

Stretch Energy Codes & Building Performance Standards

IL SAG Market Transformation Working Group

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Agenda

Project background

Project progress updates

Data collection initial results overview

Next steps

Project Background

Project goal

- Engage with municipalities to adopt and implement stretch energy codes and building performance standards (BPS)
- Develop support programs to help implement
- Develop savings and attribution methodologies that follow market transformation protocols

Utility funders

 ComEd, Nicor Gas, Peoples Gas and North Shore Gas



Project Background

Phase 0 (2018)

 Review of energy codes and utility roles across the country

Phase 1 (2020)

- Outreach to municipalities to understand needs
- Understand the potential for building policies
- Estimate energy savings

Phase 2 (2021-present)

- Work with IL Stakeholder
 Advisory Group Market
 Transformation working group
- Statewide building energy code updates
- Direct engagement with municipalities through taskforce for policy advancement

Advanced Building Energy Efficiency Policy (ABEEP) Task Force Goals



Help innovative municipalities pioneer stretch codes and BPS



Get prepared to act on building energy policies and have the tools to do so

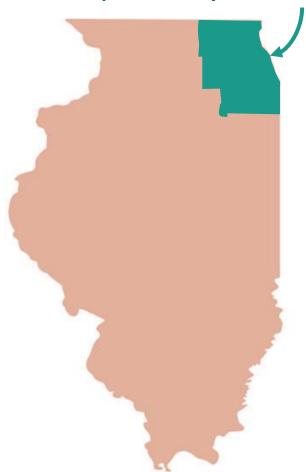


Assist in creation of a roadmap without obligation of adoption



Provide feedback and guidance to utilities on most effective ways utilities can support with compliance and implementation

Metropolitan Mayors Caucus



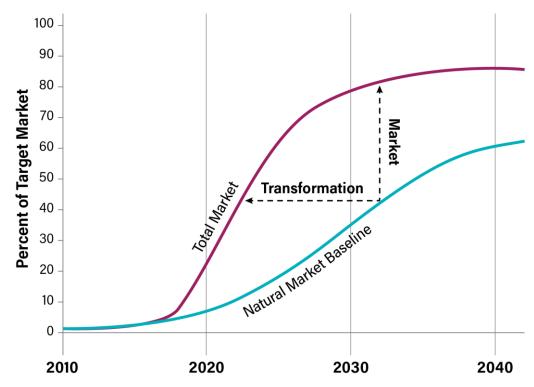
Role of Utility

Support for policy adoption/advancement and policy implementation

- Support can include incentives for builders and property owners, training and technical guides, plan review assistance, compliance support, and technical analysis.
- Implementation support directly impacts likelihood of adoption

Market Transformation vs. Resource Acquisition

- Long-term vision, goal is structural change
- Focus on savings that occur over a longer time horizon, incorporating many levels of engagement



2023 MT Program Supporting Documents

Document	Energy Savings Framework	Program Plan/Logic Model	Evaluation Plan	
Summary of Document	Market Characterization (Historical trends; market projection with NMB; unit sales & energy savings)	Program actions & intent; expected short-term and long- term outcomes; MPI's & measurement	Proposed evaluation research methods and plan – MPI's & ESF	
Document Developer	Program Administrator (utility) with Implementation Contractor	Program Administrator (utility) with Implementation Contractor	Program Evaluator	
Review	Program Evaluator (especially NMB); SAG	Program Evaluator; SAG	Program Administrator (utility) with implementation Contractor; SAG	
Updating Process	Evaluator assesses on-going adequacy of ESF; Change As needed by Program Administrator (utility) Program Administrator (utility) With Implementation Contractor And SAG Evaluator assesses on-going Administrator (utility) Administrator (utility) Implementation Contractor Recommendations by Evaluator		Updated annually by Evaluator; reviewed by Program Administrator (utility) and SAG	

