



Towards More Robust EUI Baselines for Non-residential New Construction

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Why EUI and the Study?



Changing structure of new construction programs



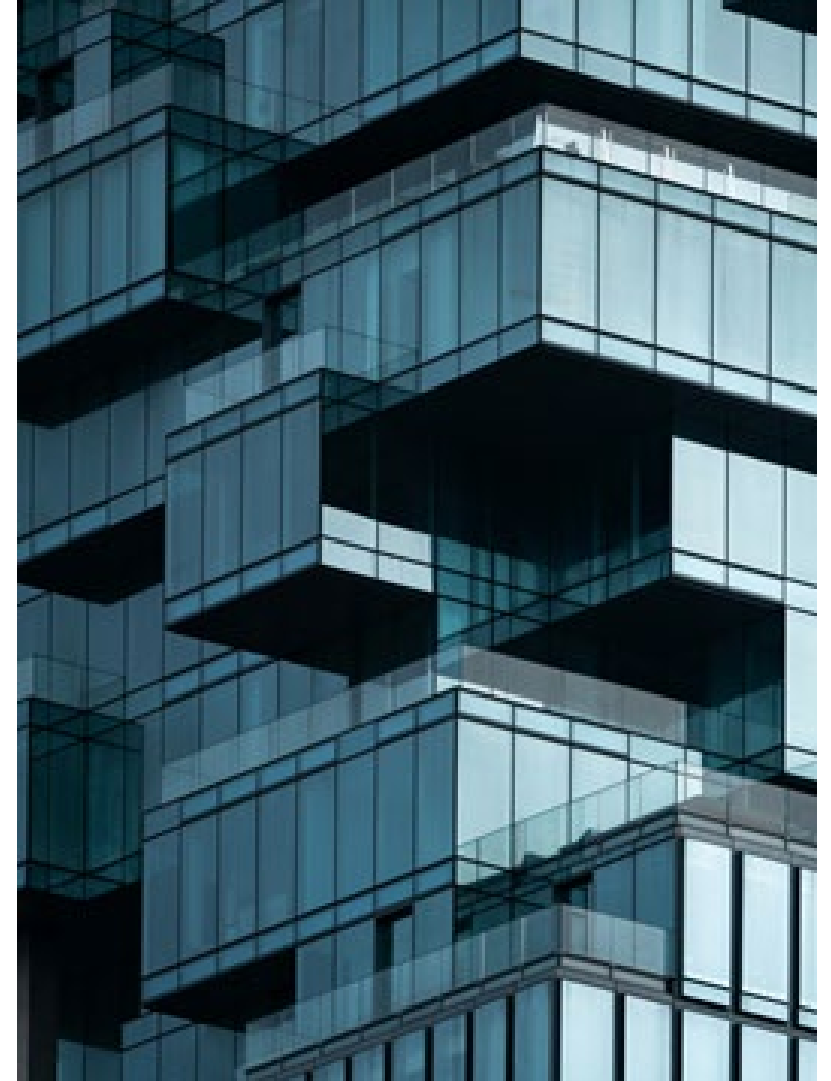
Focus on early interaction with project stakeholders



Whole building metric & historical context



EUI Baseline study provides the framework



Study in a Nutshell

Data	Analysis	Group Input	Recommendations	kBtu /ft ²
<ul style="list-style-type: none"> • PA Billing & Tracking Data • Tax Data <ul style="list-style-type: none"> • MA L3 Data • Boston-Specific 	<ul style="list-style-type: none"> • Site EUI vs. Source EUI • Secondary Sources • % Fuel Breakdown • EUI Ranges 	<ul style="list-style-type: none"> • Expert Committee • Consensus Group • Select Buildings Types • Outliers 	<ul style="list-style-type: none"> Multifamily Offices Medical Office Hotel Supermarket/Grocery Store Library Fire/Police Stations Fire/Police Stations 	<ul style="list-style-type: none"> 45 70 80 75 200 80 90 65



- Limited sample sizes
- Few building types with reliable EUI & detailed information
- High variability
- No change in EUI values over the past decade – past program designs?
- Ex-ante process for outliers
- Revise EUI values using 2018 CBECS data

Thank You

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A photograph of a brick wall with a brown rectangular sign. The sign features the letters 'NIMR' in large, green, 3D block letters. Below 'NIMR', the words 'Group, Inc.' are written in a smaller, dark, sans-serif font. The sign is mounted on a red brick wall, and a window is visible in the background to the left.

NIMR

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