

# IPRO 338 Project Plan

## The Effects of Green Technology on Electrical Contractors

Advisor: Dan Tomal  
Sponsor: Electrical Contractors' Association of the City of Chicago  
Team: Althoff, Sarah  
Boonstra, David  
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Kamdar, Amit  
Marrari, Giuseppe  
Mitchell, Jason  
Patel, Vrudhdhi  
Saulog, Jeremy  
Sin, In Seok  
Standard, Steve  
Wright, James

**Objectives:**

The purpose of this IPRO is to develop a template for a website to host a user-friendly online database of green technologies information for the Electrical Contractors' Association of the City of Chicago. This website will involve providing data on green electrical products with cut sheets, pricing and distributor information, return on investment projections, and LEED certification facts. The use of this website should help create a well informed transition from industry standard electrical products, to green alternative products, as well as cut down on miscommunication between architects and electrical 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.

**Methodology:**

- Several member of the IPRO are tasked with researching current green technologies that are available, as well as the distributors of these products.
- Once the information is gathered, a large portion of the team will work on developing the website. It will be up to these members to ensure that the website is user-friendly, visually appealing, displays the desired information, and is smart phone accessible.
- The remainder of the team will go on site visits to speak to electrical contractors in the field, in order to gain any addition information or user feedback that will assist in the articulation of the website.

**Expected Results:**

This IPRO will result in an online utility that assist Chicago's transition to becoming the greenest city in the country, as well as helping to reduce the communication divide between designers and the labor force.

**Project Budget:**

This IPRO will require presentation materials for IPRO day, which will be funded by the ECA. Aside from that, every attempt to use the resources of IIT labs will be made.

**Task and Milestones:**

\*See attached Gantt Chart

**Individual Team Member Assignments:**

Name	Major/Minor	Skills	Strengths	Experience and Academic Interests	Team	Why they are on this team?	Assignments done so far
Sarah Althoff	Fourth year undergrad Architectural Engineering	Computer Proficiency	Very observant	Interned with Teng & Associates as an HVAC engineering intern	Secretary	Observant fast typer	Minutes, Organizing timesheets, Weekly task list
David Boonstra	Fourth year undergrad INTM department	ECA contacts, knowledge of technical drawings	Practical knowledge	Worked for the past four years for a member contractor of the Electrical Contractors Association of Chicago	Co-Captain, Master Schedule Maker	Relevant field experience	LEED research
Andrew Dilger	Fifth year undergrad Architecture	Work experience MS Office, Adobe CS3	Able to simplify complex "brainstorming"	IPRO, Web design, Research within the architectural disciplines	Time Keeper, Web designer, Project Planner	Experience in similar projects	Project Plan, LEED research
Sabeen Haque	Fourth year undergrad Psychology	Computer proficiency	Eager to learn	Previous IPRO	iGROUPS	Knowledge of iGROUPS database	LEED research
Amit Kamdar	Fourth year undergrad in BCPS department	Computer proficiency	Gives unbiased feedback	Previous IPRO	Research (Power supply)	Volunteer for additional knowledge	LEED research
Giuseppe Marrari	Fourth year undergrad Electrical Engineering	Project Management	Leader	Worked on previous IPRO involving hybrids.	Captain	Organized an SAE team to an international race between other schools	Administered LEED survey to ECA members
Jason Mitchell	Fourth year undergrad Architecture	Work experience	Design perspective	Architectural field work	Team Leader, Research (lighting)	Limited experience with researched topic	LEED research
Vrudhdhi Patel	Fifth year undergrad Chemistry	Computer proficiency	Useful as a non-EE reference	Previous IPRO	Ethics	Interest in improving team strength	LEED research
Jeremy Saulog	Aerospace and Mechanical Engineer	Proficient with AutoCAD and MS Office	Fast learner and hard working	Aerospace, Mechanical engineering and psychology	research (HVAC)	strong interest in HVAC systems	Brainstormed project ideas, researched into HVAC and helped work on Project Plan
In Seok Sin	Fifth year undergrad Biology	Ms Office	Highly interested in green technology and hard working	Environment Science	Ethics	Ethics makes team bond together and distinguish the strong and week point	Making ethics for IPRO 338 and helped to make a concept of approaching user friendly access website
James Wright	Fifth year undergrad Architecture	Work experience	Knowledgeable in IPRO topic	Working for IIT maintenance	Research (low voltage)	Limited experience with researched topic	LEED research

## **Designation of Roles:**

### **A. MEETING ROLES**

**Minute Taker:** This member is in charge of recording decisions made during meetings including task assignments or changes under consideration.

Althoff, Sarah

**Agenda Maker:** This member is responsible for creating an agenda for each team meeting. This provides structure to the meetings and offers a productive environment.

Marrari, Giuseppe

**Time Keeper:** This member needs to be responsible for making sure meetings go according to agendas.

Dilger, Andrew

### **B. STATUS ROLES**

**Weekly Timesheet collector/Summarizer:** This member is responsible for collecting weekly timesheets from each member of the team and updating everyone with a summary report

Althoff, Sarah

**Master Schedule Maker:** This member is responsible for collecting schedules from all team members and developing a master schedule, which tells the team when members are available and how to contact them.

Boonstra, David

**iGROUPS:** This member is responsible for organizing the teams iGROUP and ensure that it is used properly.

Haque, Sabeen