2023 MT Program Supporting Documents

Slipstream & MEEA	Document	Energy Savings Framework	Program Plan/Logic Model	Evaluation Plan	
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	Review	Program Evaluator (especially NMB); SAG	Program Evaluator; SAG	Program Administrator (utility) with implementation Contractor; SAG	-
	Updating Process	Evaluator assesses on-going adequacy of ESF; Change Recommendation reviewed by Program Administrator (utility) with implementation Contractor and SAG	As needed by Program Administrator (utility) with Implementation Contractor with Recommendations by Evaluator	Updated annually by Evaluator; reviewed by Program Administrator (utility) and SAG	

Goal to present documents in 2024 to SAG

2023 Evaluation Approach Updates

Data Collection for Energy Savings Framework (ESF)

- Compiled new construction and existing square feet data by municipality
- Developed energy use intensity for stretch and base codes
- Completing interviews and surveys with municipalities to understand impact of utility influence on adoption
- DOE and PNNL providing projected compliance rates for NMB

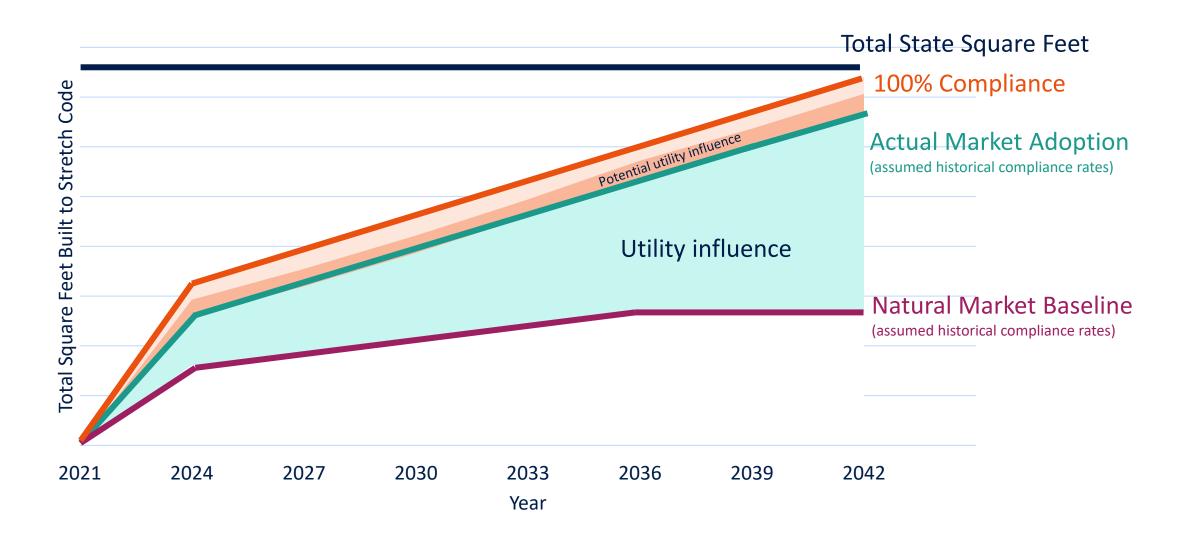


Data collection initial results overview

Key Elements of Natural Market Baseline

- Natural market baseline is measured in terms of total square feet building to stretch code or BPS
- Can be measured at statewide level but feedback from municipalities required to understand what influenced decision to adopt stretch code
- Should be reassessed every 3 to 6 years to ensure the NMB still represents the market

Natural Market Baseline Illustration (not to scale)



