GREEN LINK

IPRO 338

Green Technology in Electrical Construction

Sponsored by: Electrical Contractors' Association of City of Chicago, Inc.

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LEED

WHAT IS LEED?

- Leadership in Energy and Environmental Design
- Encourage adoption of sustainable green building development practices

USGBC

United States Green Building Council
Non Profit organization working to make green buildings accessible to everyone

LEVEL OF CERTIFICATION

Different Levels of certification based on points earned through various building practices

26-32 points 33-38 points 39-51 points 52-69 points

FACTS AND FIGURES

- High levels of certification can be achieved at no additional cost
- US buildings account for 136 million tons of annual construction and demolition waste
- US buildings use 65% of total electricity consumption
- LEED and USGBC work to greatly reduce these numbers by every certified building

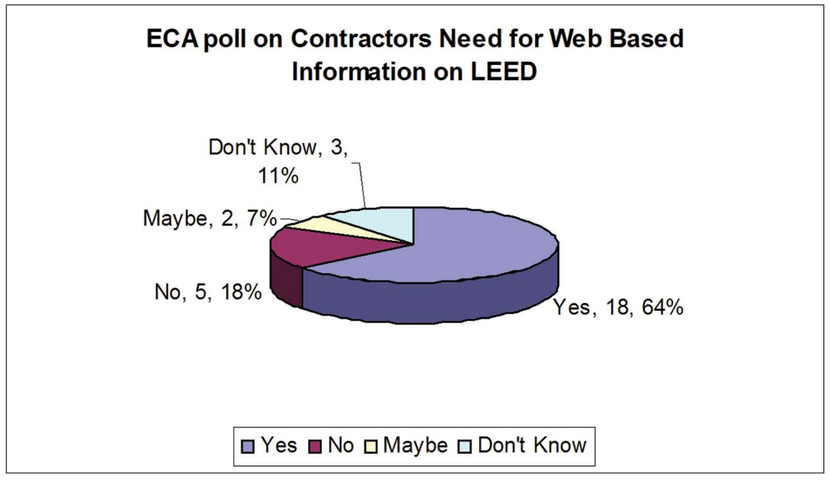
BENEFITS

- Improve the health and productivity of occupants
- Reduce life-cycle energy and operating costs
- Set example in community
- Meet growing demands of tenants

PROJECT CONCEPT

PROBLEM

- Green technology has become a major aspect of the design of buildings
- More developers demand these products and building techniques be used in construction.
- Information on these products is often confusing and incomplete.
- There is high demand for a tool that can help assist in bringing about a well Informed transition from industry standard building practices and products, to green alternatives, as well as cut down on miscommunication between architects and contractors



BACKGROUND

- The specifications for electrical products are commonly selected by the architects, clients, or general contractors, and typically done without the consultation of electrical contractors.
- This creates an information gap between the design and construction personnel, which in turn causes many construction redundancies.
- As of right now, data on green technologies are scattered throughout the internet, without a common source to organize the information in one easy-to-use database.

OBJECTIVES

- The purpose of this IPRO is to develop a website to host a user-friendly online database of green technologies information for the Electrical Contractors' Association of the City of Chicago.

METHODOLOGY

- Research team is tasked with researching current green technologies that are available, as well as the distributors of these products.
- Technical team works on developing and editing the website. It is up to the research team and technical team to ensure that the website is user-friendly, visually appealing, displays the desired information. The teams update the website based on the results of our contractor survey.
- The communication team speaks to electrical contractors in the field, in order to gain any additional information or user feedback that will assist in the articulation of the website

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