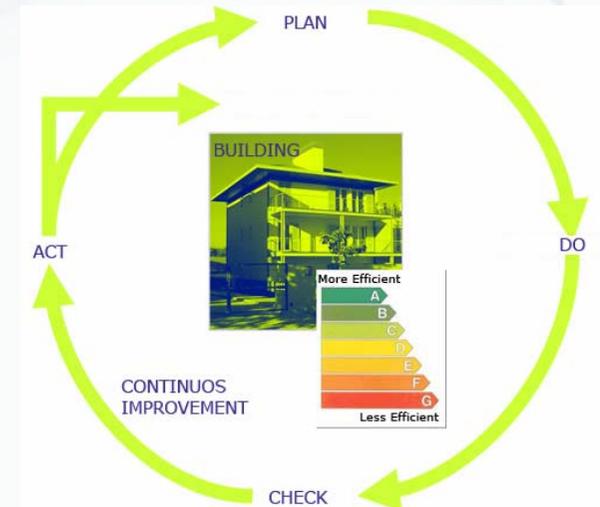
Sistemas Precisão dos Limiares

Soluções Casos Piloto

LiderA

Valores Referência

Ponderação





Publicação - Ambiente e Construção Sustentável



Abril 2007



Conferência em Portugal

12 a 14 de Setembro

<http://www.portugalsb07.org/>

Sustainable Construction, Materials and Practices Challenge of the Industry for the New Millennium



- ▶ Home
- ▶ Venue
- ▶ Organizing institutions
- ▶ Partners
- ▶ Organizing Committee
- ▶ Scientific Committee New!
- ▶ Keynote Speakers
- ▶ Aims, Scope and Topics
- ▶ Conference Program
- ▶ Important Dates
- ▶ Abstract Submission New!
- ▶ Fees and Registration
- ▶ Sponsors and Exhibitors
- ▶ Downloads
- ▶ Secretariat Contact

▶ Portugal and Lisbon
 ▶ Travel Info
 ▶ Hotels & Accomodations

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Portugal SB07

Lisbon, Portugal
12-13-14 September 2007


 University of Minho


 INSTITUTO SUPERIOR TECNICO
Universidade Técnica de Lisboa











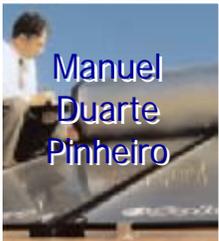












Mais informações

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http://www.lidera.info/aplicacao.html

Ir para Hiperligações

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Para cada tipologia de utilização são definidos os **níveis de desempenho considerados**, que permitem indicar se a solução é ou não sustentável. A parametrização para cada um deles segue: ou a melhoria das práticas existentes, ou a referência aos valores de boas práticas, tal como é usual nos sistemas internacionais.

O sistema pode ser aplicado nas diferentes fases conceito, projecto, construção operação e renovação e aos diferentes usos habitação, comércio e serviços, turismo, etc.

O sistema encontra-se actualmente em fase piloto, pelo que quem pretenda efectuar a sua aplicação, deve acordar a forma de aplicação com a equipa de desenvolvimento do LiderA, tendo em vista a sua possibilidade de aplicação.

