STATEMENT OF THE PROBLEM

- NEED FOR ENERGY EFFICIENCY
- CREATE A ZERO ENERGY COMMUNITY
- ENCOURAGE CHICAGO SUBURBS TO REASSESS BUILDING STANDARDS
- INFLUENCE PLANNING OF FUTURE COMMUNITIES
ORGANIZATION

- SUBGROUPS
  - DESIGN
    - LEADER: JENNIFER IVERSEN
  - CONSTRUCTION
    - LEADER: JOSH GROSS
  - BUILDING TECHNOLOGY
    - LEADER: ADAM BOHAC
  - BUILDING SYSTEMS
    - LEADER: KEANEN MCKINLEY

- INDIVUAL ROLES
  - TEAM LEADER
  - AGENDA MAKER
  - MINUTE TAKER
  - IGROUP MODERATOR
  - TIME KEEPER
PROJECT GOALS

- USE INNOVATIVE PLANNING TO CREATE EFFICIENT AND COMFORTABLE HOMES
- USE NEW AND EXISTING TECHNOLOGY TO CREATE A ZERO ENERGY COMMUNITY
- DOCUMENT AND PRESENT FINDINGS TO CHICAGOLAND SUBURBS
- HELP ESTABLISH NEW GUIDELINES FOR PLANNING INNOVATIVE COMMUNITIES
- CREATE A KNOWLEDGE BASE FOR FUTURE SEMSTERS
PROGRESS

- ESTABLISHED THE “AVERAGE” STANDARDS AND IMPROVE ON THEM
- RESEARCHING DIFFERENT TECHNOLOGIES, MATERIALS, AND SYSTEMS
- IMPLEMENTING OF THE MOST EFFECTIVE TECHNOLOGIES, MATERIALS, AND BUILDING SYSTEMS
- SITE PLANNING
MAJOR OBSTACLES

- DESIGN GROUP
  - ZONING
  - BALANCED LAND USE
- CONSTRUCTION
  - INFORMATION OVERLOAD
- BUILDING SYSTEMS
  - COMING UP WITH THE “AVERAGE”
- TECHNOLOGIES
  - FINDING HARD NUMBERS ON SYSTEM EFFICIENCIES TO ELIMINATE TECHNOLOGIES THAT ARE NOT EFFICIENT
ANTICIPATED CHALLENGES

- **PLANNING/DESIGN**
  - Having the villages change their zoning to allow us to have the density needed

- **MATERIALS/CONSTRUCTION**
  - Deciding on a construction method that is both cost effective and environmentally friendly

- **BUILDING SYSTEMS**
  - How to share and place the building systems with access for multiple families

- **TECHNOLOGIES**
  - Applying the systems in a manner that does not create an eye sore that the village will allow
QUESTIONS TO OTHER IPROs

- WHAT IS YOUR DEFINITION OF A COMMUNITY?
- DOES ANYONE HAVE ANY PREVIOUS RESEARCH ON ENERGY/COST EFFICIENT BUILDING CONSTRUCTION?
- DOES ANYONE HAVE NUMBERS OF AVERAGE SYSTEM OUTPUTS? DOES ANYONE KNOW THE “AVERAGE” ENERGY CONSUMPTION OF THE “AVERAGE” FAMILY?