IPRO 338
Green Technology in Electrical Construction
Sponsored by: Electrical Contractors’ Association of City of Chicago, Inc.

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
  • Certified 26-32 points
  • Silver 33-38 points
  • Gold 39-51 points
  • Platinum 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

MISSION STATEMENT
To provide a resource in helping Chicagoland electrical contractors meet Leadership in Energy and Environmental Design (LEED) and United States Green Building Council (USGBC) standards.

Team Members and Assignments

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Code of Ethics
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USGBC Research

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Power Distribution Research/Poster Design
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Meeting Minutes Taker
James Wright
LEED Research/Flow Chart

PROBLEM BACKGROUND
• 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

GOALS
• Develop a website to host a user-friendly online database of green technology information for the Electrical Contractors’ Association (ECA) of the City of Chicago.
• Provide data on green electrical products with cut sheets, pricing and distributor information, return on investment projections, and Leadership in Energy and Environmental Design (LEED) certification facts.
• Within the timeframe of one semester, it was determined that the primary focus of the work should be on developing a template for the website.
• Setting the ground work in research and industry contacts to facilitate completion in future semesters.