



The Center for Sustainably Integrated Buildings and Sites (SIBS)

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EPIC

- EPIC was **FOUNDED** by the energy industry
- Industry needs energy talent for the future
 - Average age of professionals is 55+
 - Innovation in power industry - new skills
 - Economic development
- Professional development and life-long learning of employees
- Applied research needs for a safe, reliable, and sustainable energy future



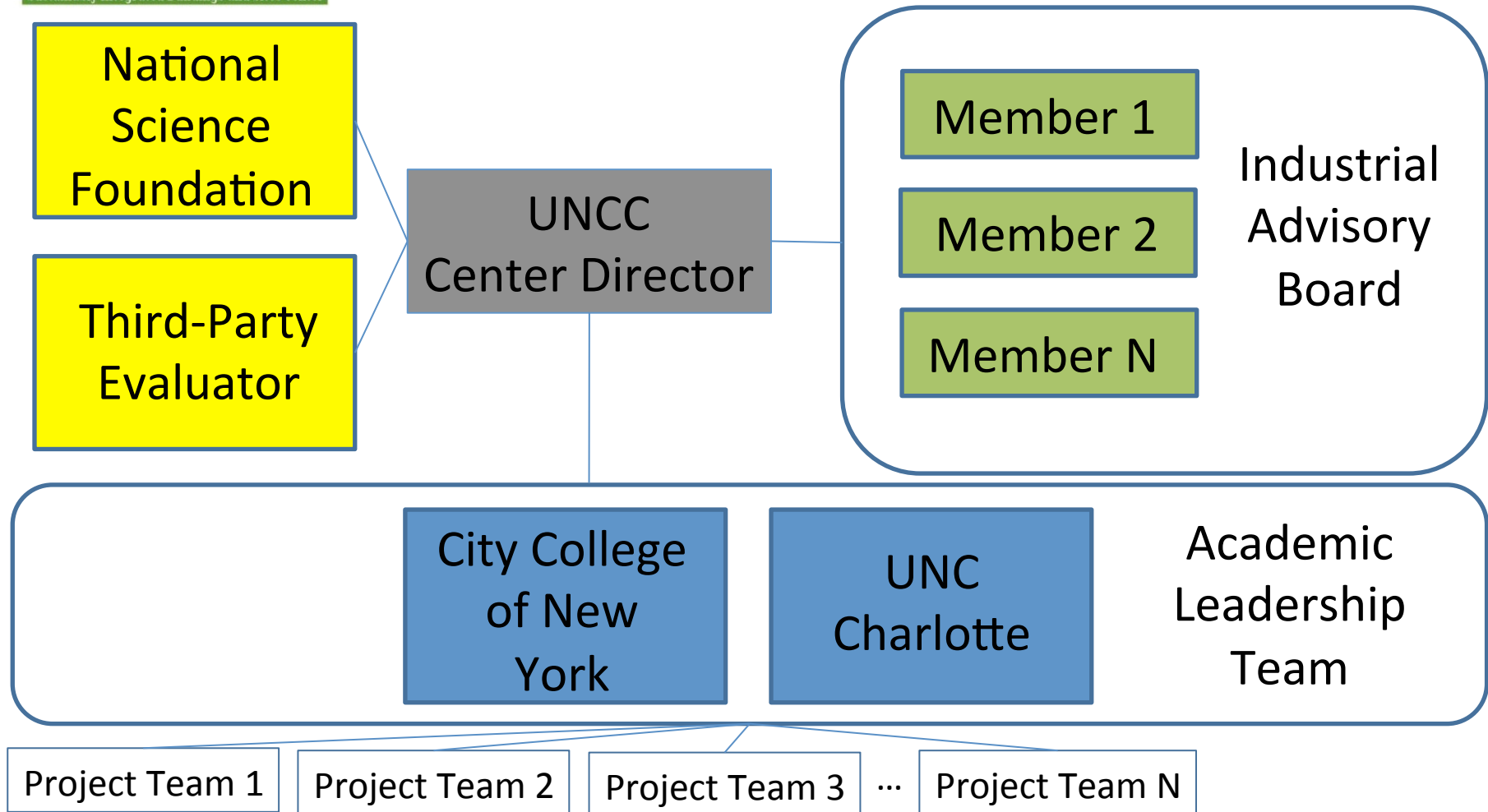


The I/UCRC Program

- The National Science Foundation runs various programs; most focused on “basic” science
- Industry / University Cooperative Research Centers is different:
 - *National Science Foundation*: Brings oversight, evaluation, administrative support
 - *Universities*: Perform applied research in a selected area; reduced indirect cost
 - *Industry*: Fund and direct the research performed by the University teams; provide incubators for testing
- Each center has a unique theme and goes through a two-stage peer-review process



