



Stretch Codes Market Transformation Initiative: Logic Model

Draft for IL SAG review

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from Guidehouse**



Purpose for stretch code program: to transform the market by advancing energy code adoption that support energy and carbon reduction goals of the Illinois municipalities

Input / Resources: Utilities have strong new construction programs that can be leveraged to support stretch codes
The construction market is accustomed to building according to a set of codes

Code Advancement

Constraints

Building energy codes have a longer time horizon of impact as compared to other EE technologies (TM1)

Business and contractor community pushes back against new regulation and updates to the code (TM2 and TM3)

Municipalities have limited resources to understand, adopt, and enforce more complex code (TM1, TM3)

Code Support

Higher upfront costs and more complex design needs for some energy efficiency investments (TM2)

Design and construction contractors and code officials are not aware of updated or more complex codes (TM2) due to perceived lack of customer demand, perception of energy codes and life/safety, and/or time/personnel shortages.

Equity concerns surround resources to implement stretch codes across diverse communities (TM1)

Advancement Actions

Influence adoption at state level, with study reports, letters of support, published statements, attending meetings promising to develop support program that fits the specific technical needs of the stretch code policies. (TM1, TM2, TM3)

Influence adoption of stretch code at municipal level, convening key stakeholders, providing research documents, developing technical reports (TM1, TM2, TM3)

Participate in industry groups (Compliance Collaborative), provide ongoing policymaker education, and maintain good relationships to understand/mitigate key adoption issues. (TM1, TM2, TM3)

Provide support program to stretch code jurisdictions and projects in jurisdictions without a stretch code. (TM1, TM2, TM3)

Support Actions

Develop and implement trainings and education, including a circuit rider, that target both building professionals, code officials, and realtors. (TM2, TM3)

Development of stretch code compliance documents, outlining how stretch codes can be followed in design, construction, and enforcement. (TM2, TM3)

Development of support for under-resourced city code officials, including third party support systems (TM2, TM3)
Reinstatement of the Illinois Energy Code Compliance Collaborative to disseminate trainings and impact biggest areas of non-compliance (TM2, TM3)

Development of programs that provide technical assistance and incremental cost incentives (TM1, TM2, TM3), including development of equitable program design to support underserved communities (e.g. higher incentives or credits, prioritize workforce trainings in underserved communities.) (TM1, TM3)

Outcomes from advancement

Short term (1-3 years): Policies are adopted both at the statewide level and in 2-5 early adopter communities

Medium (4-9 years): Stretch code policies are adopted for 10-15 communities

Outcomes from Support

Short term (1-3 years): Realize energy savings and increased compliance stretch code communities

Medium (4-9 years): Increased understanding of design and construction practices to meet stretch codes so that stretch code adoption, enforcement, and building practices increase

Support workforce development – increase trained building auditors, installers etc., to assist program implementation contractors. (e.g. ICC certification).

Long Term (10+ years) Impact of Market Transformation*

Stretch code policies are adopted across a majority of municipalities in Illinois

Stretch code target has met net zero

Achieve ~90% compliance in entire new construction market

Building community has the resources (technical understanding, tools) available to build to net zero stretch code

Building code officials understand where to find technical resources and support for code

**Note: advancement and support merge here in long-term impacts. We could separate out the outcomes, but they would sound very similar. However, we should keep in mind that advancement and support would have different utility actions and evaluations.*

Context

Energy codes are an extremely effective way to increase energy efficiency of buildings
Municipalities want to take action on energy goals in their community
Recent legislation (CEJA) will provide a stretch code as an option for municipalities to adopt

Definitions of Target Markets

Target Market 1 (TM1):

- Jurisdiction/Policy-Making Sector

Target Market 2 (TM2):

- Design and construction industry

Target Market 3 (TM3):

- Enforcement industry