

CRITICAL OBSTACLES AND BARRIERS

- Establishing scope of work for time frame.
- Grasping the terminology and the concept of the project by individuals not familiar with the construction industry and the LEED rating system.
- Communication with the manufacturers because many of the larger corporations have developed mass e-mail systems which virtually eliminated the aspect of one on one communication.
- Transitioning the web site from the IIT server to the ECA server and receiving their final approval.

ACCOMPLISHMENTS:

- Met with our Sponsor
- Visited the construction site on 155 North Wacker
- Created a ROI calculator
- Continued research on LEED and green products
- Made contacts with green corporations
- Transitioned the web site to our sponsor



155 North Wacker, Chicago IL

CONCLUSIONS

IPRO 338 made significant progress continuing the work of the two previous semesters. We successfully completed a web site and database for electrical contractors, which was turned over and approved by our sponsor.

WHO WE ARE?

Team Members
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THANKS TO...

- Everyone involved in the IPRO for the last three semesters.
- Goettsch Partners
- ECA for their sponsorship.



IPRO 338
<http://cresthill.rice.iit.edu/egtec/>

IPRO 338 SPRING 2009

GREEN LINK

GREEN TECHNOLOGY IN ELECTRICAL CONSTRUCTION



<http://cresthill.rice.iit.edu/egtec/>

BACKGROUND:

Environmentally friendly products continue to become more reliable and inexpensive. However, 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.



Chicago Center for Green Technology was the third building in the United States to be rated LEED platinum.

ISSUES:

- The specifications for electrical products are commonly selected by 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.
- Data on green technologies are scattered throughout the internet.

OBJECTIVE:

The goal of IPRO 338 was to create a functioning user-friendly web site that aids electrical contractors in incorporating green technology into their project plans.



Main page of our web site.

WHAT IS LEED?

Leadership in Energy and Environmental Design (LEED) is a Green Building rating system, developed by the U.S. Green Building Council (USGBC). The system provides a suite of standards for the environmentally sustainable construction. LEED is a point based system with four different levels of certification.

LEED BENEFITS:

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

BASIC ORGANIZATION AND TASKS:

There were three major components involved with completing the goals for this semester

- Accumulation of data.
- Organizing this data into a web site
- Communicating with ECA to insure their needs were being met

The team accomplished these tasks by dividing into three teams

Research

The Research teams focus was to obtain LEED information on the various building systems.



enphase m175-24-240 micro

Communication

The Communications team focused on obtaining contact information from green corporations as well as serving as a Liaison between the group and the ECA chapter.



Tech

The Tech team focused on updating and enhancing the web site.