I/UCRC for Sustainably Integrated Buildings and Sites (SIBS)

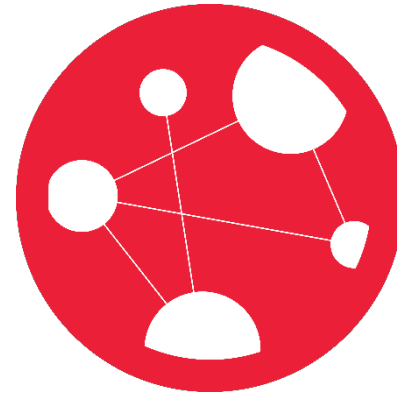




Better Performing Buildings Through Research



Advanced Automation



Systems Integration



Data Analytics



Case Studies



The Advisory Board

- Wells Fargo
- Bank of America
- Ingersoll Rand
- Abundant Power
- Mecklenburg County
- NYC Department of Citywide Administrative Services (DCAS)
- NYSERDA
- Concept3D



Valerie Woodard Center

- Let's design beyond regional benchmarks toward 2030 challenge goals
- Let's design with certain performance goals in mind





ZNE Design & Commissioning





Waste Programs

- What can be done to help reduce waste to landfill?
- Really hard problem:
 - Data is hard to obtain
 - Even if you have it, what does the data tell us can be done?
- UNCC students now examining data sets from across the city looking for opportunities
 - The impact of retail in commercial buildings



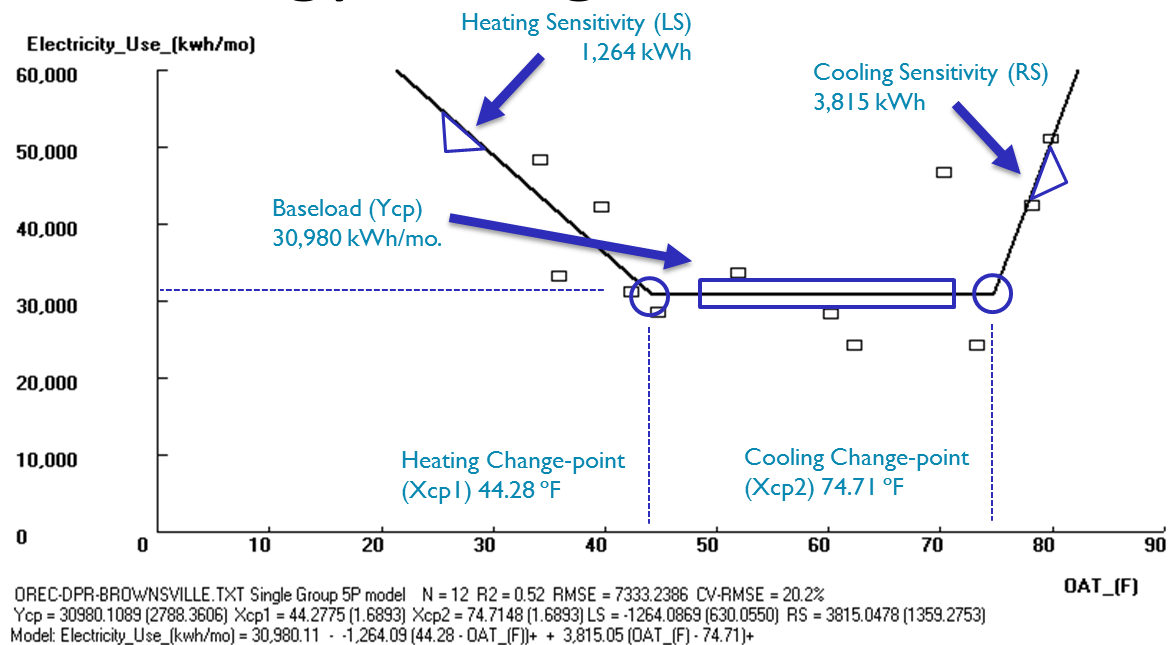
Partnership with NYC DCAS

- CUNY Building Performance Lab performs functions with the city:
 - Help center for the city's benchmarking activities
 - Education for city building operators
 - Energy Data Lab



Energy Data Lab

- Provide quantitative feedback on efforts under PlaNYC 2030
- Helps to address the big issue that runs through many of our project – what is the real value of energy savings initiatives?





Questions?

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