Overview of Municipal Data Collection

Data Collection

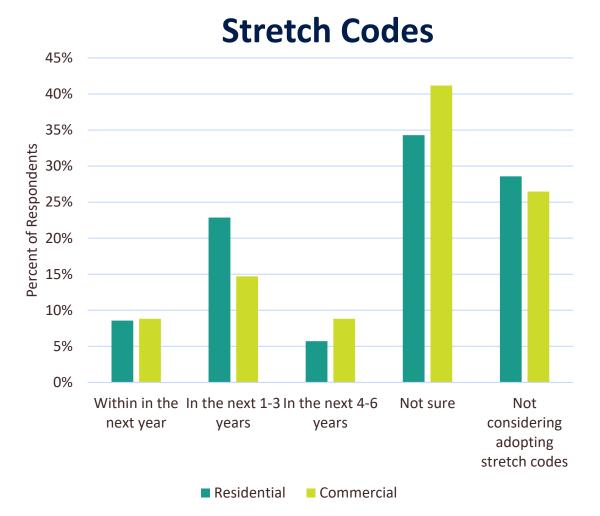
29 municipalities have responded to survey
 Some have more than one person responding per municipality
 Two additional interview responses

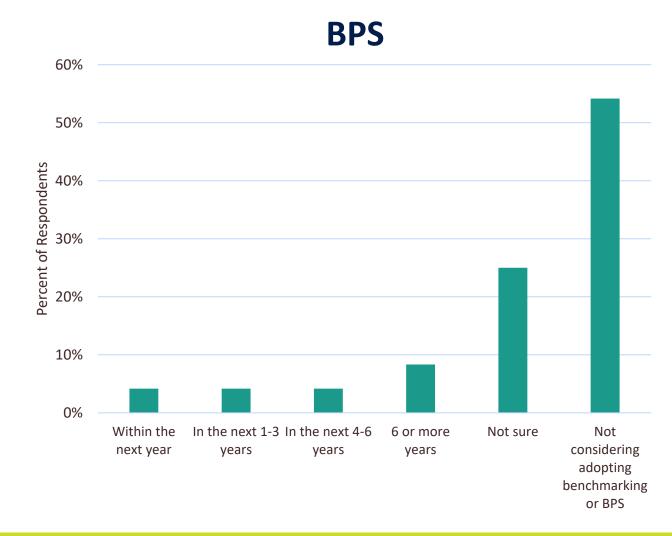
Instrument Development

- Instrument was developed in collaboration with Guidehouse and funding utilities
- Administered through online survey, sent to XX municipalities

Likelihood of Adoption

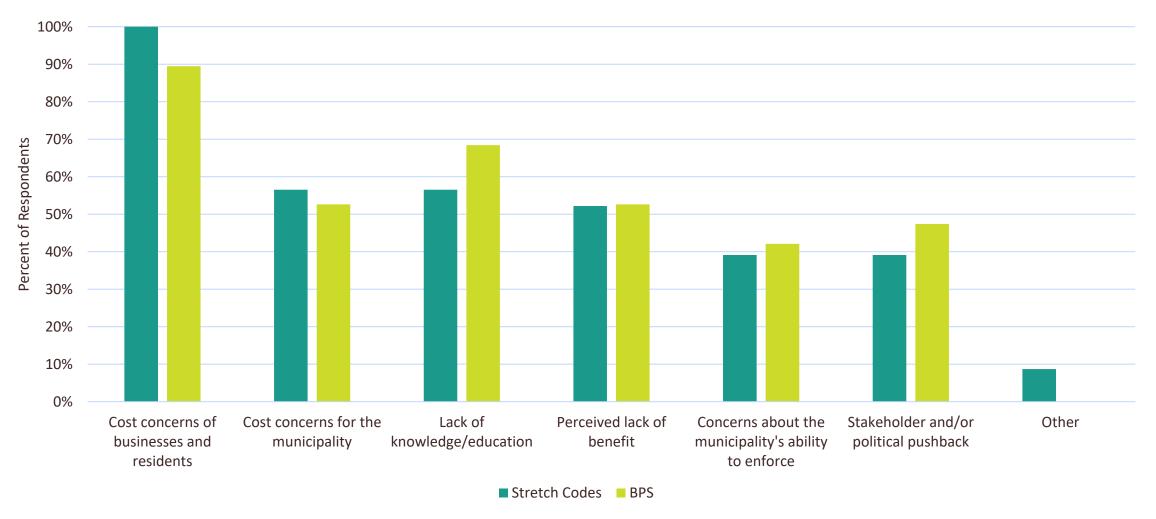
If your municipality is considering adoption, what is the estimated timeline for adoption?





