



## GREEN TECHNOLOGY IN ELECTRICAL CONSTRUCTION SPONSORED BY: ELECTRICAL CONTRACTORS' ASSOCIATION OF CITY OF CHICAGO, INC.

### L.E.E.D.

#### 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 point
- 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

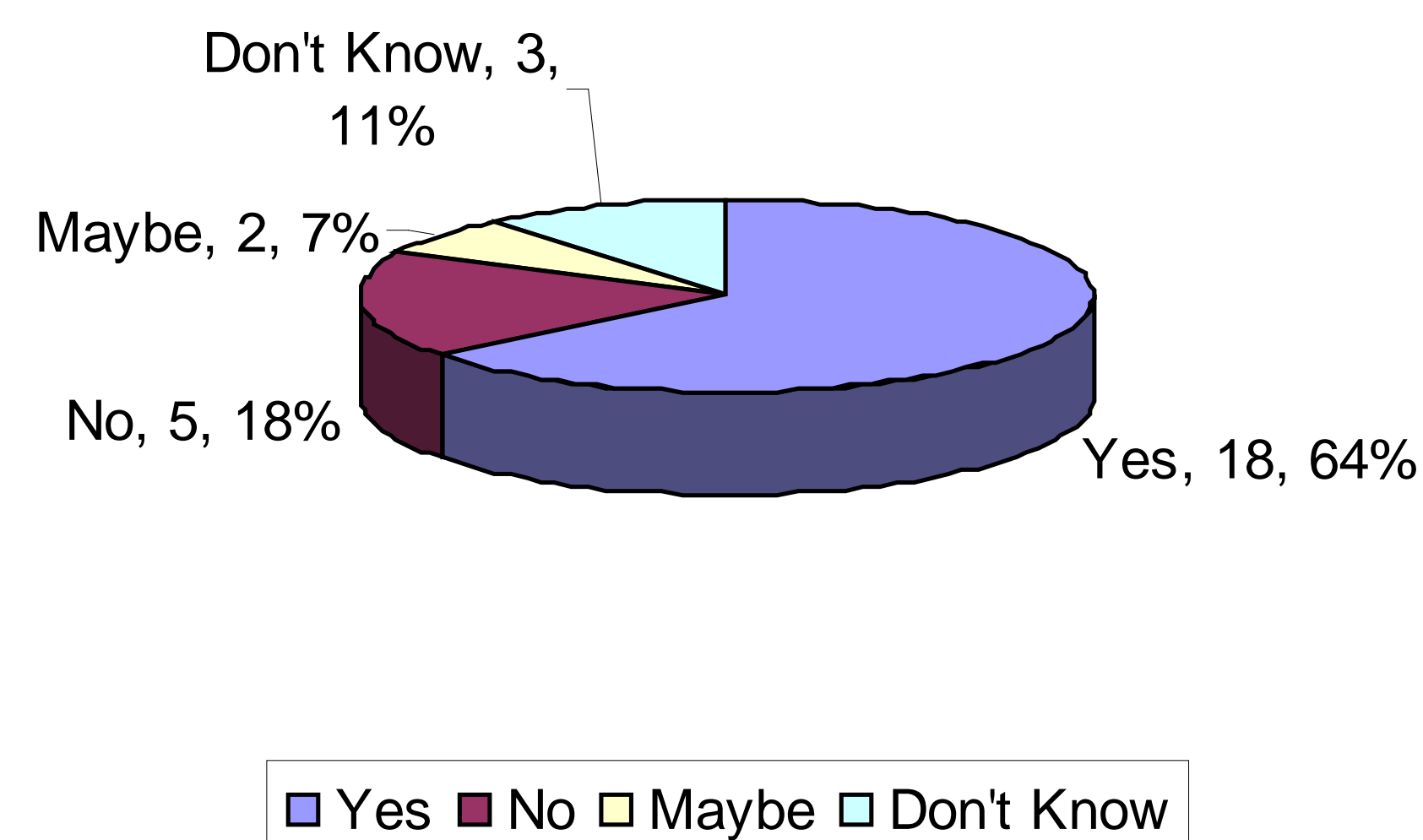
- Improve the health and productivity of occupants
- Reduce life-cycle energy and operating costs
- Set example in community
- Meet growing demands of tenants



### PROJECT CONCEPT

- 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

ECA poll on Contractors Need for Web Based Information on LEED



### 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, we achieved our goal of developing a database and fully functional website. We determined that more work can be done on the aesthetics and format of the website in future ipros.
- Setting the ground work in research and industry contacts to facilitate completion in future semesters.

### 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

- |  |                                      |
|--|--------------------------------------|
| TOMAL, DAN<br>IPRO PROFESSOR           | MALAWSKI, FRANK<br>RESEARCH; LEED    |
| GEORGIEVA, LUDMILA<br>RESEARCH; GRANTS | MANKE, ALEXANDRA<br>RESEARCH; GRANTS |
| HAURBERG, SOREN<br>IT TEAM             | MITCHELL, LALUCE<br>RESEARCH; LEED   |
| HORWATH, JOSHUA<br>IT TEAM             | MITCHELL, JASON<br>CO-FACILATOR      |
| IM, HYEON<br>RESEARCH; HVAC            | ODUNAIYA, EDUMAREBE<br>MIRO. IT TEAM |
| JOHNSON, ROSS<br>PROJECT LEADER        | PATEL, KUNAL<br>IT TEAM              |
| LEE, JAE<br>RESEARCH; ROI              | WONG, WING HONG<br>SECRETARY         |
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