

ZERO COMMUNITY

I PRO 323

ADAM BOHAC, DAVID BRADY, JUAN BUENO, DANIEL COUGHLIN, LOWELL DEPALMA, JUAN GONZALEZ, JOSH GROSS, CARLOS HERNANDEZ, JENNIFER IVERSEN, KEANEN MCKINLEY, MICHAEL MOCERI, NISHANT MODI, ANTHONY WISNIEWSKI, BRYAN ZACHARIAS

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

□ INDIVIDUAL 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?