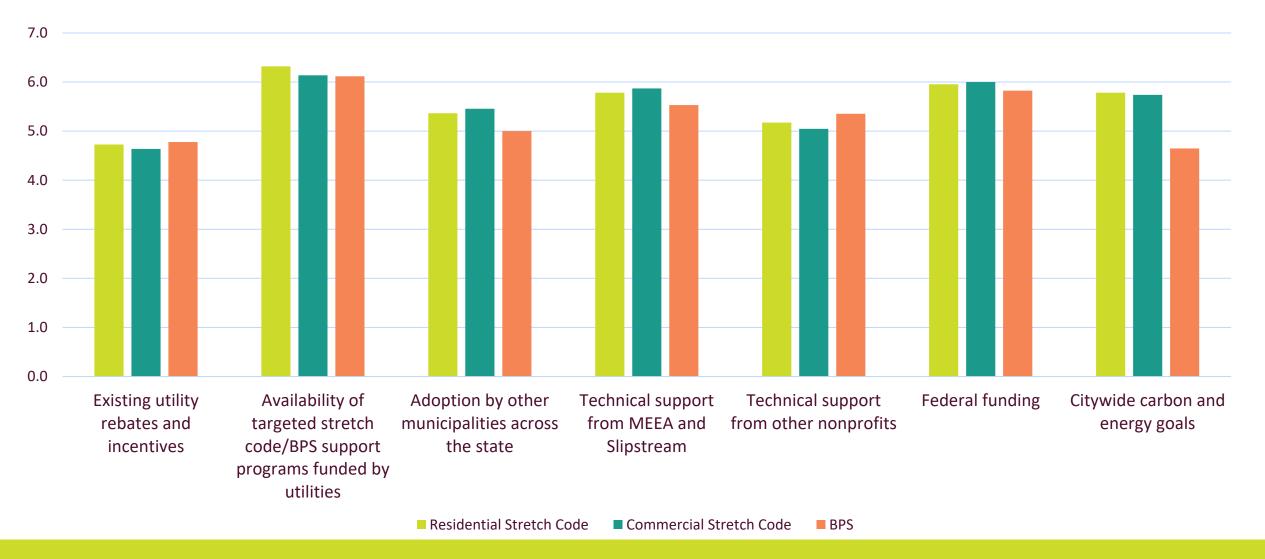
Perceived Barriers

What are the perceived barriers affecting the adoption or consideration of advanced building policy? (select all)



Influences

Rate the influence of the following on your municipality's decision to adopt an advanced building policy (0 to 10)





Next Steps

Next Steps

MT Supporting Document	Timeline
Energy savings framework	Finalizing data collection and NMB calculations in Q4 2023
Program logic model	Nearly complete
Evaluation Plan	Guidehouse drafting plan in Q4 2023

Supporting documents for Stretch Codes will be delivered in early 2024 Supporting documents for BPS will be delivered after Stretch Codes

Slipstream and MEEA contacts



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Appendix

Previous SAG Market Transformation Presentations

March 17, 2021

https://www.ilsag.info/event/wed-march-17-market-transformation-savings-working-group/

May 7, 2021 – Small group

https://www.ilsag.info/event/friday-may-7-mt-code-advancement-small-group-meeting/

July 27, 2021 – Small group

https://www.ilsag.info/event/tuesday-july-27-mt-code-advancement-small-group-meeting/

October 4, 2021

https://www.ilsag.info/event/monday-october-4-market-transformation-savings-working-group-meeting/

April 21, 2022

https://www.ilsag.info/event/thursday-april-21-market-transformation-savings-working-group-meeting/

August 16, 2022

https://www.ilsag.info/event/tuesday-aug-16-market-transformation-savings-working-group-meeting/

May 22, 2023

https://www.ilsag.info/event/monday-may-22-market-transformation-savings-working-group-meeting/