AIA Chicago 2030 Working Group
2012 Design Work

April 23, 2013
Summary
This report summarizes the results of a data pool among participating offices of the AIA Chicago 2030 Working Group. This effort enables us to create a picture of progress toward the 2030 targets within this local design community.

Projects included in this analysis are those which were in a design phase during 2012. A variety of firm sizes, building types, and project locations are included.

Participation
18 offices
Projects totaling over 148,000,000 SF
296 whole building/addition projects
216 interiors projects
Whole Building/Additions Projects
296 projects and 142,732,380 GSF included in analysis.

- PEUI Reduction from Average EUI (Current Target 0.60%)
  - 37.4%
- GSF Modeled
  - 95,405,264
- GSF for which Data will be Collected
  - 58,381,097

Interior-Only Projects
216 projects and 5,915,067 GSF included in analysis.

- LPD Reduction 2012 (Target 25%)
  - 16.5%
- GSF Meeting Target
  - 1,568,034 = 26.5%
AIA Chicago Participating Offices
Design Work Year-to-Year Progress

Internal Analysis: Progress

Predicted EUI
- 22% reduction from Average EUI in 2009
- 32% in 2010
- 33% in 2011
- 37% in 2012

Project Modeling
- 60% in 2009
- 79% in 2010
- 68% in 2011
- 67% in 2012

Use Data To Be Collected
- 24% in 2009
- 24% in 2010
- 58% in 2011
- 41% in 2012

LPD Analysis
- 18% reduction from SURVEY 0.1, 2007
- 17% in 2009
- 15% in 2010
- 16% in 2011
- 16% in 2012
AIA Chicago Participating Offices
2012 Predicted EUI Reduction by Office

38% (2012)
33% (2011)
AIA Chicago Participating Offices

2012 Predicted EUI Reduction by Building Sector

width of bar represents relative project work in GSF

Assembly/Cultural
Education - Higher Ed
Education - K-12
Healthcare - Inf
Healthcare Outp
Office
Residential
Retail

38% (2012)
33% (2011)
Projects within the City of Chicago

Summary
From the same data set, the following slides have been created around projects located within the City of Chicago.

Participation
18 offices
Projects totaling over 17,000,000 SF
82 whole building/addition projects
61 interiors projects
AIA 2030 Commitment Annual Report

AIA Chicago Participating Offices - Projects within the City of Chicago Design Work 2012

Whole Building/Additions Projects
82 projects and 14,948,460 GSF included in analysis.

- PEUI Reduction from Average EUI (Current Target 60%)
  - 34.7%

- GSF Modeled
  - 11,663,311

- GSF for which Data will be Collected
  - 8,342,424

Interior-Only Projects
61 projects and 2,477,428 GSF included in analysis.

- LPD Reduction 2012 (Target 25%)
  - 15.7%

- GSF Meeting Target
  - 528,790 = 21.3%
AIA Chicago Participating Offices - Projects within the City of Chicago
Design Work Year-to-Year Progress

- Predicted EUI
- Project Modeling
- Use Data To Be Collected
- LPD Analysis
AIA Chicago Participating Offices

Projects within the City of Chicago

2012 Predicted EUI Reduction by Building Sector

width of bar represents relative project work in GSF
AIA Chicago Participating Offices
Projects within the City of Chicago
2012 Predicted EUI Reduction by Project Size

- <25,000 GSF: 303,273 GSF, 27 projects
- 25,001-100,000 GSF: 1,479,971 GSF, 26 projects
- 100,001-500,000 GSF: 6,075,546 GSF, 21 projects
- 500,001-1,000,000 GSF: 4,519,632 GSF, 6 projects
- >1,000,000 GSF: 2,570,038 GSF, 2 projects
# Projects within the City of Chicago: Scenarios for Improvement

**Context:** analysis of 82 projects totaling 15 million square feet.

<table>
<thead>
<tr>
<th>Scenario Description</th>
<th>Percentage</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Current</strong></td>
<td>35%</td>
</tr>
<tr>
<td>Meet or exceed IECC 2012 on all projects</td>
<td>44%</td>
</tr>
<tr>
<td>And achieve/incentivize further savings for projects over 60% (increase percent savings by 10)</td>
<td>45%</td>
</tr>
<tr>
<td>OR achieve/incentivize further savings for projects over 40% (increase percent savings by 10)</td>
<td>46%</td>
</tr>
<tr>
<td>OR achieve/incentivize further savings for all projects (increase percent savings by 10)</td>
<td>54%</td>
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</tbody>
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